



Proprietà



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Titolo progetto

PROGETTO ESECUTIVO DELLE OPERE DI MANUTENZIONE STRAORDINARIA ED EFFICIENTAMENTO ENERGETICO SU IMPIANTI DI ILLUMINAZIONE PUBBLICA NEL COMUNE DI RUBIERA: VIA PADULI, VIA F.LLI CERVI, PARCHEGGIO VIA DE GASPERI E PARCO ANDREOLI

N. elaborato	Titolo elaborato	Codice progetto
E01	RELAZIONE TECNICA + - VALUTAZIONE RISCHI UNI 11248 - CAPITOLATO TECNICO - PIANO MANUTENZIONE - DI.CO. PROGETTO A LR 19/2003	CR1_07_2019
		Scala ...
N. revisione		Data
REV.0		AGOSTO 2019

Elenco revisioni	REV.0	AGOSTO 2019	PRIMA EMISSIONE

Impresa installatrice

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Tecnico - progettista / timbro e firma



Ing.I. - Per. Ind. LUCA MAZZONI

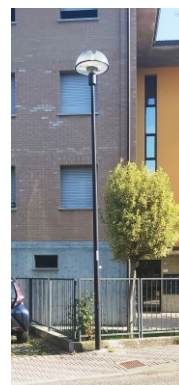
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A) PREMESSA

Il presente progetto riguarda alcuni impianti di illuminazione pubblica del Comune di Rubiera nello specifico: Via Paduli, Via F.lli Cervi, Via De Gasperi (parcheggio e zona fitness) e Parco Andreoli.

Le opere previste riguardano la sostituzione puntuale degli apparecchi illuminanti risultati danneggiati dall'evento atmosferico del 22 Giugno scorso caratterizzato da intense precipitazioni e grandinate di grosse dimensioni. Il danneggiamento ha riguardato nello specifico la rottura dello schermo superiore in policarbonato degli apparecchi illuminanti esistenti del tipo da arredo urbano (tipo ditta AEC Illuminazione modello DIREZIA ovvero tipo AEC Illuminazione modello EVOLUTA). Tale danneggiamento ha compromesso irreparabilmente la tenuta stagna nell'involucro nei confronti della sorgente luminosa interna ed del gruppo di alimentazione rendendo gli impianti non sicuri, soggetti a continui disservizi ed non più in grado di soddisfare adeguati livelli luminosi e sicurezza per la circolazione dei cittadini.



Esempio danneggiamento apparecchi illuminanti Parco Andreoli e Via Paduli

Le vie in oggetto sono state identificate dall'Amministrazione Comunale come le più soggette ai danni dell'evento atmosferico. Con il presente progetto, l'Amministrazione ha inteso quindi procedere ad un intervento di manutenzione straordinaria volto alla sostituzione degli apparecchi interessati con nuovi apparecchi a sorgente led ottenendo al contempo ottenere un miglioramento dal punto di vista energetico e luminoso.

Si precisa che all'interno di una stessa via non tutti gli apparecchi sono risultati danneggiati, nello spirito di voler adottare una medesima soluzione dal punto di vista estetico e di effetto luminoso, si intende sostituire tutti gli apparecchi compresi anche quelli non apparentemente danneggiati e recuperarli presso il magazzino comunale per poi eventualmente riutilizzare quelli ancora funzionanti per sostituzioni puntuali in altre vie del Comune.



L'intervento in oggetto si configura come *riqualificazione/manutenzione straordinaria* così come definito all' art.5 comma 1 della DGR n.1732 del 12 novembre 2015. Considerato che le opere previste riguardano di fatto la sostituzione punto-punto degli apparecchi illuminanti, senza alcuna modifica all'interdistanza e l'altezza dei sostegni, l'intervento si identifica come di *miglioramento della situazione esistente*. Di fatti, vista l'impossibilità oggettiva di ottimizzare le interdistanza dei sostegni, causa presenza accessi carrai ecc..., si accetta sin da ora di ottenere il miglioramento di una o più caratteristiche dell'impianto senza la pretesa di raggiungere il pieno rispetto della direttiva regionale.

Oltre che alla direttiva regionale, il presente progetto si basa sul Piano Regolatore di Illuminazione Comunale (P.R.I.C.) approvato con deliberazione di Consiglio comunale n.2 del 26 febbraio 2018 e precedentemente adottato con delibera di Consiglio comunale n. 22 del 27 aprile 2017.

Sono inoltre rispettati i requisiti riguardanti le zone di protezione dall'inquinamento luminoso: zone di rispetto da osservatori astronomici ovvero parchi naturali e siti della Rete Natura 2000.

Si precisa che l'intervento in oggetto non riguarda in alcun modo modifiche od adeguamenti di tipo elettrico. Non vengono infatti modificati i quadri elettrici e le relative condutture elettriche dorsali esistenti. L'Amministrazione intende rimandare infatti questo tipo di intervento nell'ambito di un progetto di riqualificazione complessiva di tutti gli impianti di illuminazione pubblica presenti sul territorio comunale al momento ancora in fase di studio.

B) DESCRIZIONE DEGLI INTERVENTI IN PROGETTO

Le vie interessate dal presente progetto sono:

- Via Paduli
- Via F.lli Cervi
- Via De Gasperi limitamente alla zona parcheggio ed alla zona fitness presso parco
- Parco Andreoli e relativi vialetti di accesso: da Via Petrarca, da Via Trieste.

Nel seguito l'estratto del censimento impianto illuminazione presente all'interno del PRIC con riferimento ai soli apparecchi oggetto di intervento.

Per ogni punto luce vengono indicate gli attributi caratteristici: numero identificativo, numero codice quadro di riferimento, indirizzo (Via, P.zza, ecc...) di posizionamento, tipologia sostegno (materiale, dimensioni, presenza di bracci, ecc...), tipologia apparecchi presente (marca, modello, quota installazione, tipologia installazione, conformità alla LR, ecc...), tipologia sorgente luminosa.

Via Paduli

codice_punto_luce	codice_quadro	strada	tipologia_sostegno	materiale_sostegno	altezza_sostegno	sbraccio	data_installazione	note	corpo_illuminante_modello	quota_installazione	installazione_conforme	corpo_a_norma	tipo_lampada	potenza_luce
PL0012.006	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5,00	No	0000-00-00		Direzia	5,00		No	Sodio Alta Pressione	100
PL0012.007	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5,00	No	0000-00-00		Direzia	5,00		No	Sodio Alta Pressione	100
PL0012.008	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5,00	No	0000-00-00		Direzia	5,00		No	Sodio Alta Pressione	100
PL0012.009	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5,00	No	0000-00-00		Direzia	5,00		No	Sodio Alta Pressione	100
PL0012.010	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5,00	No	0000-00-00		Direzia	5,00		No	Sodio Alta Pressione	100
PL0012.011	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5,00	No	0000-00-00		Direzia	5,00		No	Sodio Alta Pressione	100
PL0012.012	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5,00	No	0000-00-00		Direzia	5,00		No	Sodio Alta Pressione	100
PL0012.013	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5,00	No	0000-00-00		Direzia	5,00		No	Sodio Alta Pressione	100
PL0012.014	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5,00	No	0000-00-00		Direzia	5,00		No	Sodio Alta Pressione	100
PL0012.015	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5,00	No	0000-00-00		Direzia	5,00		No	Sodio Alta Pressione	100
PL0012.016	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5,00	No	0000-00-00		Direzia	5,00		No	Sodio Alta Pressione	100
PL0012.017	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5,00	No	0000-00-00		Direzia	5,00		No	Sodio Alta Pressione	100
PL0012.018	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5,00	No	0000-00-00		Direzia	5,00		No	Sodio Alta Pressione	100
PL0012.019	QE0012A	Via Paduli	Palo arredo	Acciaio	5,00	No	0000-00-00		Direzia	5,00		No	Sodio Alta	100



codice_punto	codice_quadro	strada	tipologia_sostegno	materiale_sostegno	altezza_sostegno	sbraccio	data_installazione	note	corpo_illuminante_modello	quota_installazione	installazione_confirme	corpo_a_norma	tipo_lampada	potenza_luce
PL0012.020	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.021	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.022	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.023	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.024	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.025	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.026	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.027	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.028	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.029	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.030	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.031	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.032	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.033	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.034	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.035	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.036	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0012.037	QE0012A	Via Paduli	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100

Via F.lli Cervi

codice_punto	codice_quadro	strada	tipologia_sostegno	materiale_sostegno	altezza_sostegno	sbraccio	data_installazione	note	corpo_illuminante_modello	quota_installazione	installazione_confirme	corpo_a_norma	tipo_lampada	potenza_luce
PL0040.029	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.030	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.031	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.032	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.033	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.034	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.035	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.036	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.037	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.038	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.039	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.040	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.041	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.042	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.043	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.044	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.045	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.046	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.047	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.051	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.052	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.053	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.054	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.055	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.056	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.057	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.058	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.059	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.060	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.061	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.062	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.063	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.064	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.065	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.066	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100



PL0040.067	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.068	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.069	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.070	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.071	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.072	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.073	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.074	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.075	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.076	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.077	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.078	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.079	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.080	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.081	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.082	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100
PL0040.083	QE0040A	Via Fratelli Cervi	Palo arredo urbano	Acciaio Verniciato	6.00	No	0000-00-00		Direzia	6.00		No	Sodio Alta Pressione	100

Via De Gasperi – parcheggio

codice_punto_luce	codice_quadro	strada	tipologia_sostegno	materiale_sostegno	altezza_sostegno	sbraccio	data_installazione	note	corpo_illuminante_modello	quota_installazione	installazione_confirme	corpo_a_norma	tipo_lampada	potenza_luce
PL0015.001	SQ0015A	Via Prampolini Camillo	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0015.002	SQ0015A	Via Prampolini Camillo	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0015.003	SQ0015A	Via Prampolini Camillo	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0015.004	SQ0015A	Via Prampolini Camillo	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0015.005	SQ0015A	Via Prampolini Camillo	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0015.006	SQ0015A	Via Prampolini Camillo	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0015.007	SQ0015A	Via Prampolini Camillo	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0015.008	SQ0015A	Via Prampolini Camillo	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0015.009	SQ0015A	Via Prampolini Camillo	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0015.010	SQ0015A	Via Prampolini Camillo	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0015.011	SQ0015A	Via Prampolini Camillo	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0015.012	SQ0015A	Via Prampolini Camillo	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100
PL0015.013	SQ0015A	Via Prampolini Camillo	Palo arredo urbano	Acciaio Verniciato	5.00	No	0000-00-00		Direzia	5.00		No	Sodio Alta Pressione	100

Parco Andreoli + Vialeto Via Petrarca + Vialeto Via Trieste

codice_punto_luce	codice_quadro	strada	tipologia_sostegno	materiale_sostegno	altezza_sostegno	sbraccio	data_installazione	note	corpo_illuminante_modello	quota_installazione	installazione_confirme	corpo_a_norma	tipo_lampada	potenza_luce
PL0063.001	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.002	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.003	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.004	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.005	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.006	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.007	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.008	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.009	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.010	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.011	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.012	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.013	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.014	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.015	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.016	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.017	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.018	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.019	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.020	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100



PL0063.021	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.022	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.023	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.024	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.025	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.026	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.027	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.028	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.029	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.030	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.031	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.032	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.033	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Verniciato	3.00	No	0000-00-00		Evoluta	3.00		No	Sodio Alta Pressione	100
PL0063.034	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Zincato	6.00	No	0000-00-00		Evoluta	6.00		No	Sodio Alta Pressione	100
PL0063.035	QE0063A	Via Terraglio	Palo arredo urbano	Acciaio Zincato	6.00	No	0000-00-00		Evoluta	6.00		No	Sodio Alta Pressione	100

Come indicato in premessa, è prevista la sostituzione sistematica degli apparecchi illuminanti punto-punto con nuovi apparecchi a sorgente led con caratteristiche che rispondo a pieno ai requisiti della Legge Regionale contro l'inquinamento luminoso e sua Direttiva applicativa (art. 4 comma 1 lett. a) e art. 4 comma 1 lett. b) punto I.

Gli apparecchi in oggetto sono in oltre rispondenti ai criteri CAM 2017 in particolare:

- ILLUMINAZIONE PUBBLICA (fornitura e progettazione) Acquisizione di sorgenti luminose per illuminazione pubblica, l'acquisizione di apparecchi per illuminazione pubblica, l'affidamento del servizio di progettazione di impianti per illuminazione pubblica (approvato con DM 27 settembre 2017, in G.U. n 244 del 18 ottobre 2017)
- ILLUMINAZIONE PUBBLICA (servizio) Servizio di illuminazione pubblica (approvato con DM 28 marzo 2018, in GU n. 98 del 28 aprile 2018)

Sono previste le seguenti tipologie di apparecchi illuminanti (sono indicati diversi tipi di apparecchi a seconda dei vari tipi di tratti stradali così come individuati nelle tavole di progetto).

Via Paduli – Tratto A								
Marca	Modello	Ottica	Flusso luminoso apparecchio	Potenza apparecchio	Corrente pilotaggio	Tipo regolazione	Temperatura Colore	Classe
Aec Illuminazione	ECORAY TP	S05	4260lm	40W	700mA	DA (mezzanotte virtuale)	3000K	II

Via Paduli – Tratto B								
Marca	Modello	Ottica	Flusso luminoso apparecchio	Potenza apparecchio	Corrente pilotaggio	Tipo regolazione	Temperatura Colore	Classe
Aec Illuminazione	ECORAY TP	S05	4260lm	40W	700mA	DA (mezzanotte virtuale)	3000K	II

Via F.lli Cervi – Tratto A								
Marca	Modello	Ottica	Flusso luminoso apparecchio	Potenza apparecchio	Corrente pilotaggio	Tipo regolazione	Temperatura Colore	Classe
Aec Illuminazione	ECORAY TP	STE-M	5710lm	52W	700mA	DA (mezzanotte virtuale)	3000K	II

Via F.lli Cervi – Tratto B								
Marca	Modello	Ottica	Flusso luminoso apparecchio	Potenza apparecchio	Corrente pilotaggio	Tipo regolazione	Temperatura Colore	Classe
Aec Illuminazione	ECORAY TP	S05	4260lm	40W	700mA	DA (mezzanotte virtuale)	3000K	II

Via F.lli Cervi – Tratto C								
Marca	Modello	Ottica	Flusso luminoso apparecchio	Potenza apparecchio	Corrente pilotaggio	Tipo regolazione	Temperatura Colore	Classe
Aec Illuminazione	ECORAY TP	STE-M	5710lm	52W	700mA	DA (mezzanotte virtuale)	3000K	II



Via F.lli Cervi – Tratto D								
Marca	Modello	Ottica	Flusso luminoso apparecchio	Potenza apparecchio	Corrente pilotaggio	Tipo regolazione	Temperatura Colore	Classe
Aec Illuminazione	ECORAY TP	STW	4510lm	39W	525mA	DA (mezzanotte virtuale)	3000K	II

Via De Gasperi – Parcheggio								
Marca	Modello	Ottica	Flusso luminoso apparecchio	Potenza apparecchio	Corrente pilotaggio	Tipo regolazione	Temperatura Colore	Classe
Aec Illuminazione	ECORAY TP	S	4260lm	40W	700mA	DA (mezzanotte virtuale)	3000K	II

Via De Gasperi – Zona fitness								
Marca	Modello	Ottica	Flusso luminoso apparecchio	Potenza apparecchio	Corrente pilotaggio	Tipo regolazione	Temperatura Colore	Classe
Aec Illuminazione	ECORAY TP	S	4260lm	40W	700mA	DA (mezzanotte virtuale)	3000K	II

Parco Andreoli – Parco								
Marca	Modello	Ottica	Flusso luminoso apparecchio	Potenza apparecchio	Corrente pilotaggio	Tipo regolazione	Temperatura Colore	Classe
Aec Illuminazione	ECORAY TP	S	4260W	40W	700mA	DA (mezzanotte virtuale)	3000K	II

Parco Andreoli – Vialeto accesso da Via Petrarca								
Marca	Modello	Ottica	Flusso luminoso apparecchio	Potenza apparecchio	Corrente pilotaggio	Tipo regolazione	Temperatura Colore	Classe
Aec Illuminazione	ECORAY TP	STU-M	2140lm	22W	700mA	DA (mezzanotte virtuale)	3000K	II

Parco Andreoli – Vialeto accesso da Via Trieste								
Marca	Modello	Ottica	Flusso luminoso apparecchio	Potenza apparecchio	Corrente pilotaggio	Tipo regolazione	Temperatura Colore	Classe
Aec Illuminazione	ECORAY TP	STU-M	2140lm	22W	700mA	DA (mezzanotte virtuale)	3000K	II

Si allegano le relative schede tecniche e curve fotometriche tabellari.

Ciascun impianto risulta derivato dal proprio quadro di riferimento così come individuato nel censimento impianto allegato al PRIC. Gli impianti esistenti risultano realizzati in classe I con impianto di messa a terra dedicato. In occasione di questo intervento, si intende trasformare l'impianto da classe I a classe II proponendo, unitamente ad apparecchi illuminanti a doppio isolamento, anche la sostituzione delle morsettiera palo esistenti ed i tratti di alimentazione verso i relativi apparecchi con idonei componenti e condutture in classe di isolamento 2.

Per gli impianto in oggetto non risulta esistente alcun quadro di regolazione del flusso luminoso, il ciclo di accensione-spegnimento è gestito a mezzo di orologio tipo astronomico esistente presso i vari quadri elettrici. La regolazione del flusso luminoso sarà attuata a mezzo dall'alimentatore DA (a mezzanotte virtuale) presente all'interno di ciascun apparecchio illuminante.

C) **REQUISITI ILLUMINOTECNICI – VALUTAZIONE DEI RISCHI**

Requisiti illuminotecnici:

Come previsto dalla norma UNI 11248 per un dato impianto sono da definire diverse categorie illuminotecniche:

- categoria illuminotecnica di riferimento (dipende dalla classificazione delle strade);



- categoria illuminotecnica di progetto e di esercizio (dipendono dai parametri di influenza e dalla valutazione dei rischi eseguita dal progettista).

Secondo quanto definito dal PRIC, in base al codice stradale, al piano urbano del traffico e la vecchia UNI10439, le categorie illuminotecniche di ingresso sono le seguenti:

Denominazione	Classificazione	Categorie illuminotecnica ingresso
Via Paduli	F – strada urbana locale	M4
Via F.lli Cervi	F- strada urbana locale intenzionale	M3
Parcheggio Via De Gasperi	Fbis	P3
Parco Andreoli	Fbis	P3

Compito del progettista è di determinare la categoria illuminotecnica di progetto attraverso una valutazione dei rischi, modificando la categoria illuminotecnica di ingresso in base all'effettivo valore dei parametri di influenza.

Nel seguito è indicato il livello base dei parametri di influenza per ogni tipo di strada:

Parametri di influenza	Tipo di strada							
	A1	A2	B	C	D	E	F	Fbis
Flusso di traffico	elevato							
Complessità campo visivo	elevata	normale	-				normale	-
Zone di conflitto	-		non cospicue					-
Dispositivi rallentatori	-					assenti		-
Rischio aggressione	-					normale		-
Pendenza media	-							≤ 5%
Livello luminoso dell'ambiente	-							ambiente urbano
Pedoni	-							non ammessi

Compito del progettista è prendere in considerazione i parametri di influenza base e valutarne il reale livello, confrontandolo con quello indicato come livello base. In caso di differenza, applicherà la relativa riduzione/aumento della categoria illuminotecnica proposta dalla norma.

Possibile variazione di categoria illuminotecnica in relazione al reale livello dei parametri di influenza.

Parametri di influenza	Reale livello	Variazione di livello
Flusso di traffico	< 50% della portata di servizio	-1
	< 25% della portata di servizio	-2
Complessità campo visivo	elevata	+1
Zone di conflitto	cospicue	+1
Zone di conflitto	assenti	-1
Dispositivi rallentatori	presenti	-1
Rischio aggressione	elevato	+1
Pendenza media	elevata cioè > 5%	+1
Livello luminoso dell'ambiente	elevato	-1
Pedoni	ammessi	+1



Ulteriori parametri di influenza da valutare caso per caso.

Parametri di influenza	Reale livello	Variazione di livello
Svincoli e/o intersezioni a raso	presenti	+1
Abbagliamento	Ti < 8%, indice di intensità luminosa G6 e indice di abbagliamento D6	-1
Segnaletica	cospicua nelle zone di conflitto	-1
Possibilità di passaggi pedonali	-	da valutare
Uso di sorgenti a luce bianca o moduli led	rapporto S/P elevato e campo di adattamento visivo mesopico	da valutare

Si intende procedere alla valutazione del rischio per le zone di studio relative alle sole carreggiate: nel seguito sono indicati i livelli reali dei parametri di influenza e la corrispondente variazione di categoria illuminotecnica.

Si precisa che non è oggetto della presente trattazione lo studio dell'illuminazione dedicata agli attraversamenti pedonali per i quali occorre una valutazione dedicata.

Via Paduli			
Parametri di influenza	Livello base	Reale livello	Variazione di livello
Flusso di traffico	elevato	< 50% della portata di servizio	-1
Complessità campo visivo	normale	normale	0
Zone di conflitto	non cospicue	assenti	-1
Dispositivi rallentatori	assenti	assenti	0
Rischio aggressione	normale	normale	0
Pendenza media	-	-	0
Livello luminoso dell'ambiente	-	-	0
Pedoni	-	-	0
Svincoli e/o intersezioni a raso	-	presenti	+1
Abbagliamento	-	-	0
Segnaletica	-	-	0
Possibilità di passaggi pedonali	-	-	0
Uso di sorgenti a luce bianca o moduli led	-	-	0
Variazione complessiva			-1
Categoria illuminotecnica di ingresso			M4
Categoria illuminotecnica di progetto			M5
Nota:			
Come ulteriore parametro di influenza si aggiunge la presente considerazione generale: indipendentemente dalla categoria illuminotecnica di progetto sopra indicata derivante dall'analisi del rischio, è intenzione dell'Amministrazione Comunale realizzare il presente intervento conseguendo sia un risparmio energetico ma al contempo ottenere livelli di luminanza/illuminamento superiori rispetto a quelli dello stato attuale. Visti i calcoli illuminotecnici dello stato attuale, per la presente zona di studio si stabilisce di fare riferimento alla categoria illuminotecnica di progetto / finale /di esercizio M4.			

Via F.lli Cervi			
Parametri di influenza	Livello base	Reale livello	Variazione di livello
Flusso di traffico	elevato	< 50% della portata di servizio	-1
Complessità campo visivo	normale	normale	0
Zone di conflitto	non cospicue	cospicue	+1
Dispositivi rallentatori	assenti	assenti	0
Rischio aggressione	normale	normale	0
Pendenza media	-	-	0
Livello luminoso	-	-	0



dell'ambiente			
Pedoni	-	-	0
Svincoli e/o intersezioni a raso	-	presenti	+1
Abbagliamento	-	-	0
Segnaletica	-	cospicua	-1
Possibilità di passaggi pedonali	-	-	0
Uso di sorgenti a luce bianca o moduli led	-	-	0
Variazione complessiva			0
Categoria illuminotecnica di ingresso			M3
Categoria illuminotecnica di progetto			M3

Nota:

Come ulteriore parametro di influenza si aggiunge la presente considerazione generale: indipendentemente dalla categoria illuminotecnica di progetto sopra indicata derivante dall'analisi del rischio, è intenzione dell'Amministrazione Comunale realizzare il presente intervento conseguendo sia un risparmio energetico ma al contempo ottenere livelli di luminanza/illuminamento superiori rispetto a quelli dello stato attuale. Visti i calcoli illuminotecnici dello stato attuale, per la presente zona di studio si stabilisce di fare riferimento alla categoria illuminotecnica di progetto / finale / di esercizio M3.

Alle categorie illuminotecniche di cui sopra corrispondono i seguenti requisiti illuminotecnici UNI EN 13201:2015:

Classe	Luminanza della carreggiata in condizioni di manto asciutto			Abbagliamento debilitante TI	Rapporto di prossimità
	L_{av} [cd/P2]	U_o (U_{ow})	U_i	f_{TI} [%]	EIR
M1	2,00	0.40 (0,15)	0.70	10	0,35
M2	1.50	0.40 (0,15)	0.70	10	0,35
M3	1,00	0.40 (0,15)	0.60	15	0,30
M4	0.75	0.40 (0,15)	0.60	15	0,30
M5	0.50	0.35 (0,15)	0.40	15	0,30
M6	0.30	0.35 (0,15)	0.40	20	0,30

Come accennato, le zone di studio considerate nel presente progetto corrispondono alle sole carreggiate. Esistono però ai lati delle carreggiate ulteriori zona: marciapiedi per Via Paduli e pista ciclabile per Via F.lli Cervi. Per le zone adiacenti la norma stabilisce di evitare differenze superiori a due categorie illuminotecniche comparabili. Nel seguito viene indicata la tabella delle categorie illuminotecniche comparabili:

CLASSI	TABELLA DI RIFERIMENTO								
		M 1	M 2	M 3	M 4	M 5	M 6		
CLASSE DI RIFERIMENTO TRAFFICO MOTORIZZATO (LUMINANZA - cd/m ²)									
ILLUMINAMENTI ORIZZONTALI	C 0	C 1	C 2	C 3	C 4	C 5			
ILLUMINAMENTI ORIZZONTALI Pedoni e ciclisti				P 1	P 2	P 3	P 4	P 5	P 6
ILLUMINAMENTI SEMICILINDRICI	SC 1	SC 2	SC 3	SC 4	SC 5	SC 6	SC 7	SC 8	SC 9
ILLUMINAMENTI VERTICALI	EV 1	EV 2	EV 3	EV 4	EV 5	EV 6			

Con riferimento ai marciapiedi di Via Paduli ed alla pista ciclabile di Via F.lli Cervi il piano della luce PRIC stabilisce di riferirsi alla categoria illuminotecnica P3.

Anche per i parcheggi di Via De Gasperi con annessa zona fitness, unitamente al parco Andreoli il piano della luce PRIC stabilisce di riferirsi alla categoria illuminotecnica P3.



Classe	Illuminamento orizzontale		Requisiti supplementari		TI	Classe	Illuminamento semiserico	
	Illuminamento orizzontale	Illuminamento orizzontale minimo	Illuminamento verticale minimo	Illuminamento semicilindrico minimo			Illuminamento semiserico	Uniformità generale
	$E_{h,av}$ [lx]	$E_{h,min}$ [lx]	$E_{v,min}$ [lx]	$E_{sc,min}$ [lx]			$E_{s,av}$ [lx]	U_0
P1	15,0	3,00	5,0	5,0	20	HS1	5,00	0,15
P2	10,0	2,00	3,0	2,0	25	HS2	2,50	0,15
P3	7,50	1,50	2,5	1,5	25	HS3	1,00	0,15
P4	5,00	1,00	1,5	1,0	30	HS4		
P5	3,00	0,60	1,0	0,6	30			
P6	2,00	0,40	0,6	0,2	35			

Sostituiscono le classi S e A della EN 13201-2:2003

Come per le carreggiate di cui sopra, vale la seguente considerazione generale: indipendentemente dalla categoria illuminotecnica di progetto indicata nel PRIC è intenzione dell'Amministrazione Comunale realizzare il presente intervento conseguendo sia un risparmio energetico ma al contempo ottenere livelli di luminanza/illuminamento superiori rispetto a quelli dello stato attuale. Visti i calcoli illuminotecnici dello stato attuale, vista la tabella delle categorie illuminotecniche comparabili, considerato inoltre non trascurabile il parametro di influenza del rischio di aggressione, si stabilisce per il parcheggio di Via De Gasperi e per il parco Andreoli di fare riferimento alla categoria illuminotecnica di progetto / finale /di esercizio P2.

Caratteristiche delle pavimentazioni stradali considerate nei calcoli:

- Classe: C2
- Coefficiente medio di luminanza: 0,07
- Fattore di specularità: 0,97
- Gamma del fattore di specularità: $S1 > 0,4$

Il rispetto della L.R. 19/2003 e successive modifiche di tale legge è assicurato in quanto:

- l'impianto sarà dotato di sorgenti luminose/moduli Led con temperatura di colore correlata CCT \leq 3000K ed efficienza uguale o superiore alla lampade al sodio alta pressione;
- saranno utilizzati apparecchi illuminanti aventi un'intensità massima di 0 candele per 1.000 lumen a 90° e oltre (apparecchi di tipo cut-off);
- saranno utilizzati apparecchi con classe di sicurezza fotobiologica RG0 (esente da rischi);
- saranno utilizzati apparecchi con indice IPEA corrispondente alla classe C o superiori; l'impianto avrà un indice IPEI corrispondente alla classe B o superiore; trattandosi di intervento di miglioramento l'indice IPEA e IPEI post-intervento sarà necessariamente superiore ai valori pre-intervento.
- verranno rispettati i parametri illuminotecnici riferimento della categoria assegnata con una tolleranza massima del +20%.
- saranno utilizzati dispositivi in grado di ridurre di almeno il 30% la potenza impiegata dall'impianto (nel caso specifico gli apparecchi saranno equipaggiati di alimentatori a regolazione automatica del flusso luminoso tipo DIM-AUTO o similare);
- l'impianto verrà comandato a mezzo di orologio astronomico che preveda orari di accensione e spegnimento con ritardo massimo all'accensione di 20 minuti ed un anticipo massimo allo spegnimento di 20 minuti.

Si allega al progetto idonea dichiarazione di rispondenza del progetto alla Legge Regionale 19/2003 ed alla direttiva applicativa.

Sarà onere della ditta installatrice dichiarare, a fine lavori, che l'impianto è realizzato in conformità alla Legge Regionale; a tal proposito dovrà fornire la certificazione di conformità alla L.R. 19/2003 degli apparecchi illuminanti e le relative curve fotometriche.

Calcolo dell'IPEA (indice parametrizzato di efficienza dell'apparecchio)

Vedi schede tecniche allegate.

Calcolo dell'IPEI (indice parametrizzato di efficienza dell'impianto)

Vedi calcoli illuminotecnici allegate.

Valutazione energetica ai sensi della EN 13201-5:2015

All'interno dei calcoli illuminotecnici è presente la valutazione energetica ai sensi della EN 13201-5 con il confronto dei fattori Dp (indicatore di densità di potenza) e De (indicatore di densità di consumo annale di energia) nelle condizioni di apparecchi senza/e con sistema di regolazione.

C) MANUTENZIONE

I calcoli illuminotecnici allegate sono stati eseguiti considerando un fattore di manutenzione pari a 0,8. Una volta terminati i lavori, il proprietario o gestore avranno l'onere di mantenere in efficienza e sicurezza l'impianto secondo quanto già previsto nel piano di manutenzione degli impianti di illuminazione pubblica allegato al PRIC.

Nel seguito qualche indicazione in merito alla periodicità dei più tipici controlli ed interventi necessari:

Controlli

Descrizione	Tipologia	Frequenza
Verifica a vista della funzionalità degli impianti, della integrità dei sostegni, del funzionamento delle lampade	Controllo a vista	Ogni due mesi
Analisi dei consumi e dei transitori, della programmazione con apposita apparecchiature che rilevi: consumi, programmazione come da esigenze, stato e risposta degli interruttori, verifiche elettriche come da norma CEI, verifica del serraggio dei morsetti nei pali e nei quadri.	Ispezione	Ogni due anni
Controllo dello stato generale e dell'integrità dei pali per l'illuminazione	Controllo a vista	Ogni due anni

Interventi

Descrizione	Frequenza
Verifica a vista della funzionalità dell'impianto con prove sugli elementi come accensione/spengimento, riscaldamento delle parti, efficienza dell'impianto di messa a terra (negli impianti di classe I), efficienza dell'interruttore crepuscolare (se previsto), funzionalità e integrità degli involucri dei quadri, controllo della regolare accensione di tutti gli apparecchi illuminanti	Ogni quattro mesi
Pulizia dei vetri e dei riflettori al fine di garantire la migliore illuminazione nel rispetto delle normative illuminotecniche vigenti. Stato del palo. Verifica serraggio dei morsetti all'interno della morsettiera. Verifica dei giunti all'interno dei pozzetti.	Ogni due anni
Per tutte le lampade ad esclusione delle sorgenti led. Sostituzione delle lampade e dei relativi elementi accessori secondo la durata di vita media delle lampade. Nel caso delle lampade a scarica si prevede una durata di vita media pari a 16.000h sottoposta ad un tempo di accensione annuale stimabile in circa 4.200h.	Ogni 4 anni
Sostituzione dei pali e dei relativi elementi accessori secondo la durata di vita media fornita dal produttore. Nel caso di eventi eccezionali (temporali, incidenti stradali, terremoti, allagamenti, ecc...) verificare la stabilità dei pali per evitare danni a cose o persone.	A guasto



c) CAPITOLATO TECNICO - PRESCRIZIONI TECNICHE GENERALI

Finalità delle prescrizioni tecniche

Nei paragrafi seguenti sono specificate le modalità e le caratteristiche tecniche secondo le quali l'Appaltatore è impegnato ad eseguire le opere ed a condurre i lavori, in aggiunta od a maggior precisazione di quelle già indicate negli altri elaborati di progetto.

Qualità e provenienza dei materiali (norme generali)

I materiali occorrenti per i lavori di cui all'appalto, dovranno corrispondere, come caratteristiche, a quanto stabilito da Leggi e Regolamenti ufficiali vigenti in materia e a quanto stabilito nel presente documento e nelle descrizioni dell'elenco prezzi (qualora presente). In mancanza di particolari prescrizioni, dovranno essere della migliore qualità e dovranno presentare tutte le qualità di solidità, di durata, di isolamento e di buon funzionamento; quindi, tra l'altro, dovranno essere tali da resistere alle azioni meccaniche, corrosive, termiche o dovute all'umidità alle quali possono essere esposti durante l'esercizio, ed essere dotati del marchio qualità IMQ rilasciato dall'Istituto Nazionale del Marchio di Qualità, ove previsto o da altri certificazioni equivalenti (D.M. 22/01/2008 n.37). Dovranno provenire dalle località e dalle fabbriche che l'impresa riterrà di sua convenienza, purché, ad insindacabile giudizio della D.L., siano riconosciuti della migliore qualità e specie e rispondano ai requisiti indicati nei successivi articoli e nell'elenco prezzi (qualora presente).

L'appaltatore notificherà però in tempo utile la provenienza dei materiali stessi alla D.L., la quale avrà la facoltà di escludere le provenienze che non ritenesse di proprio gradimento. Tutti i materiali dovranno, in ogni caso, essere sottoposti, prima del loro impiego, all'esame della D.L., affinché essi siano riconosciuti idonei e dichiarati accettabili. Il personale della D.L. è autorizzato ad effettuare in qualsiasi momento gli opportuni accertamenti, visite, ispezioni, prove e controlli. Se la D.L., a proprio esclusivo giudizio, rifiuterà il consenso per l'impiego di qualche partita di materiale già approvvigionata dall'Appaltatore, quest'ultimo dovrà allontanare subito dal cantiere la partita scartata e provvedere alla sua sostituzione con altra di gradimento della D.L., nel più breve tempo possibile e senza avanzare pretese e compensi od indennizzi. La D.L. provvederà direttamente, a spese dell'Appaltatore, alla rimozione di tali partite qualora lo stesso non vi abbia provveduto in tempo utile. L'accettazione dei materiali a parte della D.L. non esonera l'Appaltatore dalle responsabilità che gli competono per la buona riuscita degli impianti.

Esecuzione dei lavori

L'esecuzione di tutti i lavori sia a misura che a corpo verrà condotta con la massima precisione conformemente agli elaborati tecnici ed alle prescrizioni, nonché alle disposizioni che verranno all'atto esecutivo volta per volta impartite dalla D.L. L'assuntore ha l'obbligo di applicare tutte le buone norme e le migliori pratiche della tecnica costruttiva; uniformarsi a sua cura e spese a tutte le prescrizioni di legge e disposizioni dei regolamenti comunali in materia di esecuzione di lavori e polizia urbana ed in particolare a quelle contemplanti la prevenzione degli infortuni, in vigore all'atto dell'esecuzione dei lavori. L'appaltatore è contrattualmente responsabile della perfetta rispondenza del tracciato, delle varie dimensioni delle opere, ai tipi di progetto ed alle indicazioni impartite con ordine di servizio per modo che dovrà a sue spese demolire e ricostruire quanto risultasse errato.

Corrispondenza dei lavori alle norme e prescrizioni vigenti

I lavori, oggetto del presente documento, devono corrispondere alle prescrizioni vigenti alla data di esecuzione delle opere. In particolare dovranno essere rispettate le seguenti norme:

- D.M. 21 marzo 1988 in supplemento ordinario G.U. n.79 del 5 aprile 1988 "Norme per l'esecuzione e l'esercizio delle linee elettriche aeree esterne".
- CEI 64-8/7 "sez. 714: Impianti di illuminazione situati all'esterno";



- Norma CEI 34-33 fascicolo n. 803 del 15 dicembre 1986 "Apparecchi per illuminazione stradale".
- Norma UNI-EN40 "Pali per illuminazione".
- Legge Regionale Emilia Romagna n.19 del settembre 2003 riduzione inquinamento luminoso e contenimento energetico.
- Determina Regionale n.14096 del 12-10-2006 Circolare esplicativa a L.R. n.19 /2003 Emilia Romagna
- Circolare n.14096 del 12 ottobre del 2006;
- DRG n. 1688 del 18 Novembre 2013;
- DRG n. 1732 del 12 Novembre 2015;
- CEI 11-4: pali per linee aeree;
- Codice della Strada;
- UNI 1317;
- UNI 10819;
- UNI 10439 (abrogata)
- UNI 11248 (2016): illuminazione stradale: selezione delle categorie illuminotecniche;
- UNI EN 13201-2-3-4-5 (2015): illuminazione stradale;
- Norma CEI 11-17 "Modalità di posa di cavi interrati".
- Norma CEI 23-29 fascicolo n. 1260 del 1 novembre 1989 "Cavidotti in materiale plastico rigido".
- D.M. 24 novembre 1984 "Parallelismi ed incroci tra cavi di energia e metanodotti; norme di sicurezza antincendio per il trasporto, la distribuzione, l'accumulo e l'utilizzazione del gas naturale con densità non superiore a 0,8".
- Norma CEI 11-8 "Norme per gli impianti di messa a terra".
- Legge n. 186 del 1 marzo 1968.
- D.M. 22-01-2008 n. 37. .
- D.Lgs. 09. Aprile 2008, n.81 testo Unico sulla sicurezza del lavoro
- D.Lgs. 14 Agosto 1996, n. 494 e D.Lgs 528/99 (494 bis) sulle " Prescrizioni minime di sicurezza e di salute da attuare nei cantieri mobili ".
- Prescrizioni e raccomandazioni dell'Ente distributore di energia elettrica (ENEL) e della società italiana per l'esercizio telefonico.
- Prescrizioni e raccomandazioni proprietari delle strade (COMUNE, PROVINCIA, ecc...).

Cavidotti, pozzetti, blocchi di fondazione e pali di sostegno

a) Cavidotti

Nell'esecuzione dei cavidotti saranno tenute le caratteristiche dimensionali e costruttive, nonché i percorsi, indicati nei disegni di progetto. Saranno inoltre rispettate le seguenti prescrizioni:

- ove necessario, il taglio del tappetino bituminoso e dell'eventuale sottofondo in agglomerato dovrà avvenire mediante l'impiego di un tagliafalco munito di martello idraulico con vanghetta. Il taglio avrà una profondità minima di 25cm e gli spazi del manto stradale non tagliato non dovranno superare in lunghezza il 50% del taglio effettuato con la vanghetta idraulica;
- esecuzione dello scavo in trincea, con le dimensioni indicate;
- fornitura e posa, nel numero stabilito dal disegno, di tubazioni flessibili PVC doppia parete a sezione circolare, con diametro esterno di 63-110mm, per il passaggio dei cavi di energia;
- la posa delle tubazioni in plastica verrà eseguita mediante l'impiego di selle di supporto in materiale plastico a uno od a due impronte per tubi del diametro di 110 mm. Detti elementi saranno posati ad una interdistanza massima di 1,5m, al fine di garantire il sollevamento dei tubi dal fondo dello scavo ed assicurare in tal modo il completo conglobamento dello stesso nel cassetto di calcestruzzo.



All'interno delle tubazioni dovrà essere introdotto un filo pilota in nylon per il successivo traino dei cavi elettrici;

- formazione di cassonetto in calcestruzzo dosato a 250Kg di cemento tipo 325 per metro cubo di impasto, a protezione delle tubazioni in plastica; il calcestruzzo sarà superiormente liscio in modo che venga impedito il ristagno dell'acqua;
- il riempimento dello scavo dovrà effettuarsi con misto di ghiaietto e polvere di frantoio, sulla base delle indicazioni fornite dai tecnici comunali. Particolare cura dovrà porsi nell'operazione di costipamento da effettuarsi con mezzi meccanici; l'operazione di riempimento dovrà avvenire dopo almeno 6 ore dal termine del getto di calcestruzzo; trasporto alla discarica del materiale accedente.

Durante la fase di scavo dei cavidotti, dei blocchi, dei pozzetti, ecc... dovranno essere approntati tutti i ripari necessari per evitare incidenti ed infortuni a persone, animali o cose per effetto di scavi aperti non protetti. La terra o gli altri materiali provenienti dal disfacimento degli scavi delle pavimentazioni e dei sottofondi devono essere trasportati alle scariche pubbliche. L'Appaltatore deve rispondere nei riguardi del Comune o di altri enti interessati, a norma dei regolamenti e dei Capitolati vigenti, degli eventuali cedimenti che si dovessero verificare in prosieguo di tempo a causa del cedimento del fondo ed alla manutenzione del reinterro stesso, fino a benessere dell'ente interessato o fino a regolare consegna ad altre ditte per l'esecuzione dei ripristini. Durante le ore notturne la segnalazione di scavo aperto o di presenza di cumulo di materiali di risulta o altro materiale sul sedime stradale, dovrà essere di tipo luminoso a sorgente elettrica, tale da evidenziare il pericolo esistente per il transito pedonale e veicolare. Nessuna giustificazione potrà essere adottata dall'Appaltatore per lo spegnimento di dette luci di segnalazione durante la notte anche se causato da precipitazioni meteoriche. Tutti i ripari (cavalletti, transenne, ecc...) dovranno riportare il nome della Ditta appaltatrice dei lavori, il suo indirizzo e numero telefonico. L'inadempienza delle prescrizioni sopra indicate può determinare sia la sospensione dei lavori, sia la risoluzione del contratto qualora l'Appaltatore risulti recidivo per fatti analoghi già accaduti nel presente appalto od anche in appalti precedenti. Il reinterro di tutti gli scavi per cavidotti e pozzetti dopo l'esecuzione dei getti è implicitamente compensato con il prezzo dell'opera. Nessun compenso potrà essere richiesto per i sondaggi da eseguire prima dell'inizio degli scavi per l'accertamento dell'esatta ubicazione dei servizi nel sottosuolo. Il rifacimento delle pavimentazioni interessate da scavi per l'apertura di trincee deve essere effettuata a perfetta regola d'arte e secondo le disposizioni impartite dagli enti proprietari ai quali spetta il collaudo qualitativo del lavoro. L'Appaltatore è tenuto a mettere in sito i cippi ed a ripristinare la segnaletica orizzontale rimossa durante il disfacimento della pavimentazione.

b) Pozzetti

Per l'impianto di illuminazione pubblica si dovranno posare dei pozzetti in corrispondenza dei centri luminosi, per di collocarvi i componenti di giunzione o di derivazione dei cavi elettrici. Tali pozzetti saranno di tipo prefabbricato, con chiusino carreggiabile in ghisa. I pozzetti dovranno essere opportunamente rinfiancati con calcestruzzo, aperti sul fondo, con sottofondo drenante in pietrisco. I coperchi in ghisa dovranno avere portata conforme alle norme UNI EN 124 (B125 per marciapiedi, C250 per carreggiata). In caso di illuminazione di aree verdi è consentito l'utilizzo di pozzetti con coperchio in cls.

Con il prezzo a corpo sono compensati, oltre allo scavo, anche il trasporto a piè d'opera, il tratto di tubazione in plastica interessato dalla parete del manufatto, nonché il trasporto alla discarica del materiale scavato ed il ripristino del suolo pubblico.

c) Blocchi di fondazione dei pali

Nell'esecuzione dei blocchi di fondazione per il sostegno dei pali saranno mantenute le caratteristiche dimensionali e costruttive indicate nel disegno allegato. Saranno inoltre rispettate le seguenti prescrizioni:

- esecuzione dello scavo con misure adeguate alle dimensioni del blocco;
- formazione del blocco in calcestruzzo dosato a 250 Kg di cemento tipo 325 per metro cubo di impasto;



- esecuzione della nicchia per l'incastro del palo, con l'impiego di cassaforma o di tubo di plastica o cemento prefabbricato;
- fornitura e posa, entro il blocco in calcestruzzo di spezzone di tubazione in plastica del diametro esterno di 63 mm per il passaggio dei cavi, collegato al pozzetto di derivazione;
- riempimento eventuale dello scavo con materiale di risulta o con ghiaia naturale accuratamente costipata; trasporto alla discarica del materiale eccedente;
- superfici lisce ed inclinate per l'allontanamento rapido dell'acqua dalla base del palo;
- zoccolo di protezione h 200 mm alla base del palo in calcestruzzo gettato in opera dopo la piombatura con sabbia del palo.

d) Pali di sostegno

I pali per illuminazione pubblica devono essere conformi alle norme UNI-EN 40 (dovrà essere presentata la prescritta certificazione di conformità CE). E' previsto l'impiego di pali di acciaio di qualità almeno pari a quello Fe 360 grado B o migliore, secondo norma CNR-UNI 7070/82, a sezione circolare e forma conica o cilindrica ricavati da lamiera. Tutte le caratteristiche dimensionali ed i particolari costruttivi sono indicati nei disegni allegati. In corrispondenza del punto di incastro del palo nel blocco di fondazione deve essere applicata una protezione contro la corrosione costituita da guaina termorestringente tipo Raytech o similare costituita da poliolefina reticolata ad elevato spessore con parte interna rivestita di adesivo termofusibile per garantire la perfetta sigillatura al palo. Tale protezione dovrà estendersi ad un'altezza minima di cm. 15 sopra e sotto il punto di incastro del palo. Il bloccaggio dei bracci o dei codoli per apparecchi a cima palo dovrà avvenire tramite grani in acciaio INOX M10 x 1 temprati ad induzione. Sia i dadi che i grani suddetti dovranno essere in acciaio INOX del tipo X12 Cr13 secondo Norma UNI 6900/71. Nei pali dovranno essere praticate numero due aperture delle seguenti dimensioni: un foro ad asola della dimensione 150 x 50 mm, per il passaggio dei conduttori, posizionato con il bordo inferiore a 500 mm dal previsto livello del suolo, una finestrella d'ispezione delle dimensioni 200 x 75 mm, collocata dalla parte opposta al senso di transito del traffico veicolare o comunque rivolto verso il marciapiede, con il bordo inferiore ad almeno 600 mm al di sopra del livello del suolo. La chiusura della finestrella d'ispezione dovrà avvenire mediante un portello, con portello in rilievo in pressofusione di alluminio, adatto al contenimento di detta morsettiera, sempre con bloccaggio mediante chiave triangolare. Il portello deve comunque essere montato in modo da soddisfare il grado minimo di protezione interna IP 43 secondo Norma CEI 70-1. La finestrella d'ispezione dovrà consentire l'accesso all'alloggiamento elettrico che dovrà essere munito di un dispositivo di fissaggio (guida metallica) destinato a sostenere la morsettiera di connessione in classe II. Per la protezione di tutte le parti in acciaio (pali, portello, guida d'attacco, braccio e codoli) è richiesta la zincatura a caldo secondo la Norma CEI 7-6 (1968). Il percorso dei cavi nei blocchi e nell'asola inferiore dei pali sino alla morsettiera di connessione, dovrà essere protetto tramite uno o più tubi in PVC flessibile serie pesante diametro 50-63 mm, posato all'atto della collocazione dei pali stessi entro i fori predisposti nei blocchi di fondazione medesimi, come da disegni "particolari". Per il sostegno degli apparecchi di illuminazione su mensola od a cima-palo dovranno essere impiegati bracci in acciaio o codoli zincati a caldo secondo Norma UNI-EN 40/4 ed aventi le caratteristiche dimensionali indicate nel disegno "particolari" e/o nell'elenco prezzi. Prima del rizzamento del palo si dovrà provvedere all'eventuale asportazione di qualsiasi materiale estraneo che si trovi nel foro predisposto nel blocco di fondazione. Le operazioni di rizzamento del palo, di allineamento e di messa a piombo, dovranno essere eseguite senza causare alcun sfregio o deterioramento alla zincatura protettiva del palo stesso. I sostegni che venissero deteriorati nella zincatura durante qualsiasi fase di lavorazione, dovranno essere sostituiti. La sabbia di riempimento del vano residuo del foro di fondazione, dovrà essere ben costipata e sigillata alla sommità con cemento.



Linee elettriche

L'Appaltatore dovrà provvedere alla fornitura ed alla posa in opera dei cavi relativi al circuito di alimentazione di energia. Sono previsti cavi per energia elettrica identificati dalle seguenti sigle di designazione:

- per distribuzione energia linee interrate o aeree, cavi unipolari o multipolari isolati con gomma etilenpropilenica ad alto modulo di qualità G7, non propagante l'incendio e di ridotta emissione di gas corrosivi, guaina in PVC qualità RZ, tipo FG7-06/1KV, IMQ, CEI 20-13, CEI 20-22 II, UNEL C 534, C 540; l'attuale tipologia di cavi rispondente alla direttiva CPR è l'FG16OR16 ovvero FG16R16.
- per l'impianto di messa a terra o all'interno dei quadri di comando; cavi elettrici unipolari flessibili tipo N07V-K, IMQ, (propagante l'incendio), CEI 20-14, CEI 20-22 II, UNEL 35752. L'attuale tipologia di cavi rispondente alla direttiva CPR è l'FS17.

Tutti i cavi saranno rispondenti alla Norma CEI 20-13 e varianti e dovranno disporre di certificazioni IMQ od equivalente. Nelle tavole allegate sono riportati schematicamente, ma nella reale disposizione planimetrica, il percorso, la sezione ed il numero dei conduttori. L'Appaltatore dovrà attenersi scrupolosamente a quanto indicato nei disegni, salvo eventuali diverse prescrizioni della D.L.

Tutte le linee dorsali di alimentazione, per posa sia aerea che interrata, saranno costituite da cavi unipolari uguali. I cavi per la derivazione agli apparecchi di illuminazione saranno unipolari, con sezione di 2,5 mmq., le derivazioni saranno distribuite opportunamente in modo sequenziale sulle tre fasi (in caso di sistema trifase) al fine di mantenere sempre il carico della linea equilibrato.

Per i cavi unipolari la distinzione delle fasi e del neutro dovrà apparire esternamente sulla guaina protettiva. E' consentita l'apposizione di fascette distintive ogni tre metri in nastro adesivo, colorate in modo diverso (marrone fase R - bianco fase S - verde fase T - blu chiaro neutro).

La fornitura e la posa in opera del nastro adesivo di distinzione si intendono compensate con il prezzo a corpo.

Posa in opera di cavi interrati o in tubazioni

I cavi dovranno essere infilati nei cavidotti attraverso i pozzetti di derivazione, trainati con il filo pilota senza provocare abrasioni alla guaina di protezione e/o di isolamento. All'interno dei pozzetti i singoli cavi dovranno presentare una "scorta", rispetto al tracciato rettilineo, pari alla misura del lato del pozzetto. I cavi appartenenti a singole linee dovranno essere riuniti in fasci, separati per circuiti e legati con fascette di nylon, contrassegnati in modo da poterli facilmente e rapidamente individuare.

Giunzione, derivazioni di cavi

Tutte le giunzioni di linea e di derivazione da eseguire su cavi, dovranno essere realizzate con crimpatura dei connettori e ricostituzione dell'isolamento del cavo con giunto di tipo rapido in gel 0,6/1KV Classe 2 (tipo Klik RayTech) o similare.

Per i cavi interrati, tutti i giunti di linea e di derivazione dovranno ritrovarsi a lavoro finito esclusivamente entro i pozzetti. Il compenso relativo alle giunzioni dei cavi di qualsiasi tipo e funzione, è compreso nel prezzo unitario dei cavi stessi e l'appaltatore non potrà quindi in nessun caso richiederne compensi separati.

Allacciamento degli apparecchi illuminanti

Per l'allacciamento degli apparecchi sostenuti da pali e linee in cavo interrato, si dovrà eseguire, in corrispondenza dei relativi pozzetti, una derivazione in cavo avente le caratteristiche indicate nel precedente punto (della sezione di 2,5 mmq).

Per gli apparecchi su palo il cavo di allacciamento suddetto verrà infilato entro la cavità del palo stesso; le teste terminali di detto cavo dovranno essere dotate di capicorda a compressione con imbocco isolato, in



modo che il cavo risulti perfettamente isolato e protetto fino alle morsettiere di estremità e fissato a mezzo dei morsetti ferma-cavo di cui deve essere dotata l'armatura.

In corrispondenza dell'attraversamento del blocco di fondazione, a partire dal pozzetto fino all'interno del palo, il cavo di collegamento a tra del corpo illuminante dovrà essere protetto mediante spezzoni di tubo in plastica flessibile di diametro interno non inferiore a 30mm.

Protezione dai contatti diretti

La protezione dai contatti diretti è ottenuta tramite componenti adeguatamente isolati o protetti da involucri o barriere che impediscono il contatto con le dita. I coperchi, i portelli, i ripari che danno accesso a parti in tensione con protezione inferiore a IP20 saranno asportabili solo con l'uso di utensili. Possono considerarsi protezioni aggiuntive contro i contatti diretti gli interruttori differenziali con sensibilità di 30mA

Protezione contro i contatti indiretti

La protezione dai contatti indiretti è ottenuta realizzando impianti in classe II (doppio isolamento) senza la necessità dell'impianto di messa a terra.

Protezione delle condutture contro sovracorrenti e cortocircuiti

Il dimensionamento delle condutture e la scelta degli interruttori è stata effettuata per assicurare il rispetto delle seguenti condizioni di funzionamento e sicurezza: coordinamento fra correnti di impiego, portate dei conduttori e caratteristiche d'intervento dei dispositivi di protezione da sovraccarico:

Regola 1) $I_b \leq I_n \leq I_z$

Regola 2) $I_f \leq 1.45 I_z$

dove:

I_b = Corrente di impiego del circuito

I_n = Corrente nominale dell'interruttore

I_z = Portata a regime permanente del cavo

I_f = Corrente di sicuro funzionamento dell'interruttore automatico

La prima regola soddisfa le condizioni generali di protezione dal sovraccarico.

La regola 2, impiegando per la protezione dal sovraccarico un interruttore automatico, è sempre verificata, poiché la corrente di sicuro funzionamento I_f non è mai superiore a 1,45 I_n (1,3 I_n secondo CEI EN 60947-2; 1,45 I_n secondo CEI EN 60898).

Fornitura e posa degli apparecchi di illuminazione

Si rimanda alle schede tecniche allegate.

Tutti gli apparecchi di illuminazione devono avere il grado di protezione interno minimo: vano ottico = IP66, vano ausiliari = IP44

Gli apparecchi dovranno altresì essere realizzati in Classe II ed essere rispondenti all'insieme delle norme:

- CEI 34-21 fascicolo n.1034 Novembre 1987 e relative varianti
- CEI 34-30 fascicolo n.773 Luglio 1986 e relative varianti "proiettori per illuminazione"
- CEI 34-33 fascicolo n.803 Dicembre 1986 e relative varianti "apparecchi per illuminazione stradale"

In ottemperanza alla Norma CEI 34-21 i componenti degli apparecchi di illuminazione dovranno essere cablati a cura del costruttore degli stessi, i quali pertanto dovranno essere forniti e dotati completi di lampade ed ausiliari elettrici rifasati. La rispondenza al complesso delle norme di cui sopra dovrà essere certificata con la consegna al D.L. della dichiarazione di conformità alle norme stesse rilasciata dal costruttore degli apparecchi di illuminazione, ai sensi dell'art. 7 della Legge 18 ottobre 1977 n. 791, oppure tramite l'accertamento dell'esistenza del Marchio di Conformità opposto sugli apparecchi stessi, ovvero dal rilascio dell'attestato di conformità ai sensi della già citata Legge 791/77.



Gli apparecchi di illuminazione dovranno altresì essere del tipo Cut-off ed essere dotati di certificato di conformità alla Legge Regionale Emilia Romagna n.19/2003 e relativo circolare esplicativa e successive delibere.

Impianto di terra e dispersori

L'impianto non prevede la messa a terra degli apparecchi di illuminazione o delle altre parti metalliche, in quanto tutto il sistema sarà realizzato con doppio isolamento (classe II).

Qualora, per particolari esigenze, venissero impiegati apparecchi di illuminazione sprovvisti di isolamento in Classe II, occorre realizzare il collegamento ad un impianto di messa terra.

Verifiche, collaudi, certificazioni

All'ultimazione dei lavori l'impresa appaltatrice dovrà procedere ai seguenti adempimenti:

- rilievi e stesura dei disegni di progetto definitivi ed aggiornati all' eseguito;
- esami a vista:
 - accertamento che i componenti elettrici siano conformi alle prescrizioni di sicurezza delle relative norme, scelti correttamente e messi in opera in accordo con le eventuali prescrizioni;
 - accertamento che i componenti elettrici non siano visibilmente danneggiati in modo tale da compromettere la sicurezza;
 - verifica del funzionamento delle protezioni differenziali;
 - verifica della scelta dei conduttori per quanto concerne la loro portata e la caduta di tensione;
 - verifica della scelta e taratura dei dispositivi di protezione e segnalazione;
 - verifica della presenza e corretta messa in opera dei dispositivi di sezionamento e comando;
 - verifica della scelta dei componenti elettrici e delle misure di protezione idonei con riferimento alle influenze esterne;
 - identificazione dei conduttori di neutro e di protezione;
 - presenza di schemi, di cartelli monitori e di informazioni analoghe;
 - identificazione dei circuiti, interruttori, ecc...;
 - idoneità delle connessioni dei conduttori;
 - verifica dell'accessibilità dell'impianto per interventi operativi e di manutenzione;
- prove:
 - verifica continuità del conduttore di protezione (ove previsto);
 - misura resistenza di isolamento;
 - misura resistenza di terra (ove prevista);
 - prove illuminamento;
- dichiarazione conformità;
- dichiarazione conformità redatta ai sensi legge Regionale n.19/2003 e relativa Circolare esplicativa;
- documentazione caratteristiche illuminotecniche degli apparecchi illuminanti;
- documentazione di conformità CE dei sostegni.



E) ELENCO ELABORATI

Il presente progetto si compone dei seguenti elaborati:

E00	Elenco elaborati
E01	Relazione tecnica + valutazione dei rischi UNI 11248 + capitolato tecnico + piano manutenzione + dichiarazione conformità del progetto a LR 19/2003
E02	Calcoli illuminotecnici
E03	Planimetria dislocazione impianti illuminazione
E04	Elenco prezzi e analisi nuovi prezzi
E05	Computo metrico estimativo
E06	Computo metrico
E07	Quadro incidenza manodopera
E08	Quadro economico

L'installatore, a fine lavori, oltre a redigere la documentazione di progetto resa al come costruito, dovrà rilasciare la dichiarazione di conformità alla LR 19/2003 e successive modifiche dell'impianto realizzato in relazione al progetto approvato.

Agosto 2019

Progettista
Ing.I. – Per. Ind. Luca Mazzoni



Allegati: Schede tecniche apparecchi



ALLEGATO H3
DICHIARAZIONE DI CONFORMITA' DEL PROGETTO ILLUMINOTECNICO
alla LR 19/03 e Direttiva applicativa

Il sottoscritto **Luca Mazzoni** con sede di lavoro in via **G. Zibordi n° 23** Comune **Guastalla** Prov. **RE** Tel **3493176958** iscritto al **Ordine dei Periti Industriali della Provincia di Reggio Emilia** con numero **1119** in qualità di **progettista delle opere di manutenzione straordinaria ed efficientamento energetico sui seguenti impianti di illuminazione pubblica del Comune di Rubiera: Via Paduli, Via F.lli Cervi, Via De Gasperi (parcheeggio + zona fitness), Parco Andreoli**

DICHIARA

sotto la propria personale responsabilità che l'impianto è stato progettato in conformità alla LR. 19/2003 "Norme in materia di riduzione dell'Inquinamento Luminoso e di risparmio energetico" e alla direttiva applicativa di tale legge.

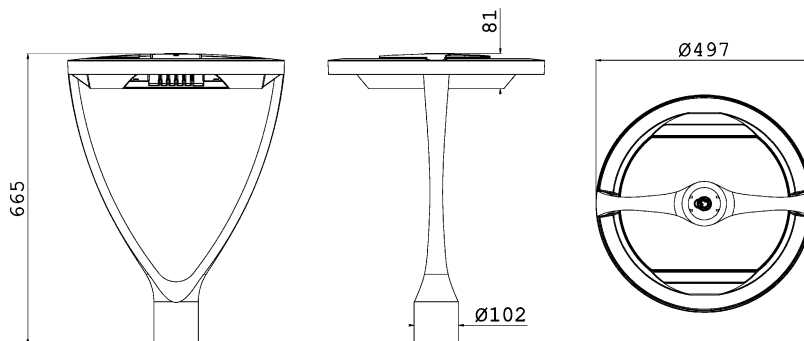
DECLINA

- ogni responsabilità per sinistri a persone o a cose derivanti da una esecuzione sommaria e non realizzata con i dispositivi previsti nel progetto illuminotecnico esecutivo.
- ogni responsabilità derivante da una scorretta installazione (non conforme alla LR. 19/2003 e al presente progetto), ricordando che nel progetto sono presenti tutti gli elementi per una installazione corretta.

Agosto 2019

Firma
Ing.I.-Per.Ind. Luca Mazzoni





ECO·RAYS

ECO-RAYS TP

CARATTERISTICHE PRINCIPALI

Applicazioni	illuminazione stradale e urbana.
Gruppo ottico	STU-M / S: Ottica asimmetrica per illuminazione stradale urbana e ciclopedonale. SV: Ottica asimmetrica per illuminazione di svincoli autostradali o strade urbane molto strette. S: Ottica simmetrica per illuminazione stradale e urbana. S05: Ottica asimmetrica per illuminazione stradale e urbana Temperatura di colore: 4000K (3000K in opzione) CRI ≥ 70 Classe di sicurezza fotobiologica: EXEMPT GROUP Efficienza sorgente LED: 158 lm/W @ 525mA, Tj=85°C, 4000K
Classe di isolamento	II, I
Grado di protezione	IP66
Grado di resistenza	IK08
Moduli LED	Rimovibili
Inclinazione	0°
Dimensioni	Ø497x665x81mm
Peso	7 kg
Superficie esposta	Laterale: 0.07m ² – Pianta: 0.17m ²
Montaggio	Testa palo Ø60-Ø76mm
Cablaggio	Piastra cablaggio rimovibile
Temp. di esercizio	-40°C / +50°C
Temp. di stoccaggio	-40°C / +80°C
Norme di riferimento	EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3



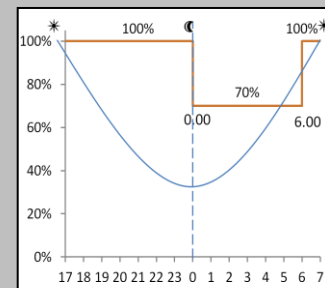
CARATTERISTICHE ELETTRICHE

Alimentazione	220÷240V 50/60Hz
Corrente LED	525mA, 700mA
Fattore di potenza	>0,9 (a pieno carico)
Connessione rete	Connettore esterno per cavi sezione max. 2,5mm ²
Dispositivo di protezione surge	SPD integrato 10kV-10kA, type II, completo di LED di segnalazione e termofusibile per disconnessione del carico a fine vita. Tenuta all'impulso: 10kV / 10kV CM/DM
Sistema di controllo (opzioni)	F: Fisso non dimmerabile. DA: Dimmerazione automatica (mezzanotte virtuale) con profilo di default. DAC: Profilo DA custom. FLC: Flusso luminoso costante. PLM: Telecontrollo punto/punto ad onde convogliate. WL: Telecontrollo punto/punto ad onde radio. DALI: Interfaccia di dimmerazione digitale DALI. NEMA: Presa 7 pin (ANSI C136.41). MS: Regolazione con sensore di movimento.
Vita gruppo ottico (Tq=25°C, 700mA)	≥100.000hr L90B10 ≥100.000hr L90, TM-21

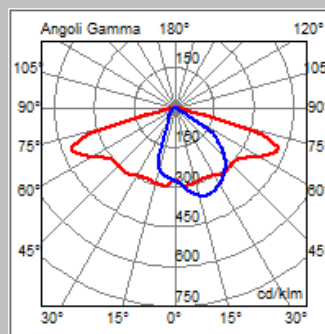
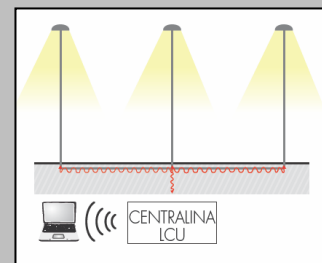
MATERIALI

Attacco	Alluminio pressofuso UNI EN1706. Verniciato a polveri.
Corpo	
Gruppo ottico	Alluminio 99.85% con finitura superficiale realizzata con deposizione sotto vuoto 99.95%. (Alluminio classe A+ DIN EN 16268)
Schermo	Vetro piano temperato sp. 4mm elevata trasparenza.
Pressacavo	Plastico M20x1.5 - IP68
Guarnizione	Poliuretana
Colore	Grafite Cod. 01

Profilo DA



PLM



Ottica STU-M

Tutti i dati fotometrici pubblicati sono stati rilevati in conformità alle norme UNI EN 13032-1 e IES LM 79-08





APPARECCHIO	OTTICA	FLUSSO APPARECCHIO* (Tq=25°C, 4000K, lm)	POTENZA APPARECCHIO* (Tq=25°C, Vin=230Vac, F/DA/DAC, W)	EFFICIENZA APPARECCHIO (Tq=25°C, lm/W)	FLUSSO NOMINALE LED* (Tj=85°C, 4000K, lm)	POTENZA NOMINALE LED* (Tj=85°C, W)
ECO RAYS TP 0R2C1 S 4.5-2M	S	3500	31.5	111	4118	26
ECO RAYS TP 0R2C1 S 4.7-2M	S	4420	42	105	5274	36
ECO RAYS TP 0R2C1 S05 4.5-2M	S05	3470	31.5	110	4118	26
ECO RAYS TP 0R2C1 S05 4.50-1M	S05	1730	16	108	1954	12
ECO RAYS TP 0R2C1 S05 4.7-1M	S05	2280	22.5	101	2637	18
ECO RAYS TP 0R2C1 S05 4.7-2M	S05	4380	42	104	5274	36
ECO RAYS TP 0R2C1 STU-M 4.5-2M	STU-M	3220	31.5	102	4118	26
ECO RAYS TP 0R2C1 STU-M 4.50-1M	STU-M	1660	16	103	1954	12
ECO RAYS TP 0R2C1 STU-M 4.7-1M	STU-M	2210	22.5	98	2637	18
ECO RAYS TP 0R2C1 STU-M 4.7-2M	STU-M	4060	42	96	5274	36
ECO RAYS TP 0R2C1 STU-S 4.5-2M	STU-S	3220	31.5	102	4118	26
ECO RAYS TP 0R2C1 STU-S 4.50-1M	STU-S	1660	16	103	1954	12
ECO RAYS TP 0R2C1 STU-S 4.7-1M	STU-S	2210	22.5	98	2637	18
ECO RAYS TP 0R2C1 STU-S 4.7-2M	STU-S	4060	42	96	5274	36
ECO RAYS TP 0R2C1 SV 4.5-2M	SV	3400	31.5	107	4118	26
ECO RAYS TP 0R2C1 SV 4.50-1M	SV	1550	16	96	1954	12
ECO RAYS TP 0R2C1 SV 4.7-1M	SV	2040	22.5	90	2637	18
ECO RAYS TP 0R2C1 SV 4.7-2M	SV	4280	42	101	5274	36

*FLUSSO APPARECCHIO / POTENZA APPARECCHIO: Dati nominali rilevati in laboratorio.

*FLUSSO NOMINALE LED / POTENZA NOMINALE LED: Dati nominali estrapolati da datasheet costruttore LED.

Al fine di favorire un costante aggiornamento dei propri prodotti, AEC si riserva il diritto di apportare modifiche senza preavviso.

I valori indicati in questa scheda tecnica sono da considerarsi valori nominali con una tolleranza del +/-5%.



APPARECCHIO	OTTICA	FLUSSO APPARECCHIO* (Tq=25°C, 3000K, lm)	POTENZA APPARECCHIO* (Tq=25°C, Vin=230Vac, F/DA/DAC, W)	EFFICIENZA APPARECCHIO (Tq=25°C, lm/W)	FLUSSO NOMINALE LED* (Tj=85°C, 3000K, lm)	POTENZA NOMINALE LED* (Tj=85°C, W)
ECO RAYS TP 0F2H1 S 3.5-2M	S	3330	30.5	109	4020	26
ECO RAYS TP 0F2H1 S 3.7-2M	S	4260	40	106	5116	36
ECO RAYS TP 0F2H1 S05 3.5-2M	S05	3330	30.5	109	4020	26
ECO RAYS TP 0F2H1 S05 3.50-1M	S05	1630	16	101	1909	12
ECO RAYS TP 0F2H1 S05 3.7-1M	S05	2190	21.5	101	2558	18
ECO RAYS TP 0F2H1 S05 3.7-2M	S05	4260	40	106	5116	36
ECO RAYS TP 0F2H1 STU-M 3.5-2M	STU-M	3260	30.5	106	4020	26
ECO RAYS TP 0F2H1 STU-M 3.50-1M	STU-M	1590	16	99	1909	12
ECO RAYS TP 0F2H1 STU-M 3.7-1M	STU-M	2140	21.5	99	2558	18
ECO RAYS TP 0F2H1 STU-M 3.7-2M	STU-M	4170	40	104	5116	36
ECO RAYS TP 0F2H1 STU-S 3.5-2M	STU-S	3260	30.5	106	4020	26
ECO RAYS TP 0F2H1 STU-S 3.50-1M	STU-S	1590	16	99	1909	12
ECO RAYS TP 0F2H1 STU-S 3.7-1M	STU-S	2140	21.5	99	2558	18
ECO RAYS TP 0F2H1 STU-S 3.7-2M	STU-S	4170	40	104	5116	36
ECO RAYS TP 0F2H1 SV 3.5-2M	SV	3090	30.5	101	4020	26
ECO RAYS TP 0F2H1 SV 3.50-1M	SV	1510	16	94	1909	12
ECO RAYS TP 0F2H1 SV 3.7-1M	SV	2030	21.5	94	2558	18
ECO RAYS TP 0F2H1 SV 3.7-2M	SV	3950	40	98	5116	36

*FLUSSO APPARECCHIO / POTENZA APPARECCHIO: Dati nominali rilevati in laboratorio.

*FLUSSO NOMINALE LED / POTENZA NOMINALE LED: Dati nominali estrapolati da datasheet costruttore LED.

Al fine di favorire un costante aggiornamento dei propri prodotti, AEC si riserva il diritto di apportare modifiche senza preavviso.

I valori indicati in questa scheda tecnica sono da considerarsi valori nominali con una tolleranza del +/-5%.

Photometric Test Report



Costruttore	AEC ILLUMINAZIONE SRL
Tipo di prodotto	Outdoor Lighting Luminaire
Codice fotometria	ECO RAYS TP 0F2H1 S05 3.7-2M
Codice apparecchio	ECO RAYS TP 0F2H1 S05 3.7-2M
Rilievo fotometrico	AEC19109
Descrizione apparecchio	ECO RAYS TP 0F2H1 S05 3.7-2M
Data delle prove	26-05-2016

Foto del prodotto



Responsabile laboratorio fotometrico	Luca Vagheggi	
Tecnico laboratorio che ha eseguito la misura	Alessio Vagheggi	



Photometric Test Report



Sommario e Allegati

Sommario	Dati apparecchio	
	Normative di riferimento	
	Procedure di riferimento	
	Condizioni di prova	
	Risultati fotometrici	
	Lista strumentazione	
	Incertezza strumentale	
Allegati	Dati Generali	X
	Tabella fotometrica delle Intensità (cd/Klm)	X
	Tabella fotometrica delle Intensità (cd)	
	Diagramma Polare	
	Diagramma Cartesiano	
	Valutazione UGR	
	Diagramma Sollner Abbagliamento	
	Flusso Zonale	X
	Coefficienti di Utilizzazione	
	Isolux Unitario	
	Isocandele Percentuale	
	Tabella e Diagramma Luminanza	X
	Classificazione Strade	X
Classificazione Strade IES TM-15	X	



Photometric Test Report



DATI APPARECCHIO

Geometria apparecchio	Circolare		
Dimensioni apparecchio (mm)	Lunghezza / Diametro	Larghezza	Altezza
	497	497	81
Dimensioni area luminosa (mm)	Lunghezza / Diametro	Larghezza	Altezza C0
	120	110	0
	Altezza C90	Altezza C180	Altezza C270
	0	0	0
Tipo sorgente	LED		
Modello sorgente	Luxeon-M, Luxeon-Tx		
Tipo Alimentatore	Elettronico / Electronic		
Modello Alimentatore	Osram OT		

NORMATIVE DI RIFERIMENTO

Normative di riferimento	UNI EN 13032-1:2012 UNI EN 13032-4:2015 IES LM-79-08
Valutazione luce parassita	In accordo con Annex A UNI EN 13032-1

PROCEDURE DI RIFERIMENTO

Procedure di riferimento	I-QL-009
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Photometric Test Report

CONDIZIONI DI PROVA



Laboratorio fotometrico	Interno AEC ILLUMINAZIONE srl, in regime di sistema di qualità aziendale certificato ISO 9001:2008, autorizzato UL	
Condizioni Ambientali	Temperatura ambiente (°C)	25 ± 1
	Umidità relativa (°RH)	< 60
	Movimento aria (m/s)	< 0,2
Condizioni Elettriche	Tensione di alimentazione (V)	230V AC ± 0,2%
	Frequenza di alimentazione (Hz)	50 Hz ± 0,1%
	Distorsione armonica THD V	< 0,5%
Condizioni Preliminari Prova	Metodo di misura	Goniofotometro
	Sistema di riferimento misura	Sistema C-γ
	Posizione di misura	Verticale (Gonio)
	Distanza di misura (m)	9,03
	Tempo di stabilizzazione (min)	90
	Instabilità sorgente	< 0,5%

I risultati delle verifiche e prove qui riportati, si riferiscono esclusivamente agli esemplari esaminati e descritti nella presente Relazione. L'estensione del riferimento ad esemplari che non siano quelli sottoposti alle verifiche descritte in seguito esula dallo scopo delle verifiche stesse. E' vietata la riproduzione integrale o parziale senza l'autorizzazione scritta di Aec illuminazione srl. L'immagine dell'apparecchio nella prima pagina è puramente indicativa della tipologia di apparecchio sottoposto a test.



Photometric Test Report



RISULTATI FOTOMETRICI

Tipo di misura fotometrica	Assoluta
LOR	100.0
Flusso luminoso apparecchio (lm)	3760
Potenza ingresso apparecchio (W)	41.0
Efficienza apparecchio (lm/W)	92
Note e commenti	

LISTA STRUMENTAZIONE

CODICE AEC	STRUMENTO	COSTRUTTORE	MODELLO
Q129	Luxmetro	Czibula&Grundmann	100310
Q130	Goniofotometro	Oxytech	T2
Q131	Termoigrometro	Delta Ohm	HD2001
Q132	Wattmetro	N4L	PPA2510
Q135	Stabilizzatore	Elettrotest	TPS/M/9KW

INCERTEZZA STRUMENTALE

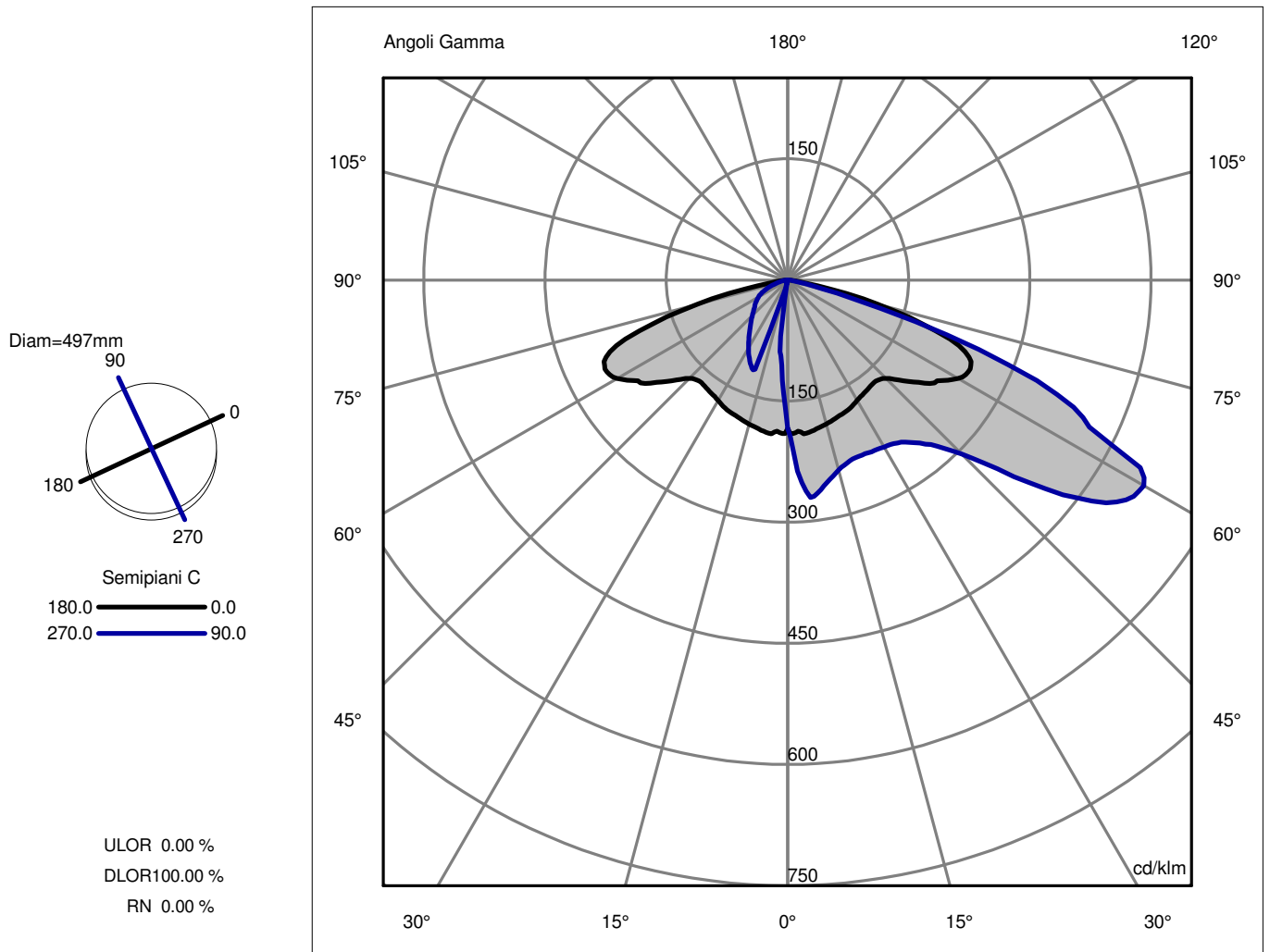
Encoder goniofotometro Oxytech T2	Precisione angolare in C – gamma	$\pm 0.044^\circ$
Luxmetro C&G	f1'	< 1.23%
Wattmetro Kinetiq N4L PPA2510	Accuratezza di potenza	< [0.05% + 0.03%/pf + (0.01%/kHz)/pf] Rdg + 0.05% VA Rng



Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S05 3.7-2M	Codice	AEC19109	Codice	L-ECR-0F2H1-3000-700-2M
Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Numero	1
Archivio	Eulumdat	Data	26-05-2016	Posizione	

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico
Apparecchio Circolare		Diam.	497 mm	Alt.	81 mm	Alt.	0 mm
Area Luminosa Rettangolare		Lung.	120 mm	Larg.	110 mm		
Area Luminosa Orizzontale	0.013200 m2			Area Luminosa Piano 180°	0.000000 m2		
Area Luminosa Piano 0°	0.000000 m2			Area Luminosa Piano 270°	0.000000 m2		
Area Luminosa Piano 90°	0.000000 m2			Area Luminosa a 76°	0.003193 m2		
Sistema Coordinate		CG	26-05-2016	Tipo di Simmetria	Massimo Angolo Gamma	Asimmetrico	180
Data							

Lampade Apparecchio					
Archivio	Codice	Nome	Flusso [lm]	Pot. [W]	Q.tà
	L-ECR-0F2H1-3000-700-2M	L-ECR-0F2H1-3000-700-2M	3760.00	41.00	1
C.I.E.	27 66 96 100 100	D DIN 5040	A10		
F UTE	1.00 I	B NBN	BZ 7 / 1 / BZ 6 / 2.5 / BZ 5		



Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S05 3.7-2M	Codice AEC19109	Codice L-ECR-0F2H1-3000-700-2M
Nome ECO RAYS TP 0F2H1 S05 3.7-2M	Nome ECO RAYS TP 0F2H1 S05 3.7-2M	Numero 1
Archivio Eulumdat	Data 26-05-2016	Posizione

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

	Tabella Intensità Luminose - cd/klm						Tabella 5/18						
	C 260.00	C 265.00	C 270.00	C 275.00	C 280.00	C 285.00	C 290.00	C 295.00	C 300.00	C 305.00	C 310.00	C 315.00	C 320.00
G 0.0	183.83	183.83	183.83	183.83	183.83	183.83	183.83	183.83	183.83	183.83	183.83	183.83	183.83
G 1.0	157.42	156.04	157.69	156.04	157.42	158.38	158.43	161.17	162.20	165.14	167.62	168.20	171.45
G 2.0	141.52	139.83	139.75	139.83	141.52	142.15	143.63	145.25	148.21	149.51	151.75	153.79	157.37
G 3.0	124.11	124.46	124.75	124.46	124.11	122.96	125.55	128.97	129.94	134.07	138.91	141.84	145.46
G 4.0	106.81	105.94	105.48	105.94	106.81	107.86	109.24	110.87	112.08	112.96	114.75	117.29	120.31
G 5.0	100.88	96.18	94.00	96.18	100.88	104.41	106.53	108.47	110.57	112.12	113.13	114.01	113.83
G 6.0	91.67	89.88	89.34	89.88	91.67	94.43	101.70	106.80	109.75	111.77	113.44	114.35	114.69
G 7.0	74.00	73.13	70.43	73.13	74.00	78.74	89.53	100.31	108.81	111.70	113.87	115.02	116.57
G 8.0	33.40	29.87	24.20	29.87	33.40	41.55	57.50	72.46	95.16	111.66	114.88	116.20	116.73
G 9.0	25.43	10.01	2.89	10.01	25.43	34.17	44.15	54.67	69.55	99.62	115.93	118.08	118.34
G 10.0	19.19	3.69	0.78	3.69	19.19	30.81	39.49	50.58	61.12	87.62	109.58	120.04	120.32
G 11.0	15.75	1.37	0.70	1.37	15.75	28.04	36.58	47.25	57.20	83.15	103.90	119.11	122.21
G 12.0	7.31	1.03	0.71	1.03	7.31	21.57	31.79	43.00	54.00	79.81	102.68	111.41	123.89
G 13.0	1.61	1.93	1.76	1.93	1.61	9.87	23.61	34.70	47.84	69.90	99.91	106.63	122.37
G 14.0	10.90	11.99	12.61	11.99	10.90	8.80	14.89	25.88	39.52	59.39	93.48	105.27	115.84
G 15.0	13.58	13.35	14.63	13.35	13.58	13.66	12.28	18.77	31.00	48.05	83.96	103.75	108.24
G 16.0	17.51	17.50	18.08	17.50	17.51	16.83	15.13	19.56	22.85	37.70	72.85	101.34	107.23
G 17.0	22.56	22.51	22.89	22.51	22.56	22.23	19.61	17.44	25.39	29.29	57.44	97.24	106.09
G 18.0	27.50	28.38	29.31	28.38	27.50	26.67	24.68	21.21	22.07	28.49	43.28	90.16	104.91
G 19.0	49.82	60.74	65.55	60.74	49.82	38.22	30.81	25.25	22.16	29.97	32.82	79.44	103.41
G 20.0	100.61	116.23	117.55	116.23	100.61	76.82	53.69	32.65	25.39	26.36	31.87	64.16	101.29
G 21.0	122.54	120.46	119.09	120.46	122.54	113.34	91.83	55.16	30.60	25.38	35.03	49.37	97.75
G 22.0	121.34	118.86	117.66	118.86	121.34	122.30	109.90	88.03	45.28	27.21	31.94	38.54	91.93
G 23.0	119.06	116.45	115.48	116.45	119.06	121.60	119.45	104.60	68.79	32.88	29.52	35.28	82.90
G 24.0	116.53	114.01	113.22	114.01	116.53	119.23	121.59	112.43	92.52	46.22	28.96	37.90	73.81
G 25.0	113.59	111.18	110.76	111.18	113.59	116.48	119.37	117.62	103.48	64.22	30.89	35.33	62.71
G 26.0	110.60	108.38	107.92	108.38	110.60	113.71	116.55	118.46	109.01	83.45	37.49	33.02	50.92
G 27.0	107.65	105.54	105.16	105.54	107.65	110.46	113.94	116.39	112.65	98.45	47.88	31.67	43.72
G 28.0	104.54	102.79	102.65	102.79	104.54	107.17	110.84	113.56	113.86	104.92	62.76	31.86	38.31
G 29.0	101.25	99.77	99.66	99.77	101.25	104.26	107.58	110.72	113.09	107.97	77.87	34.09	38.00
G 30.0	98.28	96.70	96.83	96.70	98.28	100.85	104.44	108.14	110.81	109.48	89.90	38.86	34.30
G 31.0	94.95	94.04	93.78	94.04	94.95	97.64	101.27	105.05	108.11	109.71	98.60	46.19	31.94
G 32.0	91.86	91.09	90.84	91.09	91.86	94.74	98.17	102.01	105.33	108.96	102.70	55.22	30.36
G 33.0	88.99	88.36	88.04	88.36	88.99	91.66	95.39	99.11	102.58	107.38	103.95	64.14	29.70
G 34.0	86.36	85.68	85.43	85.68	86.36	88.73	92.56	96.28	99.76	104.95	104.39	73.05	30.08
G 35.0	83.58	82.93	82.76	82.93	83.58	85.83	89.62	93.59	97.05	102.14	103.85	80.65	31.48
G 36.0	81.07	80.36	80.24	80.36	81.07	83.39	87.03	90.82	94.57	99.51	102.82	86.44	33.34
G 37.0	78.80	78.03	77.92	78.03	78.80	80.90	84.28	88.12	91.77	96.64	101.19	90.19	36.20
G 38.0	76.29	75.51	75.41	75.51	76.29	78.38	81.86	85.90	89.39	94.15	99.41	92.51	39.60
G 39.0	74.26	73.42	73.18	73.42	74.26	76.08	79.48	83.30	86.82	91.51	97.44	93.52	43.53
G 40.0	72.06	71.18	71.10	71.18	72.06	73.92	77.24	80.93	84.52	89.26	95.08	93.37	47.76
G 41.0	69.93	69.10	69.08	69.10	69.93	71.71	75.02	78.63	81.99	86.76	92.80	92.95	51.52
G 42.0	68.07	67.11	67.18	67.11	68.07	69.73	72.93	76.47	80.02	84.53	90.62	91.97	54.65
G 43.0	66.07	65.20	65.14	65.20	66.07	67.95	71.04	74.45	77.90	82.24	88.31	90.69	57.99
G 44.0	64.30	63.34	63.34	63.34	64.30	66.13	69.07	72.58	75.91	80.12	86.23	89.59	59.56
G 45.0	62.64	61.64	61.54	61.64	62.64	64.42	67.41	70.71	73.94	78.15	84.20	88.05	62.37
G 46.0	60.94	60.07	59.80	60.07	60.94	62.61	65.50	68.75	72.02	76.09	82.41	86.60	63.37
G 47.0	59.26	58.31	58.12	58.31	59.26	60.91	63.75	66.98	70.23	74.42	80.43	85.08	63.87
G 48.0	57.69	56.68	56.42	56.68	57.69	59.31	62.07	65.19	68.48	72.67	78.69	83.37	65.15
G 49.0	56.39	55.18	55.07	55.18	56.39	57.96	60.55	63.44	66.92	71.14	76.97	81.78	65.28
G 50.0	54.91	53.90	53.58	53.90	54.91	56.53	59.05	62.06	65.41	69.66	75.29	80.27	64.76
G 51.0	53.78	52.67	52.41	52.67	53.78	55.28	57.81	60.62	64.17	68.15	73.86	78.85	65.01
G 52.0	52.57	51.50	51.25	51.50	52.57	54.06	56.52	59.41	62.91	66.95	72.46	77.53	65.26
G 53.0	51.50	50.35	50.21	50.35	51.50	52.96	55.42	58.27	61.70	65.72	71.21	76.28	64.73
G 54.0	50.40	49.27	49.09	49.27	50.40	51.93	54.25	57.11	60.72	64.69	70.05	75.03	64.09
G 55.0	49.04	47.96	47.72	47.96	49.04	50.77	53.20	56.16	59.72	63.74	68.87	73.85	63.96
G 56.0	47.75	46.66	46.42	46.66	47.75	49.38	51.91	55.03	58.79	62.89	67.98	72.71	63.81
G 57.0	46.61	45.45	45.24	45.45	46.61	48.21	50.41	53.51	57.64	62.14	67.03	71.54	63.39
G 58.0	45.40	44.30	44.07	44.30	45.40	47.11	49.37	52.26	56.24	61.39	66.26	70.56	62.77
G 59.0	44.18	43.15	42.75	43.15	44.18	45.84	48.13	51.08	54.99	60.21	65.46	69.58	62.41
G 60.0	42.88	41.73	41.45	41.73	42.88	44.60	47.00	49.99	53.95	58.70	64.74	68.81	62.35
G 61.0	41.61	40.32	40.03	40.32	41.61	43.16	45.67	48.68	52.86	57.30	63.92	68.05	62.32
G 62.0	40.06	38.74	38.41	38.74	40.06	41.67	44.27	47.41	51.65	56.24	62.77	67.21	61.96
G 63.0	38.36	37.04	36.62	37.04	38.36	40.06	42.64	45.78	50.26	54.98	61.57	65.97	61.32
G 64.0	36.67	35.30	35.17	35.30	36.67	38.24	40.93	44.15	48.73	53.61	60.03	64.11	60.63
G 65.0	34.56	33.13	33.06	33.13	34.56	36.21	38.97	42.31	46.94	52.20	58.12	62.23	59.96
G 66.0	32.26	30.84	30.95	30.84	32.26	33.85	36.57	39.99	45.01	50.06	55.98	60.16	58.80
G 67.0	29.99	28.75	28.54	28.75	29.99	31.52	34.04	37.47	42.62	47.70	53.05	57.95	57.12
G 68.0	27.52	26.33	26.34	26.33	27.52	28.82	31.35	34.77	39.78	44.79	50.40	55.15	55.17
G 69.0	25.22	24.07	24.24	24.07	25.22	26.37	28.60	31.84	36.56	41.46	47.73	51.93	52.61
G 70.0	22.97	21.99	21.92	21.99	22.97	23.86	25.89	28.46	32.97	37.64	44.02	48.26	50.26
G 71.0	20.72	19.85	19.91	19.85	20.72	21.43	23.40	25.60	29.64	34.05	39.67	44.45	47.42
G 72.0	18.55	17.84	17.88	17.84	18.55	19.26	20.97	22.76	26.10	30.05	35.41	40.09	44.02

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S05 3.7-2M	Codice AEC19109	Codice L-ECR-0F2H1-3000-700-2M
Nome ECO RAYS TP 0F2H1 S05 3.7-2M	Nome ECO RAYS TP 0F2H1 S05 3.7-2M	Numero 1
Archivio Eulumdat	Data 26-05-2016	Posizione

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

	Tabella Intensità Luminose - cd/klm				Tabella 6/18			
	C 325.00	C 330.00	C 335.00	C 340.00	C 345.00	C 350.00	C 355.00	
G 0.0	183.83	183.83	183.83	183.83	183.83	183.83	183.83	
G 1.0	173.66	178.10	178.96	182.56	184.49	187.61	189.12	
G 2.0	160.69	165.38	168.76	174.10	178.54	183.91	187.21	
G 3.0	148.81	153.55	159.16	165.03	171.43	178.75	184.45	
G 4.0	140.68	144.72	150.12	156.84	164.50	174.03	182.23	
G 5.0	121.69	136.95	143.75	151.34	160.67	172.12	182.85	
G 6.0	115.07	125.75	137.54	146.01	155.23	168.12	181.17	
G 7.0	115.95	119.40	130.21	139.51	149.59	162.71	178.08	
G 8.0	117.18	116.87	123.31	133.46	144.73	157.98	175.58	
G 9.0	118.47	118.17	118.76	128.51	140.48	154.16	172.89	
G 10.0	120.06	119.51	118.18	123.92	136.78	151.08	170.53	
G 11.0	122.12	120.80	119.23	120.11	132.99	148.18	168.13	
G 12.0	123.60	122.29	119.95	118.28	129.15	145.17	165.25	
G 13.0	124.44	123.19	120.32	118.50	125.02	141.85	162.70	
G 14.0	124.46	123.47	120.98	118.81	121.12	138.77	159.83	
G 15.0	123.91	123.43	121.28	119.02	118.05	135.21	156.99	
G 16.0	121.17	123.08	121.76	119.43	116.16	131.44	154.06	
G 17.0	117.06	122.61	122.05	119.66	115.58	127.30	150.94	
G 18.0	110.36	122.33	122.46	119.77	115.12	123.26	147.64	
G 19.0	108.97	121.90	122.66	119.89	114.71	118.97	144.57	
G 20.0	108.16	121.57	122.80	119.83	114.28	115.02	141.64	
G 21.0	107.45	118.35	122.81	119.86	113.99	111.79	139.06	
G 22.0	106.57	117.02	122.76	119.79	113.82	109.37	136.74	
G 23.0	105.49	112.57	122.49	119.76	113.63	107.75	134.58	
G 24.0	104.18	110.54	122.20	119.71	113.54	106.61	132.54	
G 25.0	102.39	109.78	121.74	119.68	113.48	106.03	130.44	
G 26.0	99.94	108.96	121.31	119.75	113.23	105.74	128.38	
G 27.0	96.83	108.30	120.82	119.80	113.12	105.65	126.02	
G 28.0	92.92	107.41	120.28	119.76	113.02	105.61	123.89	
G 29.0	87.72	106.60	118.21	119.72	113.02	105.76	122.06	
G 30.0	81.85	105.54	116.60	119.61	113.03	105.84	119.88	
G 31.0	75.11	104.46	115.76	119.49	113.19	105.99	117.69	
G 32.0	67.42	103.18	111.59	119.33	113.23	106.16	115.52	
G 33.0	60.03	101.75	110.91	119.01	113.20	106.27	113.37	
G 34.0	52.54	100.22	110.17	118.84	113.30	106.34	111.41	
G 35.0	48.30	98.14	109.31	118.42	113.27	106.50	109.62	
G 36.0	41.52	96.42	108.45	117.87	113.31	106.67	108.06	
G 37.0	37.05	93.94	107.40	117.32	113.28	106.85	106.62	
G 38.0	35.53	91.12	106.31	116.63	113.38	107.22	105.54	
G 39.0	32.20	87.84	105.00	115.79	113.38	107.52	104.85	
G 40.0	29.49	84.12	103.93	114.91	113.36	107.88	104.60	
G 41.0	27.78	80.05	102.54	113.95	113.38	108.26	104.77	
G 42.0	26.49	75.71	101.07	112.86	113.51	109.04	105.31	
G 43.0	25.96	71.05	99.48	111.43	113.46	109.81	106.54	
G 44.0	25.73	66.21	97.78	110.14	113.62	110.73	108.26	
G 45.0	25.75	61.58	95.83	108.64	113.67	111.69	110.51	
G 46.0	25.96	57.14	93.56	106.88	113.54	112.91	113.08	
G 47.0	26.29	52.54	90.97	104.44	113.22	114.16	116.21	
G 48.0	27.04	48.28	88.09	102.37	112.68	115.29	119.94	
G 49.0	27.77	44.74	84.83	99.97	111.98	116.69	123.68	
G 50.0	28.34	40.95	81.05	97.00	111.19	117.91	127.64	
G 51.0	29.08	37.90	77.29	93.86	110.26	119.20	131.26	
G 52.0	30.05	34.36	72.82	90.52	108.78	120.32	134.91	
G 53.0	30.82	32.04	68.25	86.85	107.28	120.98	137.88	
G 54.0	31.38	29.71	63.31	83.04	105.08	121.36	140.51	
G 55.0	32.05	27.11	58.67	79.34	102.73	121.06	142.49	
G 56.0	32.88	25.37	53.77	75.75	99.55	120.11	143.86	
G 57.0	33.62	23.86	49.27	72.05	96.04	118.87	145.08	
G 58.0	34.10	22.55	45.06	68.80	91.99	116.90	146.21	
G 59.0	34.37	21.49	41.26	64.92	87.26	114.97	147.68	
G 60.0	34.66	20.44	37.52	62.40	83.03	112.41	149.88	
G 61.0	34.93	19.66	33.90	59.20	78.13	110.57	153.03	
G 62.0	35.21	19.00	30.86	56.25	73.60	108.72	157.43	
G 63.0	35.80	18.41	27.96	53.54	69.70	107.30	161.85	
G 64.0	36.32	18.09	25.53	50.68	65.10	106.08	165.95	
G 65.0	36.82	17.99	23.13	48.07	61.12	104.94	169.29	
G 66.0	37.35	17.94	21.10	45.60	57.14	103.17	170.49	
G 67.0	37.66	17.90	18.99	42.90	53.51	100.69	169.40	
G 68.0	37.76	17.90	17.13	40.16	49.57	96.36	166.14	
G 69.0	37.55	17.93	15.31	37.60	46.05	90.99	160.56	
G 70.0	36.88	17.93	13.66	34.98	42.69	84.87	152.50	
G 71.0	35.83	17.83	12.07	32.11	39.05	77.75	144.52	
G 72.0	34.36	17.59	10.59	29.52	35.95	69.56	132.88	

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S05 3.7-2M	Codice AEC19109	Codice L-ECR-0F2H1-3000-700-2M
Nome ECO RAYS TP 0F2H1 S05 3.7-2M	Nome ECO RAYS TP 0F2H1 S05 3.7-2M	Numero 1
Archivio Eulumdat	Data 26-05-2016	Posizione

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

	Tabella Intensità Luminose - cd/klm												Tabella 7/18
	C 0.00	C 5.00	C 10.00	C 15.00	C 20.00	C 25.00	C 30.00	C 35.00	C 40.00	C 45.00	C 50.00	C 55.00	C 60.00
G 73.0	156.58	164.26	184.40	243.56	274.67	304.84	288.18	286.11	267.55	257.44	216.36	182.09	158.89
G 74.0	135.67	143.47	167.45	224.71	252.40	266.12	239.39	246.23	240.39	225.23	178.79	145.81	121.19
G 75.0	115.34	122.37	149.72	202.05	223.39	232.69	204.69	209.35	206.00	187.94	138.14	106.57	88.19
G 76.0	96.45	104.14	131.42	177.29	194.96	198.08	172.80	181.15	175.79	145.26	98.88	76.75	63.16
G 77.0	74.79	86.80	114.27	155.45	166.68	167.21	147.12	153.88	132.35	96.70	67.02	53.10	44.12
G 78.0	53.72	63.48	87.45	125.96	130.20	131.81	114.24	119.53	87.55	63.80	43.61	36.89	30.33
G 79.0	37.71	46.27	64.06	90.78	93.35	88.15	73.18	77.77	56.44	41.15	29.72	25.91	21.70
G 80.0	25.94	34.26	49.06	64.65	64.95	59.62	46.60	48.30	34.04	26.41	20.49	19.02	16.41
G 81.0	19.15	27.15	36.31	47.95	44.44	38.49	29.19	29.82	21.35	17.52	14.67	14.05	12.58
G 82.0	14.65	21.62	27.56	33.67	30.50	25.56	18.97	18.57	14.15	12.78	11.22	11.06	9.65
G 83.0	10.94	16.28	20.22	22.77	19.40	16.84	12.41	12.19	10.30	9.81	8.69	8.47	7.57
G 84.0	8.16	12.33	14.19	15.50	12.61	11.02	8.45	8.68	7.72	7.24	6.56	6.53	5.70
G 85.0	5.61	8.98	9.52	10.38	8.22	7.31	6.08	6.33	5.69	5.32	4.72	4.73	4.16
G 86.0	3.51	5.83	6.06	6.30	5.27	4.89	4.20	4.32	3.83	3.61	3.31	3.17	2.86
G 87.0	1.91	3.28	3.29	3.57	3.08	3.02	2.62	2.66	2.43	2.25	2.03	2.03	1.80
G 88.0	0.76	1.46	1.44	1.56	1.54	1.64	1.49	1.46	1.39	1.24	1.12	1.07	1.01
G 89.0	0.23	0.55	0.59	0.66	0.76	0.75	0.67	0.66	0.63	0.56	0.51	0.47	0.44
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S05 3.7-2M	Codice AEC19109	Codice L-ECR-0F2H1-3000-700-2M
Nome ECO RAYS TP 0F2H1 S05 3.7-2M	Nome ECO RAYS TP 0F2H1 S05 3.7-2M	Numero 1
Archivio Eulumdat	Data 26-05-2016	Posizione

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

	Tabella Intensità Luminose - cd/klm						Tabella 8/18						
	C 65.00	C 70.00	C 75.00	C 80.00	C 85.00	C 90.00	C 95.00	C 100.00	C 105.00	C 110.00	C 115.00	C 120.00	C 125.00
G 73.0	162.01	145.73	137.52	127.73	129.20	120.95	129.20	127.73	137.52	145.73	162.01	158.89	182.09
G 74.0	122.36	108.50	103.53	93.99	92.65	86.72	92.65	93.99	103.53	108.50	122.36	121.19	145.81
G 75.0	89.39	78.68	74.70	66.93	65.05	63.66	65.05	66.93	74.70	78.68	89.39	88.19	106.57
G 76.0	61.74	55.90	53.67	47.88	48.55	43.94	48.55	47.88	53.67	55.90	61.74	63.16	76.75
G 77.0	43.81	39.24	37.89	33.71	33.89	31.82	33.89	33.71	37.89	39.24	43.81	44.12	53.10
G 78.0	30.45	27.86	26.68	24.77	24.40	22.73	24.40	24.77	26.68	27.86	30.45	30.33	36.89
G 79.0	21.79	20.19	19.82	18.27	17.86	17.30	17.86	18.27	19.82	20.19	21.79	21.70	25.91
G 80.0	16.11	14.57	14.57	12.95	13.43	12.64	13.43	12.95	14.57	14.57	16.11	16.41	19.02
G 81.0	12.21	11.00	10.73	9.90	10.30	9.89	10.30	9.90	10.73	11.00	12.21	12.58	14.05
G 82.0	9.52	8.56	8.34	7.90	8.16	7.99	8.16	7.90	8.34	8.56	9.52	9.65	11.06
G 83.0	7.53	6.70	6.69	6.30	6.55	6.26	6.55	6.30	6.69	6.70	7.53	7.57	8.47
G 84.0	5.68	5.13	5.08	4.75	5.12	4.93	5.12	4.75	5.08	5.13	5.68	5.70	6.53
G 85.0	4.16	3.79	3.83	3.57	3.80	3.66	3.80	3.57	3.83	3.79	4.16	4.16	4.73
G 86.0	2.93	2.60	2.66	2.45	2.62	2.57	2.62	2.45	2.66	2.60	2.93	2.86	3.17
G 87.0	1.83	1.69	1.72	1.58	1.68	1.60	1.68	1.58	1.72	1.69	1.83	1.80	2.03
G 88.0	1.00	0.93	0.94	0.92	0.93	0.89	0.93	0.92	0.94	0.93	1.00	1.01	1.07
G 89.0	0.41	0.38	0.36	0.38	0.39	0.37	0.39	0.38	0.36	0.38	0.41	0.44	0.47
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S05 3.7-2M	Codice AEC19109	Codice L-ECR-0F2H1-3000-700-2M
Nome ECO RAYS TP 0F2H1 S05 3.7-2M	Nome ECO RAYS TP 0F2H1 S05 3.7-2M	Numero 1
Archivio Eulumdat	Data 26-05-2016	Posizione

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

	Tabella Intensità Luminose - cd/klm						Tabella 9/18						
	C 130.00	C 135.00	C 140.00	C 145.00	C 150.00	C 155.00	C 160.00	C 165.00	C 170.00	C 175.00	C 180.00	C 185.00	C 190.00
G 73.0	216.36	257.44	267.55	286.11	288.18	304.84	274.67	243.56	184.40	164.26	156.58	120.61	60.58
G 74.0	178.79	225.23	240.39	246.23	239.39	266.12	252.40	224.71	167.45	143.47	135.67	106.92	52.11
G 75.0	138.14	187.94	206.00	209.35	204.69	232.69	223.39	202.05	149.72	122.37	115.34	94.10	44.14
G 76.0	98.88	145.26	175.79	181.15	172.80	198.08	194.96	177.29	131.42	104.14	96.45	78.07	35.71
G 77.0	67.02	96.70	132.35	153.88	147.12	167.21	166.68	155.45	114.27	86.80	74.79	57.16	27.31
G 78.0	43.61	63.80	87.55	119.53	114.24	131.81	130.20	125.96	87.45	63.48	53.72	39.48	21.43
G 79.0	29.72	41.15	56.44	77.77	73.18	88.15	93.35	90.78	64.06	46.27	37.71	26.50	16.76
G 80.0	20.49	26.41	34.04	48.30	46.60	59.62	64.95	64.65	49.06	34.26	25.94	19.18	13.38
G 81.0	14.67	17.52	21.35	29.82	29.19	38.49	44.44	47.95	36.31	27.15	19.15	13.35	10.88
G 82.0	11.22	12.78	14.15	18.57	18.97	25.56	30.50	33.67	27.56	21.62	14.65	10.00	8.59
G 83.0	8.69	9.81	10.30	12.19	12.41	16.84	19.40	22.77	20.22	16.28	10.94	7.55	6.61
G 84.0	6.56	7.24	7.72	8.68	8.45	11.02	12.61	15.50	14.19	12.33	8.16	5.32	4.80
G 85.0	4.72	5.32	5.69	6.33	6.08	7.31	8.22	10.38	9.52	8.98	5.61	3.54	3.29
G 86.0	3.31	3.61	3.83	4.32	4.20	4.89	5.27	6.30	6.06	5.83	3.51	2.21	2.04
G 87.0	2.03	2.25	2.43	2.66	2.62	3.02	3.08	3.57	3.29	3.28	1.91	1.17	1.23
G 88.0	1.12	1.24	1.39	1.46	1.49	1.64	1.54	1.56	1.44	1.46	0.76	0.59	0.71
G 89.0	0.51	0.56	0.63	0.66	0.67	0.75	0.76	0.66	0.59	0.55	0.23	0.34	0.39
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S05 3.7-2M	Codice AEC19109	Codice L-ECR-0F2H1-3000-700-2M
Nome ECO RAYS TP 0F2H1 S05 3.7-2M	Nome ECO RAYS TP 0F2H1 S05 3.7-2M	Numero 1
Archivio Eulumdat	Data 26-05-2016	Posizione

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

	Tabella Intensità Luminosa - cd/klm						Tabella 10/18						
	C 195.00	C 200.00	C 205.00	C 210.00	C 215.00	C 220.00	C 225.00	C 230.00	C 235.00	C 240.00	C 245.00	C 250.00	C 255.00
G 73.0	32.88	26.37	9.24	17.21	32.59	39.64	35.32	31.23	26.21	22.99	20.04	18.42	17.34
G 74.0	29.99	23.55	8.13	16.65	30.13	34.81	30.58	27.10	22.78	20.04	17.80	16.64	15.51
G 75.0	27.31	20.56	7.07	15.86	26.42	29.98	26.34	23.29	19.73	17.44	15.69	14.91	13.87
G 76.0	24.35	17.59	6.11	14.49	22.79	25.15	22.60	19.88	17.20	15.40	13.72	13.04	12.13
G 77.0	21.26	14.96	5.32	12.61	18.87	21.07	18.67	17.25	14.69	13.34	11.92	11.28	10.45
G 78.0	17.91	12.26	4.54	10.57	15.66	17.00	15.69	14.33	12.32	11.27	9.96	9.36	8.73
G 79.0	14.95	9.96	3.91	8.70	12.86	14.21	12.54	11.56	10.06	9.00	7.91	7.63	7.09
G 80.0	12.17	7.81	3.26	7.18	10.34	11.44	9.89	9.12	7.63	7.06	6.44	6.34	6.17
G 81.0	9.70	6.05	2.74	5.74	7.98	8.80	7.56	6.95	6.13	5.88	5.57	5.57	5.40
G 82.0	7.41	4.61	2.24	4.37	5.74	6.57	5.80	5.59	5.07	4.98	4.80	4.84	4.68
G 83.0	5.50	3.47	1.82	3.19	3.98	4.78	4.59	4.52	4.20	4.16	4.01	4.08	3.91
G 84.0	4.06	2.56	1.42	2.20	2.84	3.68	3.53	3.60	3.34	3.34	3.20	3.30	3.21
G 85.0	2.74	1.88	1.09	1.52	2.09	2.68	2.65	2.70	2.59	2.68	2.54	2.62	2.57
G 86.0	1.81	1.32	0.81	1.05	1.43	1.91	1.96	2.02	1.97	2.04	1.96	2.05	1.97
G 87.0	1.10	0.91	0.59	0.68	0.94	1.29	1.32	1.37	1.35	1.43	1.33	1.44	1.37
G 88.0	0.67	0.60	0.46	0.46	0.56	0.68	0.65	0.64	0.65	0.63	0.56	0.60	0.58
G 89.0	0.43	0.42	0.39	0.36	0.34	0.32	0.29	0.25	0.21	0.18	0.16	0.13	0.12
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S05 3.7-2M	Codice AEC19109	Codice L-ECR-0F2H1-3000-700-2M
Nome ECO RAYS TP 0F2H1 S05 3.7-2M	Nome ECO RAYS TP 0F2H1 S05 3.7-2M	Numero 1
Archivio Eulumdat	Data 26-05-2016	Posizione

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

	Tabella Intensità Luminose - cd/klm						Tabella 11/18						
	C 260.00	C 265.00	C 270.00	C 275.00	C 280.00	C 285.00	C 290.00	C 295.00	C 300.00	C 305.00	C 310.00	C 315.00	C 320.00
G 73.0	16.84	16.29	16.31	16.29	16.84	17.34	18.42	20.04	22.99	26.21	31.23	35.32	39.64
G 74.0	15.19	14.56	14.74	14.56	15.19	15.51	16.64	17.80	20.04	22.78	27.10	30.58	34.81
G 75.0	13.72	13.05	13.25	13.05	13.72	13.87	14.91	15.69	17.44	19.73	23.29	26.34	29.98
G 76.0	12.05	11.55	11.53	11.55	12.05	12.13	13.04	13.72	15.40	17.20	19.88	22.60	25.15
G 77.0	10.21	9.88	9.98	9.88	10.21	10.45	11.28	11.92	13.34	14.69	17.25	18.67	21.07
G 78.0	8.59	8.30	8.47	8.30	8.59	8.73	9.36	9.96	11.27	12.32	14.33	15.69	17.00
G 79.0	7.12	6.87	6.91	6.87	7.12	7.09	7.63	7.91	9.00	10.06	11.56	12.54	14.21
G 80.0	6.17	6.06	6.11	6.06	6.17	6.17	6.34	6.44	7.06	7.63	9.12	9.89	11.44
G 81.0	5.41	5.33	5.34	5.33	5.41	5.40	5.57	5.57	5.88	6.13	6.95	7.56	8.80
G 82.0	4.70	4.62	4.64	4.62	4.70	4.68	4.84	4.80	4.98	5.07	5.59	5.80	6.57
G 83.0	4.02	3.87	3.91	3.87	4.02	3.91	4.08	4.01	4.16	4.20	4.52	4.59	4.78
G 84.0	3.27	3.13	3.24	3.13	3.27	3.21	3.30	3.20	3.34	3.34	3.60	3.53	3.68
G 85.0	2.62	2.55	2.59	2.55	2.62	2.57	2.62	2.54	2.68	2.59	2.70	2.65	2.68
G 86.0	2.03	1.96	2.02	1.96	2.03	1.97	2.05	1.96	2.04	1.97	2.02	1.96	1.91
G 87.0	1.50	1.41	1.46	1.41	1.50	1.37	1.44	1.33	1.43	1.35	1.37	1.32	1.29
G 88.0	0.60	0.50	0.56	0.50	0.60	0.58	0.60	0.56	0.63	0.65	0.64	0.65	0.68
G 89.0	0.11	0.11	0.11	0.11	0.11	0.12	0.13	0.16	0.18	0.21	0.25	0.29	0.32
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S05 3.7-2M	Codice	AEC19109	Codice	L-ECR-0F2H1-3000-700-2M
Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Numero	1
Archivio	Eulumdat	Data	26-05-2016	Posizione	

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 12/18

	C 325.00	C 330.00	C 335.00	C 340.00	C 345.00	C 350.00	C 355.00
G 73.0	32.59	17.21	9.24	26.37	32.88	60.58	120.61
G 74.0	30.13	16.65	8.13	23.55	29.99	52.11	106.92
G 75.0	26.42	15.86	7.07	20.56	27.31	44.14	94.10
G 76.0	22.79	14.49	6.11	17.59	24.35	35.71	78.07
G 77.0	18.87	12.61	5.32	14.96	21.26	27.31	57.16
G 78.0	15.66	10.57	4.54	12.26	17.91	21.43	39.48
G 79.0	12.86	8.70	3.91	9.96	14.95	16.76	26.50
G 80.0	10.34	7.18	3.26	7.81	12.17	13.38	19.18
G 81.0	7.98	5.74	2.74	6.05	9.70	10.88	13.35
G 82.0	5.74	4.37	2.24	4.61	7.41	8.59	10.00
G 83.0	3.98	3.19	1.82	3.47	5.50	6.61	7.55
G 84.0	2.84	2.20	1.42	2.56	4.06	4.80	5.32
G 85.0	2.09	1.52	1.09	1.88	2.74	3.29	3.54
G 86.0	1.43	1.05	0.81	1.32	1.81	2.04	2.21
G 87.0	0.94	0.68	0.59	0.91	1.10	1.23	1.17
G 88.0	0.56	0.46	0.46	0.60	0.67	0.71	0.59
G 89.0	0.34	0.36	0.39	0.42	0.43	0.39	0.34
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S05 3.7-2M	Codice	AEC19109	Codice	L-ECR-0F2H1-3000-700-2M
Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Numero	1
Archivio	Eulumdat	Data	26-05-2016	Posizione	

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 13/18

	C 0.00	C 5.00	C 10.00	C 15.00	C 20.00	C 25.00	C 30.00	C 35.00	C 40.00	C 45.00	C 50.00	C 55.00	C 60.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S05 3.7-2M	Codice	AEC19109	Codice	L-ECR-0F2H1-3000-700-2M
Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Numero	1
Archivio	Eulumdat	Data	26-05-2016	Posizione	

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 14/18

	C 65.00	C 70.00	C 75.00	C 80.00	C 85.00	C 90.00	C 95.00	C 100.00	C 105.00	C 110.00	C 115.00	C 120.00	C 125.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S05 3.7-2M	Codice	AEC19109	Codice	L-ECR-0F2H1-3000-700-2M
Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Numero	1
Archivio	Eulumdat	Data	26-05-2016	Posizione	

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 15/18

	C 130.00	C 135.00	C 140.00	C 145.00	C 150.00	C 155.00	C 160.00	C 165.00	C 170.00	C 175.00	C 180.00	C 185.00	C 190.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S05 3.7-2M	Codice	AEC19109	Codice	L-ECR-0F2H1-3000-700-2M
Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Numero	1
Archivio	Eulumdat	Data	26-05-2016	Posizione	

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 16/18

	C 195.00	C 200.00	C 205.00	C 210.00	C 215.00	C 220.00	C 225.00	C 230.00	C 235.00	C 240.00	C 245.00	C 250.00	C 255.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S05 3.7-2M	Codice	AEC19109	Codice	L-ECR-0F2H1-3000-700-2M
Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Numero	1
Archivio	Eulumdat	Data	26-05-2016	Posizione	

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 17/18

	C 260.00	C 265.00	C 270.00	C 275.00	C 280.00	C 285.00	C 290.00	C 295.00	C 300.00	C 305.00	C 310.00	C 315.00	C 320.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S05 3.7-2M	Codice	AEC19109	Codice	L-ECR-0F2H1-3000-700-2M
Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Numero	1
Archivio	Eulumdat	Data	26-05-2016	Posizione	

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminosa - cd/klm Tabella 18/18

	C 325.00	C 330.00	C 335.00	C 340.00	C 345.00	C 350.00	C 355.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

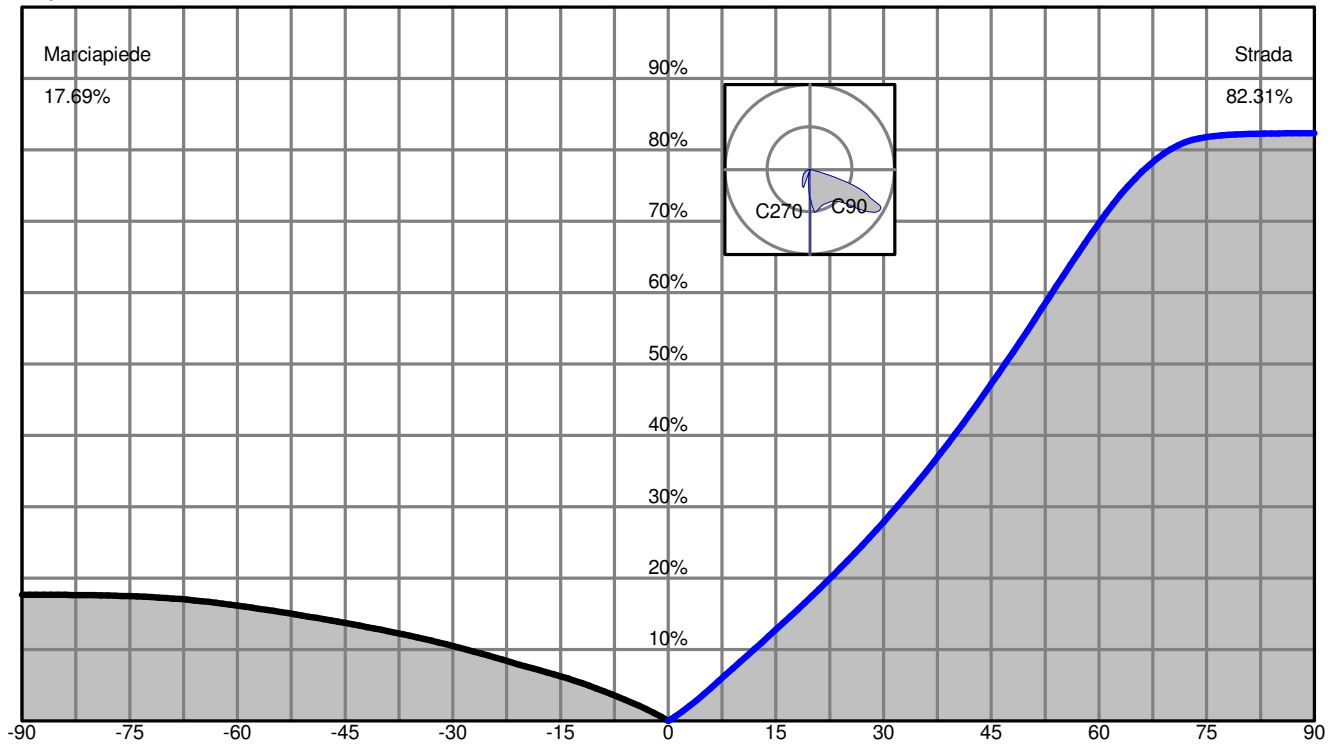
Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S05 3.7-2M	Codice	AEC19109	Codice	L-ECR-0F2H1-3000-700-2M
Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Numero	1
Archivio	Eulumdat	Data	26-05-2016	Posizione	

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Marciapiede			Strada		
Angolo	0	0.00%	Angolo	0	0.00%
Angolo	-5	2.54%	Angolo	5	3.79%
Angolo	-10	4.56%	Angolo	10	8.26%
Angolo	-15	6.27%	Angolo	15	12.80%
Angolo	-20	7.68%	Angolo	20	17.48%
Angolo	-25	9.15%	Angolo	25	22.46%
Angolo	-30	10.52%	Angolo	30	27.87%
Angolo	-35	11.72%	Angolo	35	33.78%
Angolo	-40	12.78%	Angolo	40	40.24%
Angolo	-45	13.74%	Angolo	45	47.21%
Angolo	-50	14.61%	Angolo	50	54.63%
Angolo	-55	15.42%	Angolo	55	62.32%
Angolo	-60	16.16%	Angolo	60	69.73%
Angolo	-65	16.79%	Angolo	65	75.93%
Angolo	-70	17.23%	Angolo	70	80.07%
Angolo	-75	17.49%	Angolo	75	81.80%
Angolo	-80	17.62%	Angolo	80	82.19%
Angolo	-85	17.67%	Angolo	85	82.29%
Angolo	-90	17.69%	Angolo	90	82.31%

Angolo Inclinazione = 0.0

DLOR = 100.00%



Spread	61.4° Largo	DLOR	100.00000 %
Throw	57.9° Corto	ULOR	0.00000 %
SLI	5.5 Ristretto	Rendimento	100.00000 %
Cutoff CIE	Cutoff - Max: C=45.0° Gamma=59.0°	RN	0.00000 %
Cutoff Iesna	Full Cutoff	Classe Intensità Luminosa	G*4
DIN5044	KB2	Indice Abbagliamento	D4
IESNA Type III Short Asymmetrical			

Apparecchio		Rilievo		Lampada			
Codice	ECO RAYS TP 0F2H1 S05 3.7-2M	Codice	AEC19109	Codice	L-ECR-0F2H1-3000-700-2M		
Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Numero	1		
Archivio	Eulumdat	Data	26-05-2016	Posizione			
Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

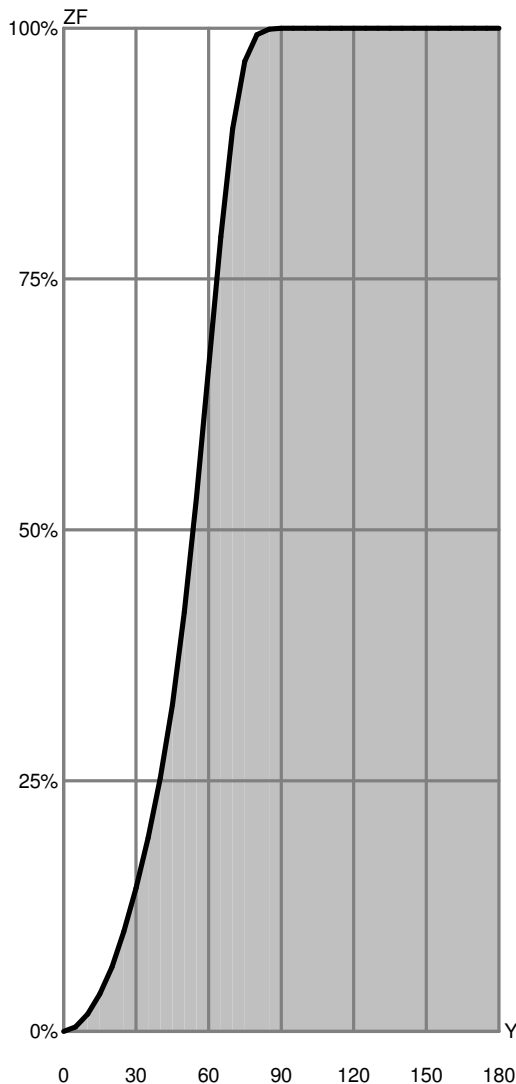
Flusso Totale=3760.00 Flusso Apparecchio=3760.00

RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.16	0.25	0.32	0.41	0.47	0.58	0.66	0.71	0.78	0.83	0.92	0.97
RC	9	8	8	8	7	7	7	7	6	6	5	3

Flusso Zonale per 1000 lumen																		
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	17	64	143	253	418	662	900	993	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

CODICI DI FLUSSO CIE
27 66 96 100 100

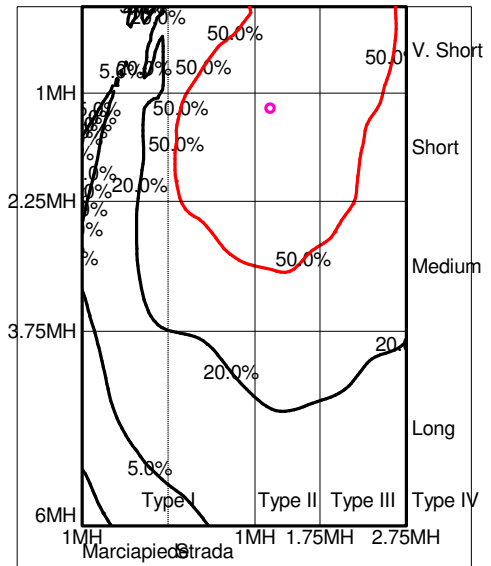
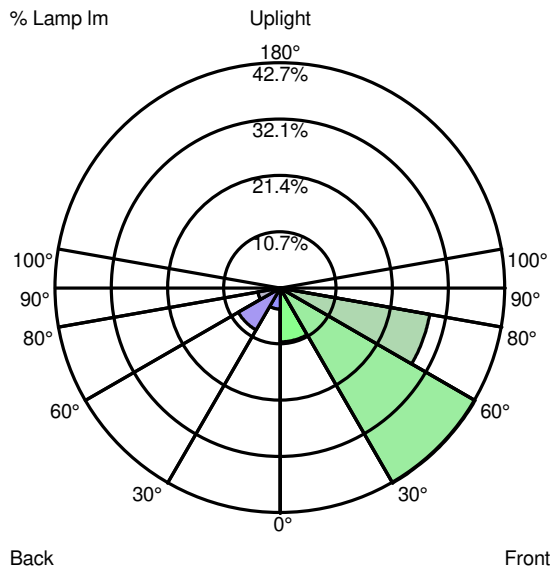
C.I.E.	9/8/8/8/7/7/6/6/5/3	LOR	100.00000 %
D DIN 5040	A10	ULOR	0.00000 %
F UTE	1.00 I	DLOR	100.00000 %
B NBN	BZ 7 / 1 / BZ 6 / 2.5 / BZ 5	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %



Flusso Zonale				
Gamma °	Flusso	Somma lm	Flusso [%]	Somma [%]
0°	0.00	0.00	0.00%	0.00%
5°	4.36	4.36	0.44%	0.44%
10°	12.94	17.29	1.29%	1.73%
15°	20.15	37.44	2.01%	3.74%
20°	26.78	64.23	2.68%	6.42%
25°	35.43	99.66	3.54%	9.97%
30°	43.02	142.68	4.30%	14.27%
35°	50.47	193.15	5.05%	19.32%
40°	59.56	252.71	5.96%	25.27%
45°	72.95	325.66	7.29%	32.57%
50°	92.24	417.90	9.22%	41.79%
55°	114.24	532.14	11.42%	53.21%
60°	129.79	661.93	12.98%	66.19%
65°	129.98	791.90	13.00%	79.19%
70°	107.83	899.74	10.78%	89.97%
75°	67.51	967.24	6.75%	96.72%
80°	26.23	993.47	2.62%	99.35%
85°	5.65	999.12	0.56%	99.91%
90°	0.88	1000.00	0.09%	100.00%
95°	0.00	1000.00	0.00%	100.00%
100°	0.00	1000.00	0.00%	100.00%
105°	0.00	1000.00	0.00%	100.00%
110°	0.00	1000.00	0.00%	100.00%
115°	0.00	1000.00	0.00%	100.00%
120°	0.00	1000.00	0.00%	100.00%
125°	0.00	1000.00	0.00%	100.00%
130°	0.00	1000.00	0.00%	100.00%
135°	0.00	1000.00	0.00%	100.00%
140°	0.00	1000.00	0.00%	100.00%
145°	0.00	1000.00	0.00%	100.00%
150°	0.00	1000.00	0.00%	100.00%
155°	0.00	1000.00	0.00%	100.00%
160°	0.00	1000.00	0.00%	100.00%
165°	0.00	1000.00	0.00%	100.00%
170°	0.00	1000.00	0.00%	100.00%
175°	0.00	1000.00	0.00%	100.00%
180°	0.00	1000.00	0.00%	100.00%

Apparecchio		Rilievo		Lampada		
Codice	ECO RAYS TP 0F2H1 S05 3.7-2M	Codice	AEC19109	Codice	L-ECR-0F2H1-3000-700-2M	
Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Numero	1	
Archivio	Eulumdat	Data	26-05-2016	Posizione		
Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento 100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG Asimmetrico

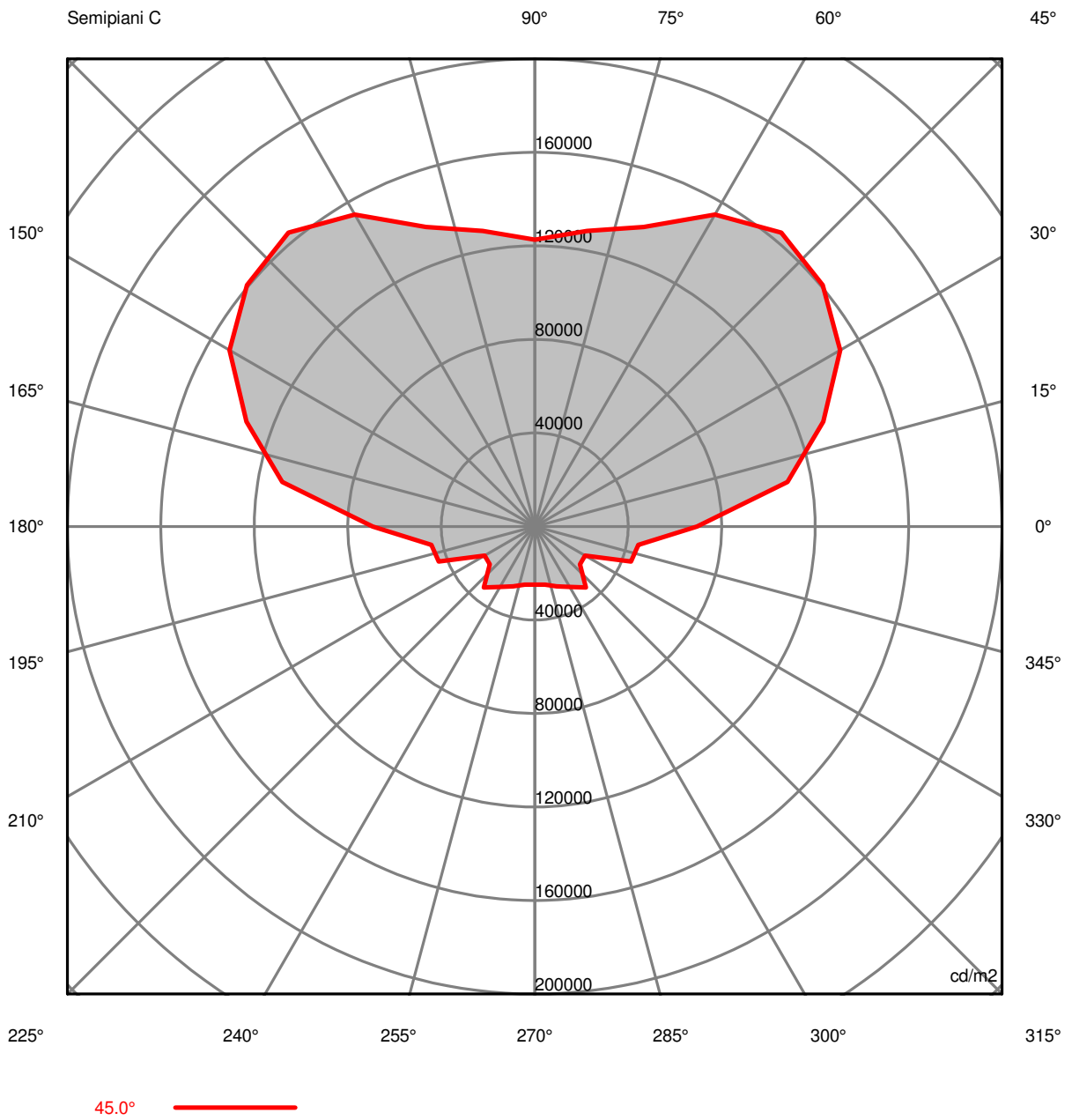
US ROAD STANDARDS



Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	385.1 lm	10.2 %	10.2 %
FM	30° -- 60°	1607.2 lm	42.7 %	42.7 %
FH	60° -- 80°	1084.9 lm	28.9 %	28.9 %
FVH	80° -- 90°	17.8 lm	0.5 %	0.5 %
BL	0° -- 30°	151.0 lm	4.0 %	4.0 %
BM	30° -- 60°	345.8 lm	9.2 %	9.2 %
BH	60° -- 80°	161.6 lm	4.3 %	4.3 %
BVH	80° -- 90°	6.6 lm	0.2 %	0.2 %
UL	90° -- 100°	0.0 lm	0.0 %	0.0 %
UH	100° -- 180°	0.0 lm	0.0 %	0.0 %
TOTALS		3760.0 lm	100.0 %	100.0 %
BUG B1 U0 G1 Type III Short Asymmetrical				

Apparecchio		Rilievo		Lampada			
Codice	ECO RAYS TP 0F2H1 S05 3.7-2M	Codice	AEC19109	Codice	L-ECR-0F2H1-3000-700-2M		
Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Numero	1		
Archivio	Eulumdat	Data	26-05-2016	Posizione			
Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Luminanza



Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S05 3.7-2M	Codice	AEC19109	Codice	L-ECR-0F2H1-3000-700-2M
Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Numero	1
Archivio	Eulumdat	Data	26-05-2016	Posizione	

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

		Luminance cd/m2												
		Tabella 1/3												
		C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00	C 100.00	C 110.00	C 120.00
G 0.0	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75
G 5.0	54043.49	56725.90	61363.82	65888.15	69683.60	72385.76	74515.82	75733.52	76301.34	74978.10	76301.34	75733.52	74515.82	74515.82
G 10.0	54612.63	63191.27	72822.57	78258.94	79906.84	78822.76	76614.94	76672.77	77218.02	74877.87	77218.02	76672.77	76614.94	76614.94
G 15.0	54409.54	68459.72	78356.05	78113.68	76652.67	75402.55	74307.27	73046.91	73921.56	71829.57	73921.56	73046.91	74307.27	74307.27
G 20.0	54718.57	73409.61	79064.18	76517.09	74633.77	73274.50	72667.49	72408.29	72397.80	71442.69	72397.80	72408.29	72667.49	72667.49
G 25.0	55754.08	78336.36	79064.33	76280.41	74904.35	74716.81	74766.70	74900.47	74244.19	74155.88	74244.19	74900.47	74766.70	74766.70
G 30.0	56626.54	82237.30	80369.74	79490.27	80176.90	81373.42	81243.41	80127.88	79393.84	78568.89	79393.84	80127.88	81243.41	81243.41
G 35.0	58600.67	85696.02	85456.34	89286.33	93454.44	95595.93	93493.55	89934.23	87583.79	85278.83	87583.79	89934.23	93493.55	93493.55
G 40.0	61698.44	92734.35	99619.62	111459.35	118416.53	121911.61	115643.62	106655.81	101843.99	98615.54	101843.99	106655.81	115643.62	115643.62
G 45.0	69429.07	109769.89	131327.48	150879.19	160751.72	164051.33	154153.44	136325.51	128395.32	122709.00	128395.32	136325.51	154153.44	154153.44
G 50.0	86490.83	143012.68	178537.17	204856.10	214549.62	218227.06	204070.25	187181.03	179184.30	173069.71	179184.30	187181.03	204070.25	204070.25
G 55.0	110400.69	186118.45	228703.36	267282.49	274094.79	273713.85	258016.37	243717.21	245526.72	239011.37	245526.72	243717.21	258016.37	258016.37
G 60.0	138746.84	211364.67	270013.43	316831.78	318151.51	318200.67	299135.64	292737.72	294753.46	290103.10	294753.46	292737.72	299135.64	299135.64
G 65.0	168501.78	230330.69	304834.43	342784.48	319513.53	324388.62	301987.58	277924.34	285791.82	271878.08	285791.82	277924.34	301987.58	301987.58
G 70.0	178068.65	220833.41	304013.37	316618.09	306036.45	259106.05	222719.55	219203.60	214907.79	209674.91	214907.79	219203.60	222719.55	222719.55
G 75.0	126938.66	164777.28	245857.23	225279.29	226719.03	152030.25	97055.90	86597.21	73664.15	70063.83	73664.15	86597.21	97055.90	97055.90
G 80.0	42557.20	80475.86	106538.77	76447.28	55833.66	33615.48	26923.39	23904.79	21250.99	20742.04	21250.99	23904.79	26923.39	26923.39
G 85.0	18345.52	31106.35	26870.77	19855.52	18590.15	15418.26	13586.10	12384.42	11652.79	11958.24	11652.79	12384.42	13586.10	13586.10
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S05 3.7-2M	Codice	AEC19109	Codice	L-ECR-0F2H1-3000-700-2M
Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Nome	ECO RAYS TP 0F2H1 S05 3.7-2M	Numero	1
Archivio	Eulumdat	Data	26-05-2016	Posizione	

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
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Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico
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Luminance cd/m2 Tabella 2/3

	C 130.00	C 140.00	C 150.00	C 160.00	C 170.00	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00
G 0.0	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75
G 5.0	72385.76	69683.60	65888.15	61363.82	56725.90	54043.49	49215.00	43272.56	39158.00	32547.98	32349.12	31615.36	30460.08
G 10.0	78822.76	79906.84	78258.94	72822.57	63191.27	54612.63	43698.98	35844.34	34567.41	34802.42	31696.17	17679.67	11423.17
G 15.0	75402.55	76652.67	78113.68	78356.05	68459.72	54409.54	39873.47	35097.97	36399.45	31920.99	24760.19	9141.35	3621.96
G 20.0	73274.50	74633.77	76517.09	79064.18	73409.61	54718.57	34867.27	36324.68	36850.66	30702.71	9662.07	7697.60	16275.36
G 25.0	74716.81	74904.35	76280.41	79064.33	78336.36	55754.08	33325.61	37616.41	34502.83	19709.86	9708.12	32523.10	37516.33
G 30.0	81373.42	80176.90	79490.27	80369.74	82237.30	56626.54	34812.86	39340.12	34712.99	11282.89	29570.30	36446.84	34352.59
G 35.0	95595.93	93454.44	89286.33	85456.34	85696.02	58600.67	37033.03	41180.48	34125.32	10945.19	36110.75	33746.46	31162.35
G 40.0	121911.61	118416.53	111459.35	99619.62	92734.35	61698.44	40115.05	42729.62	31281.05	17760.27	35354.01	31427.46	28722.08
G 45.0	164051.33	160751.72	150879.19	131327.48	109769.89	69429.07	44991.18	43763.23	24806.36	25125.21	33919.20	29786.41	27155.06
G 50.0	218227.06	214549.62	204856.10	178537.17	143012.68	86490.83	52250.95	42983.88	18147.75	28695.96	33366.62	28988.00	26165.77
G 55.0	273713.85	274094.79	267282.49	228703.36	186118.45	110400.69	60118.55	39403.78	13464.88	31764.45	34201.04	29658.50	26419.09
G 60.0	318200.67	318151.51	316831.78	270013.43	211364.67	138746.84	64038.50	35546.96	11643.66	35521.52	36880.37	30734.93	26776.18
G 65.0	324388.62	319513.53	342784.48	304834.43	230330.69	168501.78	70731.72	32397.90	12127.74	40416.64	39173.48	31638.69	26263.36
G 70.0	259106.05	306036.45	316618.09	304013.37	220833.41	178068.65	70680.02	29136.07	14934.57	41862.38	36665.36	27458.59	21562.87
G 75.0	152030.25	226719.03	225279.29	245857.23	164777.28	126938.66	48578.50	22628.15	17457.26	32991.12	25627.93	19197.50	16408.89
G 80.0	33615.48	55833.66	76447.28	106538.77	80475.86	42557.20	21947.42	12808.26	11783.73	18758.81	14956.38	11588.48	10392.53
G 85.0	15418.26	18590.15	19855.52	26870.77	31106.35	18345.52	10764.50	6155.43	4962.84	8767.40	8820.05	8746.67	8572.38
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S05 3.7-2M	Codice AEC19109	Codice L-ECR-0F2H1-3000-700-2M
Nome ECO RAYS TP 0F2H1 S05 3.7-2M	Nome ECO RAYS TP 0F2H1 S05 3.7-2M	Numero 1
Archivio Eulumdat	Data 26-05-2016	Posizione

Flusso Apparecchio	3760.00 lm	Potenza Apparecchio	41.00 W	Efficacia	91.71 lm/W	Rendimento	100.00%
Flusso Lampade	3760.00 lm	Valore Massimo	573.63 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Luminance cd/m2 Tabella 3/3

	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75	52362.75
G 5.0	28846.35	26878.25	28846.35	30460.08	31615.36	32349.12	32547.98	39158.00	43272.56	49215.00
G 10.0	5550.74	226.68	5550.74	11423.17	17679.67	31696.17	34802.42	34567.41	35844.34	43698.98
G 15.0	4005.09	4314.63	4005.09	3621.96	9141.35	24760.19	31920.99	36399.45	35097.97	39873.47
G 20.0	30497.32	35633.58	30497.32	16275.36	7697.60	9662.07	30702.71	36850.66	36324.68	34867.27
G 25.0	35701.43	34810.74	35701.43	37516.33	32523.10	9708.12	19709.86	34502.83	37616.41	33325.61
G 30.0	32326.18	31848.61	32326.18	34352.59	36446.84	29570.30	11282.89	34712.99	39340.12	34812.86
G 35.0	29064.88	28777.68	29064.88	31162.35	33746.46	36110.75	10945.19	34125.32	41180.48	37033.03
G 40.0	26794.09	26437.84	26794.09	28722.08	31427.46	35354.01	17760.27	31281.05	42729.62	40115.05
G 45.0	25233.66	24791.03	25233.66	27155.06	29786.41	33919.20	25125.21	24806.36	43763.23	44991.18
G 50.0	24335.28	23745.88	24335.28	26165.77	28988.00	33366.62	28695.96	18147.75	42983.88	52250.95
G 55.0	24356.45	23699.16	24356.45	26419.09	29658.50	34201.04	31764.45	13464.88	39403.78	60118.55
G 60.0	24425.85	23613.22	24425.85	26776.18	30734.93	36880.37	35521.52	11643.66	35546.96	64038.50
G 65.0	23294.56	22283.38	23294.56	26263.36	31638.69	39173.48	40416.64	12127.74	32397.90	70731.72
G 70.0	19126.74	18254.81	19126.74	21562.87	27458.59	36665.36	41862.38	14934.57	29136.07	70680.02
G 75.0	15101.74	14579.08	15101.74	16408.89	19197.50	25627.93	32991.12	17457.26	22628.15	48578.50
G 80.0	10121.31	10022.23	10121.31	10392.53	11588.48	14956.38	18758.81	11783.73	12808.26	21947.42
G 85.0	8564.63	8459.16	8564.63	8572.38	8746.67	8820.05	8767.40	4962.84	6155.43	10764.50
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Photometric Test Report



Costruttore	AEC ILLUMINAZIONE SRL
Tipo di prodotto	Outdoor Lighting Luminaire
Codice fotometria	ECO RAYS TP 0F3 STE-M 3.7-2M
Codice apparecchio	ECO RAYS TP 0F3 STE-M 3.7-2M
Rilievo fotometrico	18-009-2182
Descrizione apparecchio	ECO RAYS TP 0F3 STE-M 3.7-2M
Data delle prove	27-03-2018

Foto del prodotto



Responsabile laboratorio fotometrico	Luca Vagheggi	
Tecnico laboratorio che ha eseguito la misura	Alessio Vagheggi	



Photometric Test Report



Sommario e Allegati

Sommario	Dati apparecchio	
	Normative di riferimento	
	Procedure di riferimento	
	Condizioni di prova	
	Risultati fotometrici	
	Lista strumentazione	
	Incertezza strumentale	
Allegati	Dati Generali	X
	Tabella fotometrica delle Intensità (cd/Klm)	
	Tabella fotometrica delle Intensità (cd)	X
	Diagramma Polare	
	Diagramma Cartesiano	
	Valutazione UGR	
	Diagramma Sollner Abbagliamento	
	Flusso Zonale	X
	Coefficienti di Utilizzazione	
	Isolux Unitario	
	Isocandele Percentuale	
	Tabella e Diagramma Luminanza	
	Classificazione Strade	X
Classificazione Strade IES TM-15		



Photometric Test Report



DATI APPARECCHIO

Geometria apparecchio	Circolare		
Dimensioni apparecchio (mm)	Lunghezza / Diametro	Larghezza	Altezza
	497	497	81
Dimensioni area luminosa (mm)	Lunghezza / Diametro	Larghezza	Altezza C0
	60	220	0
	Altezza C90	Altezza C180	Altezza C270
	0	0	0
Tipo sorgente	LED		
Modello sorgente	Luxeon- Mx		
Tipo Alimentatore	Elettronico / Electronic		
Modello Alimentatore	Osram OT/Philips Xi		

NORMATIVE DI RIFERIMENTO

Normative di riferimento	UNI EN 13032-1:2012 UNI EN 13032-4:2015 IES LM-79-08
Valutazione luce parassita	In accordo con Annex A UNI EN 13032-1

PROCEDURE DI RIFERIMENTO

Procedure di riferimento	I-QL-009
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Photometric Test Report



CONDIZIONI DI PROVA

Laboratorio fotometrico	Interno AEC ILLUMINAZIONE srl, in regime di sistema di qualità aziendale certificato ISO 9001:2008, autorizzato UL	
Condizioni Ambientali	Temperatura ambiente (°C)	25 ± 1
	Umidità relativa (°RH)	< 60
	Movimento aria (m/s)	< 0,2
Condizioni Elettriche	Tensione di alimentazione	230V AC ± 0,2%
	Frequenza di alimentazione	50 Hz ± 0,1%
	Distorsione armonica THD V	< 0,5%
Condizioni Preliminari Prova	Metodo di misura	Goniofotometro Sfera- spettrometro
	Sistema di riferimento misura	Sistema C-γ (Gonio) Integrale (Sfera)
	Posizione di misura	Verticale (Gonio) Orizzontale (Sfera)
	Distanza di misura (m)	9,03
	Tempo di stabilizzazione (min)	120
	Instabilità sorgente	< 0,5%

I risultati delle verifiche e prove qui riportati, si riferiscono esclusivamente agli esemplari esaminati e descritti nella presente Relazione. L'estensione del riferimento ad esemplari che non siano quelli sottoposti alle verifiche descritte in seguito esula dallo scopo delle verifiche stesse. E' vietata la riproduzione integrale o parziale senza l'autorizzazione scritta di Aec illuminazione srl. L'immagine dell'apparecchio nella prima pagina è puramente indicativa della tipologia di apparecchio sottoposto a test.



Photometric Test Report



RISULTATI FOTOMETRICI

Tipo di misura fotometrica	Assoluta
LOR (%)	100.0
Flusso luminoso apparecchio (lm)	5710
Potenza ingresso apparecchio (W)	52.0
Efficienza apparecchio (lm/W)	110
Note e commenti	

LISTA STRUMENTAZIONE

CODICE AEC	STRUMENTO	COSTRUTTORE	MODELLO
Q129	Luxmetro	Czibula&Grundmann	100310
Q130	Goniofotometro	Oxytech	T2
Q131	Termoigrometro	Delta Ohm	HD2001
Q132	Wattmetro	N4L	PPA2510
Q135	Stabilizzatore	Elettrotest	TPS/M/9KW
Q190	Sfera Integratrice	Labsphere	LMS65
Q195	Spettrometro	Labsphere	CDS610
Q205	Luxmetro	Czibula&Grundmann	161206

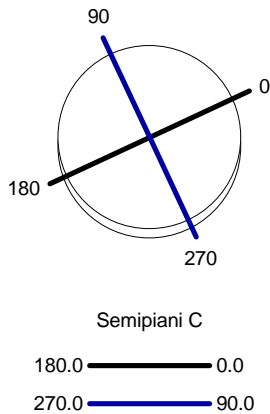
INCERTEZZA STRUMENTALE

Encoder goniofotometro Oxytech T2	Precisione angolare in C – gamma	$\pm 0.044^\circ$
Luxmetro C&G	f1'	< 1.23%
Spettrometro	Incerteza lunghezza d'onda	< 0.5nm
	Incerteza coordinate cromatiche	± 0.003
Wattmetro Kinetiq N4L PPA2510	Accuratezza di potenza	< [0.05% + 0.03%/pf + (0.01%/kHz)/pf] Rdg + 0.05%VA Rng

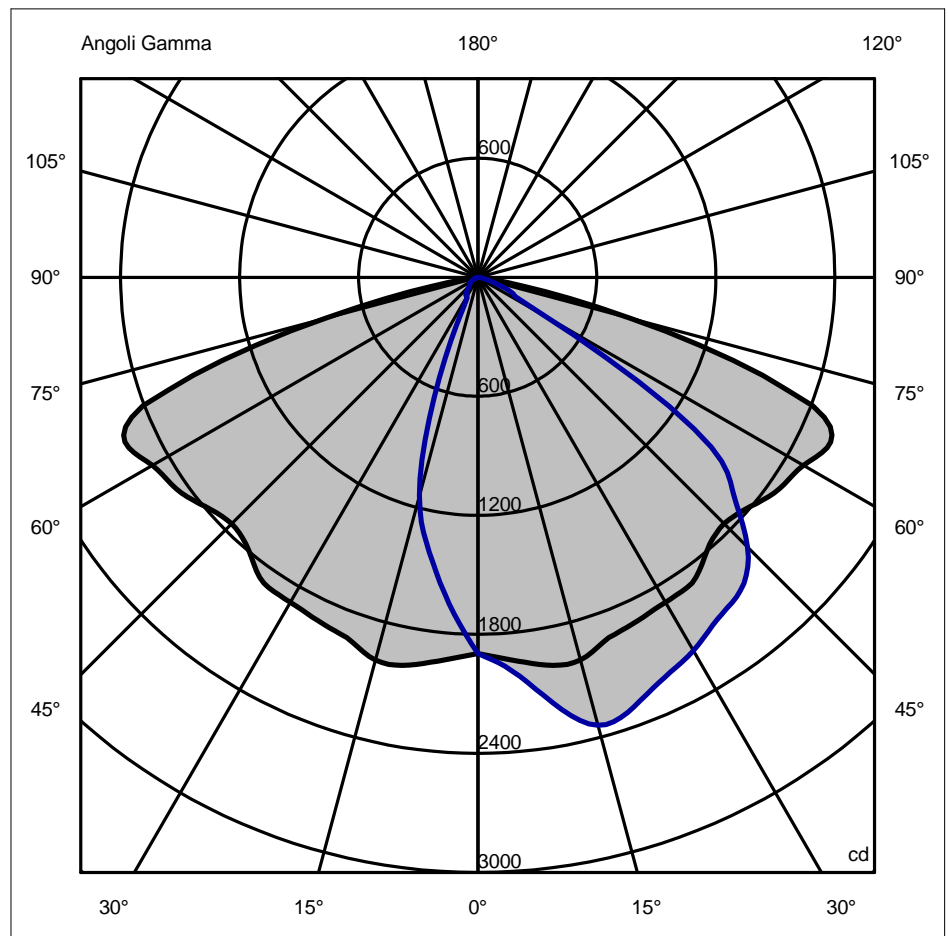


Apparecchio		Rilievo		Lampada			
Codice	ECO RAYS TP 0F3 STE-M 3.7-2M	Codice	18-009-2182	Codice	L-ECR-0F3-3000-700-2M-70-25		
Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Numero	1		
Archivio	Eulumdat	Data	27-03-2018	Posizione			
Flusso Apparecchio	5710.00 lm	Potenza Apparecchio	52.00 W	Efficacia	109.81 lm/W	Rendimento	100.00%
Flusso Lampade	5710.00 lm	Valore Massimo	3557.13 cd	Posizione	C=30.00 G=61.00	CG	Asimmetrico
Apparecchio Circolare	Diam.	497 mm	Alt.	81 mm	Alt.		0 mm
Area Luminosa Rettangolare	Lung.	60 mm	Larg.	220 mm			
Area Luminosa Orizzontale		0.013200 m2	Area Luminosa Piano 180°		0.000000 m2		
Area Luminosa Piano 0°		0.000000 m2	Area Luminosa Piano 270°		0.000000 m2		
Area Luminosa Piano 90°		0.000000 m2	Area Luminosa a 76°		0.003193 m2		
Sistema Coordinate	CG	Tipo di Simmetria		Asimmetrico			
Data	27-03-2018	Massimo Angolo Gamma		180			
Lampade Apparecchio							
Archivio	Codice	Nome	Flusso [lm]	Pot. [W]	Q.tà		
	L-ECR-0F3-3000-700-2M-70-25	L-ECR-0F3-3000-700-2M-70-25 - 52.00 W	5710.00	52.00	1		
C.I.E.	43 78 98 100 100	D DIN 5040	A30				
F UTE	1.00 E	B NBN	BZ 5 / 2 / BZ 4				

Diam=497mm



ULOR 0.00 %
DLOR 100.00 %
RN 0.00 %



Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F3 STE-M 3.7-2M	Codice	18-009-2182	Codice	L-ECR-0F3-3000-700-2M-70-25
Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	5710.00 lm	Potenza Apparecchio	52.00 W	Efficacia	109.81 lm/W	Rendimento	100.00%
Flusso Lampade	5710.00 lm	Valore Massimo	3557.13 cd	Posizione	C=30.00 G=61.00	CG	Asimmetrico

	Tabella Intensità Luminose - cd				Tabella 6/18			
	C 325.00	C 330.00	C 335.00	C 340.00	C 345.00	C 350.00	C 355.00	
G 0.0	1895.75	1895.75	1895.75	1895.75	1895.75	1895.75	1895.75	
G 1.0	1889.21	1890.10	1894.40	1897.15	1897.28	1900.54	1901.03	
G 2.0	1881.68	1884.11	1892.67	1897.77	1898.48	1905.22	1906.50	
G 3.0	1872.19	1877.47	1890.18	1896.87	1899.03	1909.72	1912.36	
G 4.0	1859.74	1869.85	1886.55	1893.66	1898.61	1913.94	1918.82	
G 5.0	1843.35	1860.92	1881.41	1887.39	1896.91	1917.78	1926.07	
G 6.0	1822.37	1841.66	1864.87	1877.51	1894.56	1921.06	1934.12	
G 7.0	1797.44	1818.03	1843.51	1864.33	1890.79	1923.26	1942.30	
G 8.0	1769.55	1791.46	1818.93	1848.37	1885.77	1923.76	1949.72	
G 9.0	1739.66	1763.36	1792.74	1830.18	1879.69	1921.96	1955.52	
G 10.0	1708.76	1735.16	1766.54	1810.28	1872.74	1917.24	1958.83	
G 11.0	1677.56	1707.90	1741.60	1789.20	1859.39	1909.21	1958.99	
G 12.0	1645.78	1681.22	1717.85	1767.54	1843.13	1898.37	1956.17	
G 13.0	1612.87	1654.35	1694.87	1745.85	1824.83	1885.44	1950.76	
G 14.0	1578.28	1626.57	1672.26	1724.74	1805.35	1871.13	1943.16	
G 15.0	1541.48	1597.11	1649.60	1704.77	1785.57	1856.16	1933.74	
G 16.0	1502.36	1565.66	1626.64	1686.37	1766.22	1841.14	1922.89	
G 17.0	1462.57	1533.49	1603.77	1669.26	1747.60	1826.17	1910.96	
G 18.0	1424.21	1502.30	1581.52	1653.01	1729.87	1811.27	1898.30	
G 19.0	1389.37	1473.78	1560.45	1637.19	1713.18	1796.43	1885.24	
G 20.0	1360.16	1449.63	1541.10	1621.36	1697.71	1781.66	1872.12	
G 21.0	1337.94	1430.95	1523.78	1605.24	1683.55	1766.96	1859.28	
G 22.0	1321.17	1416.40	1507.90	1589.18	1670.56	1752.44	1846.90	
G 23.0	1307.57	1404.06	1492.66	1573.67	1658.53	1738.19	1835.15	
G 24.0	1294.88	1391.99	1477.21	1559.22	1647.24	1724.34	1824.22	
G 25.0	1280.82	1378.27	1460.76	1546.32	1636.48	1710.99	1814.27	
G 26.0	1263.27	1361.41	1442.79	1535.22	1625.99	1698.23	1805.39	
G 27.0	1240.69	1341.63	1424.06	1525.14	1615.32	1686.10	1797.33	
G 28.0	1211.66	1319.62	1405.65	1515.07	1603.96	1674.64	1789.78	
G 29.0	1174.78	1296.06	1388.62	1503.98	1591.41	1663.87	1782.38	
G 30.0	1128.66	1271.61	1374.05	1490.84	1577.16	1653.82	1774.83	
G 31.0	1072.34	1246.39	1362.40	1474.92	1560.92	1644.38	1766.73	
G 32.0	1006.67	1218.22	1351.67	1456.71	1543.17	1634.93	1757.50	
G 33.0	932.95	1184.36	1339.27	1436.96	1524.62	1624.71	1746.52	
G 34.0	852.48	1142.07	1322.58	1416.47	1505.97	1612.97	1733.14	
G 35.0	766.56	1088.61	1299.01	1396.00	1487.92	1598.96	1716.74	
G 36.0	676.96	1022.22	1266.47	1375.99	1470.92	1582.12	1696.99	
G 37.0	587.27	945.14	1225.03	1355.58	1454.35	1562.74	1674.76	
G 38.0	501.56	860.60	1175.26	1333.58	1437.36	1541.31	1651.25	
G 39.0	423.90	771.81	1117.75	1308.77	1419.09	1518.33	1627.63	
G 40.0	358.34	682.00	1053.08	1279.98	1398.68	1494.29	1605.09	
G 41.0	307.86	594.30	982.05	1246.23	1375.65	1469.83	1584.74	
G 42.0	271.02	511.42	906.30	1207.55	1351.01	1446.16	1567.38	
G 43.0	245.29	435.98	827.70	1164.20	1326.17	1424.65	1553.74	
G 44.0	228.12	370.61	748.12	1116.43	1302.51	1406.66	1544.53	
G 45.0	217.00	317.90	669.42	1064.51	1281.44	1393.54	1540.49	
G 46.0	209.65	279.58	593.44	1008.62	1263.43	1385.86	1541.85	
G 47.0	204.87	253.71	521.96	948.70	1245.31	1380.98	1546.94	
G 48.0	201.72	237.42	456.74	884.59	1222.99	1375.43	1553.59	
G 49.0	199.27	227.87	399.54	816.15	1192.38	1365.78	1559.63	
G 50.0	196.59	222.22	352.13	743.23	1149.38	1348.58	1562.89	
G 51.0	192.99	218.04	315.63	666.38	1091.25	1321.27	1561.67	
G 52.0	188.82	214.72	288.73	588.83	1020.61	1284.96	1556.10	
G 53.0	184.68	212.04	269.48	514.51	941.47	1241.62	1546.78	
G 54.0	181.16	209.82	255.94	447.35	857.78	1193.26	1534.29	
G 55.0	178.86	207.87	246.16	391.26	773.54	1141.86	1519.23	
G 56.0	178.17	206.22	238.44	349.03	692.34	1089.16	1502.22	
G 57.0	178.61	203.93	232.05	318.85	616.24	1035.89	1484.00	
G 58.0	179.47	201.36	226.50	297.78	546.91	982.51	1465.35	
G 59.0	180.07	198.87	221.32	282.87	486.04	929.48	1447.04	
G 60.0	179.71	196.82	216.00	271.17	435.30	877.28	1429.84	
G 61.0	177.91	193.56	210.20	260.24	395.67	826.22	1413.91	
G 62.0	175.08	189.96	204.05	249.58	365.31	776.02	1397.02	
G 63.0	171.86	186.21	197.81	239.21	341.67	726.24	1376.31	
G 64.0	168.87	182.50	191.76	229.14	322.21	676.45	1348.94	
G 65.0	166.74	179.02	186.15	219.38	304.40	626.22	1312.05	
G 66.0	165.86	175.84	181.13	209.90	286.16	575.28	1263.23	
G 67.0	165.65	172.64	176.33	200.55	267.32	524.06	1201.75	
G 68.0	165.27	168.99	171.27	191.11	248.17	473.17	1127.35	
G 69.0	163.89	164.46	165.44	181.39	228.99	423.20	1039.72	
G 70.0	156.66	154.64	154.42	166.91	204.84	365.39	915.13	
G 71.0	151.10	147.31	145.95	156.32	186.89	320.19	804.21	
G 72.0	143.10	138.36	135.99	144.99	169.32	277.39	686.30	

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F3 STE-M 3.7-2M	Codice	18-009-2182	Codice	L-ECR-0F3-3000-700-2M-70-25
Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	5710.00 lm	Potenza Apparecchio	52.00 W	Efficacia	109.81 lm/W	Rendimento	100.00%
Flusso Lampade	5710.00 lm	Valore Massimo	3557.13 cd	Posizione	C=30.00 G=61.00	CG	Asimmetrico

Tabella Intensità Luminosa - cd Tabella 7/18

	C 0.00	C 5.00	C 10.00	C 15.00	C 20.00	C 25.00	C 30.00	C 35.00	C 40.00	C 45.00	C 50.00	C 55.00	C 60.00
G 73.0	1169.57	1727.51	2056.67	2161.47	2048.04	1825.69	1214.50	606.48	240.84	150.04	134.94	129.44	123.10
G 74.0	981.31	1498.80	1799.16	1881.73	1763.44	1535.99	959.79	449.61	191.25	131.25	120.68	109.88	101.97
G 75.0	797.89	1259.87	1526.66	1591.53	1476.83	1255.83	734.00	323.05	154.87	117.53	107.88	92.10	82.30
G 76.0	628.51	1020.06	1248.09	1300.92	1197.66	996.44	545.87	228.44	125.36	103.73	94.20	77.03	66.16
G 77.0	476.94	789.23	975.56	1020.95	934.51	762.97	394.11	161.41	100.95	89.33	79.80	64.53	53.48
G 78.0	345.59	577.39	722.01	762.91	695.74	559.07	274.93	116.06	80.97	75.03	65.52	54.15	43.61
G 79.0	236.90	394.54	500.35	538.11	489.73	388.37	184.52	86.49	64.78	61.49	52.16	45.45	35.92
G 80.0	153.29	250.70	323.50	357.84	324.84	254.52	119.10	66.81	51.70	49.38	40.55	38.01	29.78
G 81.0	95.83	152.47	200.26	229.67	206.49	159.26	74.77	52.00	41.12	39.22	31.29	31.44	24.63
G 82.0	60.11	92.87	122.92	146.24	128.16	96.70	47.21	40.51	32.62	30.88	24.16	25.62	20.26
G 83.0	40.39	61.51	79.66	96.48	80.38	59.09	31.97	31.65	25.79	24.07	18.71	20.49	16.51
G 84.0	30.93	48.01	58.64	69.31	53.69	38.62	24.65	24.73	20.23	18.51	14.49	15.99	13.25
G 85.0	25.96	41.97	48.03	53.64	38.60	27.53	20.80	19.08	15.56	13.92	11.07	12.05	10.32
G 86.0	20.81	34.95	38.13	40.33	27.22	19.32	16.82	14.12	11.45	10.04	8.08	8.62	7.63
G 87.0	15.04	26.24	27.72	27.97	17.88	12.63	12.36	9.80	7.88	6.81	5.49	5.71	5.21
G 88.0	9.30	17.05	17.70	17.09	10.52	7.38	7.91	6.17	4.90	4.23	3.32	3.34	3.13
G 89.0	4.23	8.59	8.98	8.21	5.03	3.49	3.96	3.31	2.55	2.26	1.63	1.53	1.47
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F3 STE-M 3.7-2M	Codice 18-009-2182	Codice L-ECR-0F3-3000-700-2M-70-25
Nome ECO RAYS TP 0F3 STE-M 3.7-2M	Nome ECO RAYS TP 0F3 STE-M 3.7-2M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	5710.00 lm	Potenza Apparecchio	52.00 W	Efficacia	109.81 lm/W	Rendimento	100.00%
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Flusso Lampade	5710.00 lm	Valore Massimo	3557.13 cd	Posizione	C=30.00 G=61.00	CG	Asimmetrico
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	Tabella Intensità Luminosa - cd						Tabella 8/18						
	C 65.00	C 70.00	C 75.00	C 80.00	C 85.00	C 90.00	C 95.00	C 100.00	C 105.00	C 110.00	C 115.00	C 120.00	C 125.00
G 73.0	115.30	101.67	95.85	85.49	82.12	73.77	82.12	85.49	95.85	101.67	115.30	123.10	129.44
G 74.0	97.71	88.90	82.90	74.14	71.70	63.84	71.70	74.14	82.90	88.90	97.71	101.97	109.88
G 75.0	80.80	76.54	70.85	63.82	62.02	54.91	62.02	63.82	70.85	76.54	80.80	82.30	92.10
G 76.0	66.18	64.98	60.04	54.48	52.87	46.68	52.87	54.48	60.04	64.98	66.18	66.16	77.03
G 77.0	53.94	54.38	50.47	46.07	44.31	39.12	44.31	46.07	50.47	54.38	53.94	53.48	64.53
G 78.0	43.81	44.82	42.06	38.53	36.47	32.30	36.47	38.53	42.06	44.82	43.81	43.61	54.15
G 79.0	35.50	36.39	34.71	31.82	29.49	26.27	29.49	31.82	34.71	36.39	35.50	35.92	45.45
G 80.0	28.73	29.18	28.35	25.89	23.49	21.10	23.49	25.89	28.35	29.18	28.73	29.78	38.01
G 81.0	23.24	23.22	22.89	20.67	18.56	16.82	18.56	20.67	22.89	23.22	23.24	24.63	31.44
G 82.0	18.79	18.36	18.24	16.15	14.57	13.32	14.57	16.15	18.24	18.36	18.79	20.26	25.62
G 83.0	15.18	14.41	14.30	12.29	11.36	10.46	11.36	12.29	14.30	14.41	15.18	16.51	20.49
G 84.0	12.18	11.18	10.97	9.06	8.75	8.11	8.75	9.06	10.97	11.18	12.18	13.25	15.99
G 85.0	9.58	8.45	8.15	6.43	6.58	6.13	6.58	6.43	8.15	8.45	9.58	10.32	12.05
G 86.0	7.20	6.09	5.78	4.37	4.71	4.41	4.71	4.37	5.78	6.09	7.20	7.63	8.62
G 87.0	5.07	4.06	3.82	2.81	3.12	2.94	3.12	2.81	3.82	4.06	5.07	5.21	5.71
G 88.0	3.23	2.39	2.26	1.67	1.82	1.72	1.82	1.67	2.26	2.39	3.23	3.13	3.34
G 89.0	1.75	1.11	1.09	0.88	0.83	0.79	0.83	0.88	1.09	1.11	1.75	1.47	1.53
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F3 STE-M 3.7-2M	Codice	18-009-2182	Codice	L-ECR-0F3-3000-700-2M-70-25
Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	5710.00 lm	Potenza Apparecchio	52.00 W	Efficacia	109.81 lm/W	Rendimento	100.00%
Flusso Lampade	5710.00 lm	Valore Massimo	3557.13 cd	Posizione	C=30.00 G=61.00	CG	Asimmetrico

Tabella Intensità Luminosa - cd Tabella 9/18

	C 130.00	C 135.00	C 140.00	C 145.00	C 150.00	C 155.00	C 160.00	C 165.00	C 170.00	C 175.00	C 180.00	C 185.00	C 190.00
G 73.0	134.94	150.04	240.84	606.48	1214.50	1825.69	2048.04	2161.47	2056.67	1727.51	1169.57	567.87	237.30
G 74.0	120.68	131.25	191.25	449.61	959.79	1535.99	1763.44	1881.73	1799.16	1498.80	981.31	455.38	200.24
G 75.0	107.88	117.53	154.87	323.05	734.00	1255.83	1476.83	1591.53	1526.66	1259.87	797.89	355.29	166.54
G 76.0	94.20	103.73	125.36	228.44	545.87	996.44	1197.66	1300.92	1248.09	1020.06	628.51	272.59	136.43
G 77.0	79.80	89.33	100.95	161.41	394.11	762.97	934.51	1020.95	975.56	789.23	476.94	206.38	109.89
G 78.0	65.52	75.03	80.97	116.06	274.93	559.07	695.74	762.91	722.01	577.39	345.59	154.27	86.79
G 79.0	52.16	61.49	64.78	86.49	184.52	388.37	489.73	538.11	500.35	394.54	236.90	113.90	67.03
G 80.0	40.55	49.38	51.70	66.81	119.10	254.52	324.84	357.84	323.50	250.70	153.29	82.89	50.50
G 81.0	31.29	39.22	41.12	52.00	74.77	159.26	206.49	229.67	200.26	152.47	95.83	59.09	37.04
G 82.0	24.16	30.88	32.62	40.51	47.21	96.70	128.16	146.24	122.92	92.87	60.11	41.21	26.35
G 83.0	18.71	24.07	25.79	31.65	31.97	59.09	80.38	96.48	79.66	61.51	40.39	28.18	18.06
G 84.0	14.49	18.51	20.23	24.73	24.65	38.62	53.69	69.31	58.64	48.01	30.93	18.94	11.84
G 85.0	11.07	13.92	15.56	19.08	20.80	27.53	38.60	53.64	48.03	41.97	25.96	12.42	7.33
G 86.0	8.08	10.04	11.45	14.12	16.82	19.32	27.22	40.33	38.13	34.95	20.81	7.69	4.20
G 87.0	5.49	6.81	7.88	9.80	12.36	12.63	17.88	27.97	27.72	26.24	15.04	4.35	2.16
G 88.0	3.32	4.23	4.90	6.17	7.91	7.38	10.52	17.09	17.70	17.05	9.30	2.14	0.98
G 89.0	1.63	2.26	2.55	3.31	3.96	3.49	5.03	8.21	8.98	8.59	4.23	0.81	0.40
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio Codice ECO RAYS TP 0F3 STE-M 3.7-2M Nome ECO RAYS TP 0F3 STE-M 3.7-2M Archivio Eulumdat	Rilievo Codice 18-009-2182 Nome ECO RAYS TP 0F3 STE-M 3.7-2M Data 27-03-2018	Lampada Codice L-ECR-0F3-3000-700-2M-70-25 Numero 1 Posizione
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Flusso Apparecchio	5710.00 lm	Potenza Apparecchio	52.00 W	Efficacia	109.81 lm/W	Rendimento	100.00%
Flusso Lampade	5710.00 lm	Valore Massimo	3557.13 cd	Posizione	C=30.00 G=61.00	CG	Asimmetrico

Tabella Intensità Luminose - cd Tabella 10/18

	C 195.00	C 200.00	C 205.00	C 210.00	C 215.00	C 220.00	C 225.00	C 230.00	C 235.00	C 240.00	C 245.00	C 250.00	C 255.00
G 73.0	151.96	132.87	124.76	127.85	132.84	123.34	96.11	68.96	42.90	28.32	22.26	17.45	12.61
G 74.0	134.63	119.87	112.45	115.87	120.47	113.32	85.95	60.72	35.65	23.54	18.33	14.11	10.52
G 75.0	117.16	105.94	99.28	102.50	106.16	100.78	74.29	51.62	28.65	18.93	14.59	11.00	8.53
G 76.0	99.51	91.12	85.49	87.92	90.21	85.82	61.46	41.91	22.31	14.68	11.20	8.28	6.66
G 77.0	82.17	75.99	71.56	72.79	73.49	69.50	48.21	32.11	16.73	10.89	8.22	5.99	4.96
G 78.0	65.75	61.22	58.00	57.88	56.99	53.06	35.41	22.83	11.96	7.61	5.69	4.10	3.47
G 79.0	50.87	47.51	45.32	43.96	41.71	37.78	23.92	14.67	8.04	4.91	3.64	2.60	2.23
G 80.0	38.16	35.54	34.04	31.80	28.65	24.91	14.59	8.23	5.01	2.84	2.09	1.50	1.27
G 81.0	28.05	25.82	24.56	21.98	18.58	15.40	8.05	6.61	2.88	1.86	1.34	1.09	0.84
G 82.0	20.30	18.23	16.86	14.39	11.25	8.92	3.95	5.00	1.50	1.15	0.82	0.75	0.52
G 83.0	14.50	12.44	10.80	8.74	6.19	4.83	1.69	3.38	0.71	0.64	0.48	0.45	0.29
G 84.0	10.21	8.17	6.25	4.74	2.92	2.47	0.70	1.77	0.32	0.28	0.25	0.20	0.13
G 85.0	7.03	5.09	3.07	2.09	0.97	1.20	0.37	0.15	0.15	0.00	0.07	0.00	0.00
G 86.0	4.59	2.93	2.47	1.68	0.78	0.83	0.29	0.12	0.12	0.00	0.06	0.00	0.00
G 87.0	2.75	1.50	1.87	1.26	0.58	0.54	0.21	0.09	0.09	0.00	0.04	0.00	0.00
G 88.0	1.43	0.64	1.27	0.84	0.39	0.31	0.16	0.06	0.06	0.00	0.03	0.00	0.00
G 89.0	0.54	0.20	0.67	0.42	0.19	0.14	0.11	0.03	0.03	0.00	0.01	0.00	0.00
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F3 STE-M 3.7-2M	Codice	18-009-2182	Codice	L-ECR-0F3-3000-700-2M-70-25
Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	5710.00 lm	Potenza Apparecchio	52.00 W	Efficacia	109.81 lm/W	Rendimento	100.00%
Flusso Lampade	5710.00 lm	Valore Massimo	3557.13 cd	Posizione	C=30.00 G=61.00	CG	Asimmetrico

Tabella Intensità Luminose - cd Tabella 11/18

	C 260.00	C 265.00	C 270.00	C 275.00	C 280.00	C 285.00	C 290.00	C 295.00	C 300.00	C 305.00	C 310.00	C 315.00	C 320.00
G 73.0	11.92	10.42	12.26	10.42	11.92	12.61	17.45	22.26	28.32	42.90	68.96	96.11	123.34
G 74.0	9.32	8.23	10.42	8.23	9.32	10.52	14.11	18.33	23.54	35.65	60.72	85.95	113.32
G 75.0	7.03	6.21	8.53	6.21	7.03	8.53	11.00	14.59	18.93	28.65	51.62	74.29	100.78
G 76.0	5.19	4.46	6.63	4.46	5.19	6.66	8.28	11.20	14.68	22.31	41.91	61.46	85.82
G 77.0	3.76	3.00	4.81	3.00	3.76	4.96	5.99	8.22	10.89	16.73	32.11	48.21	69.50
G 78.0	2.68	1.82	3.17	1.82	2.68	3.47	4.10	5.69	7.61	11.96	22.83	35.41	53.06
G 79.0	1.87	0.92	1.78	0.92	1.87	2.23	2.60	3.64	4.91	8.04	14.67	23.92	37.78
G 80.0	1.27	0.30	0.75	0.30	1.27	1.27	1.50	2.09	2.84	5.01	8.23	14.59	24.91
G 81.0	0.82	0.24	0.60	0.24	0.82	0.84	1.09	1.34	1.86	2.88	6.61	8.05	15.40
G 82.0	0.48	0.18	0.45	0.18	0.48	0.52	0.75	0.82	1.15	1.50	5.00	3.95	8.92
G 83.0	0.25	0.12	0.30	0.12	0.25	0.29	0.45	0.48	0.64	0.71	3.38	1.69	4.83
G 84.0	0.09	0.06	0.15	0.06	0.09	0.13	0.20	0.25	0.28	0.32	1.77	0.70	2.47
G 85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.15	0.15	0.37	1.20
G 86.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.12	0.12	0.29	0.83
G 87.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.09	0.09	0.21	0.54
G 88.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.06	0.06	0.16	0.31
G 89.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.03	0.11	0.14
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F3 STE-M 3.7-2M	Codice	18-009-2182	Codice	L-ECR-0F3-3000-700-2M-70-25
Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	5710.00 lm	Potenza Apparecchio	52.00 W	Efficacia	109.81 lm/W	Rendimento	100.00%
Flusso Lampade	5710.00 lm	Valore Massimo	3557.13 cd	Posizione	C=30.00 G=61.00	CG	Asimmetrico

Tabella Intensità Luminose - cd Tabella 12/18

	C 325.00	C 330.00	C 335.00	C 340.00	C 345.00	C 350.00	C 355.00
G 73.0	132.84	127.85	124.76	132.87	151.96	237.30	567.87
G 74.0	120.47	115.87	112.45	119.87	134.63	200.24	455.38
G 75.0	106.16	102.50	99.28	105.94	117.16	166.54	355.29
G 76.0	90.21	87.92	85.49	91.12	99.51	136.43	272.59
G 77.0	73.49	72.79	71.56	75.99	82.17	109.89	206.38
G 78.0	56.99	57.88	58.00	61.22	65.75	86.79	154.27
G 79.0	41.71	43.96	45.32	47.51	50.87	67.03	113.90
G 80.0	28.65	31.80	34.04	35.54	38.16	50.50	82.89
G 81.0	18.58	21.98	24.56	25.82	28.05	37.04	59.09
G 82.0	11.25	14.39	16.86	18.23	20.30	26.35	41.21
G 83.0	6.19	8.74	10.80	12.44	14.50	18.06	28.18
G 84.0	2.92	4.74	6.25	8.17	10.21	11.84	18.94
G 85.0	0.97	2.09	3.07	5.09	7.03	7.33	12.42
G 86.0	0.78	1.68	2.47	2.93	4.59	4.20	7.69
G 87.0	0.58	1.26	1.87	1.50	2.75	2.16	4.35
G 88.0	0.39	0.84	1.27	0.64	1.43	0.98	2.14
G 89.0	0.19	0.42	0.67	0.20	0.54	0.40	0.81
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F3 STE-M 3.7-2M	Codice	18-009-2182	Codice	L-ECR-0F3-3000-700-2M-70-25
Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	5710.00 lm	Potenza Apparecchio	52.00 W	Efficacia	109.81 lm/W	Rendimento	100.00%
Flusso Lampade	5710.00 lm	Valore Massimo	3557.13 cd	Posizione	C=30.00 G=61.00	CG	Asimmetrico

Tabella Intensità Luminose - cd Tabella 13/18

	C 0.00	C 5.00	C 10.00	C 15.00	C 20.00	C 25.00	C 30.00	C 35.00	C 40.00	C 45.00	C 50.00	C 55.00	C 60.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F3 STE-M 3.7-2M	Codice	18-009-2182	Codice	L-ECR-0F3-3000-700-2M-70-25
Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	5710.00 lm	Potenza Apparecchio	52.00 W	Efficacia	109.81 lm/W	Rendimento	100.00%
Flusso Lampade	5710.00 lm	Valore Massimo	3557.13 cd	Posizione	C=30.00 G=61.00	CG	Asimmetrico

Tabella Intensità Luminose - cd Tabella 14/18

	C 65.00	C 70.00	C 75.00	C 80.00	C 85.00	C 90.00	C 95.00	C 100.00	C 105.00	C 110.00	C 115.00	C 120.00	C 125.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F3 STE-M 3.7-2M	Codice	18-009-2182	Codice	L-ECR-0F3-3000-700-2M-70-25
Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	5710.00 lm	Potenza Apparecchio	52.00 W	Efficacia	109.81 lm/W	Rendimento	100.00%
Flusso Lampade	5710.00 lm	Valore Massimo	3557.13 cd	Posizione	C=30.00 G=61.00	CG	Asimmetrico

Tabella Intensità Luminose - cd Tabella 15/18

	C 130.00	C 135.00	C 140.00	C 145.00	C 150.00	C 155.00	C 160.00	C 165.00	C 170.00	C 175.00	C 180.00	C 185.00	C 190.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F3 STE-M 3.7-2M	Codice	18-009-2182	Codice	L-ECR-0F3-3000-700-2M-70-25
Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	5710.00 lm	Potenza Apparecchio	52.00 W	Efficacia	109.81 lm/W	Rendimento	100.00%
Flusso Lampade	5710.00 lm	Valore Massimo	3557.13 cd	Posizione	C=30.00 G=61.00	CG	Asimmetrico

Tabella Intensità Luminose - cd Tabella 16/18

	C 195.00	C 200.00	C 205.00	C 210.00	C 215.00	C 220.00	C 225.00	C 230.00	C 235.00	C 240.00	C 245.00	C 250.00	C 255.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F3 STE-M 3.7-2M	Codice	18-009-2182	Codice	L-ECR-0F3-3000-700-2M-70-25
Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	5710.00 lm	Potenza Apparecchio	52.00 W	Efficacia	109.81 lm/W	Rendimento	100.00%
Flusso Lampade	5710.00 lm	Valore Massimo	3557.13 cd	Posizione	C=30.00 G=61.00	CG	Asimmetrico

Tabella Intensità Luminose - cd Tabella 17/18

	C 260.00	C 265.00	C 270.00	C 275.00	C 280.00	C 285.00	C 290.00	C 295.00	C 300.00	C 305.00	C 310.00	C 315.00	C 320.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F3 STE-M 3.7-2M	Codice	18-009-2182	Codice	L-ECR-0F3-3000-700-2M-70-25
Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	5710.00 lm	Potenza Apparecchio	52.00 W	Efficacia	109.81 lm/W	Rendimento	100.00%
Flusso Lampade	5710.00 lm	Valore Massimo	3557.13 cd	Posizione	C=30.00 G=61.00	CG	Asimmetrico

Tabella Intensità Luminose - cd Tabella 18/18

	C 325.00	C 330.00	C 335.00	C 340.00	C 345.00	C 350.00	C 355.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada			
Codice	ECO RAYS TP 0F3 STE-M 3.7-2M	Codice	18-009-2182	Codice	L-ECR-0F3-3000-700-2M-70-25		
Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Numero	1		
Archivio	Eulumdat	Data	27-03-2018	Posizione			
Flusso Apparecchio	5710.00 lm	Potenza Apparecchio	52.00 W	Efficacia	109.81 lm/W	Rendimento	100.00%
Flusso Lampade	5710.00 lm	Valore Massimo	3557.13 cd	Posizione	C=30.00 G=61.00	CG	Asimmetrico

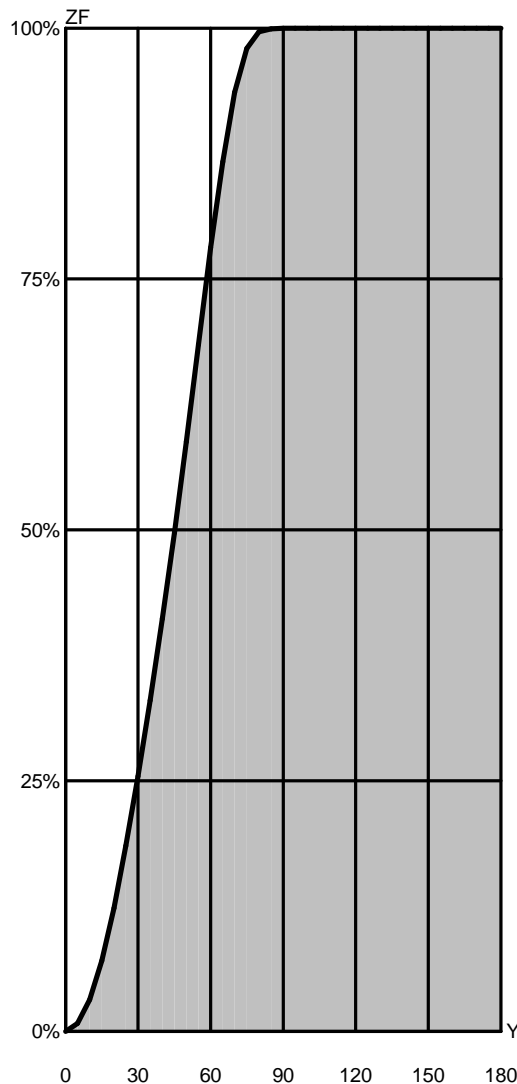
Flusso Totale=5710.00 Flusso Apparecchio=5710.00

RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.28	0.37	0.44	0.52	0.58	0.67	0.74	0.78	0.83	0.87	0.94	0.97
RC	6	5	5	5	5	5	5	5	4	4	4	3

Flusso Zonale per 1000 lumen																		
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	32	123	254	411	588	782	936	997	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

CODICI DI FLUSSO CIE
43 78 98 100 100

C.I.E.	6/5/5/5/5/5/5/4/4/3	LOR	100.00000 %
D DIN 5040	A30	ULOR	0.00000 %
F UTE	1.00 E	DLOR	100.00000 %
B NBN	BZ 5 / 2 / BZ 4	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %



Flusso Zonale				
Gamma °	Flusso	Somma lm	Flusso [%]	Somma [%]
0°	0.00	0.00	0.00%	0.00%
5°	7.91	7.91	0.79%	0.79%
10°	23.70	31.61	2.37%	3.16%
15°	39.03	70.64	3.90%	7.06%
20°	52.33	122.97	5.23%	12.30%
25°	62.16	185.13	6.22%	18.51%
30°	69.24	254.37	6.92%	25.44%
35°	75.62	329.99	7.56%	33.00%
40°	81.29	411.28	8.13%	41.13%
45°	85.84	497.11	8.58%	49.71%
50°	90.68	587.79	9.07%	58.78%
55°	97.04	684.84	9.70%	68.48%
60°	96.71	781.54	9.67%	78.15%
65°	85.50	867.04	8.55%	86.70%
70°	69.13	936.18	6.91%	93.62%
75°	43.64	979.81	4.36%	97.98%
80°	16.70	996.51	1.67%	99.65%
85°	2.99	999.50	0.30%	99.95%
90°	0.50	1000.00	0.05%	100.00%
95°	0.00	1000.00	0.00%	100.00%
100°	0.00	1000.00	0.00%	100.00%
105°	0.00	1000.00	0.00%	100.00%
110°	0.00	1000.00	0.00%	100.00%
115°	0.00	1000.00	0.00%	100.00%
120°	0.00	1000.00	0.00%	100.00%
125°	0.00	1000.00	0.00%	100.00%
130°	0.00	1000.00	0.00%	100.00%
135°	0.00	1000.00	0.00%	100.00%
140°	0.00	1000.00	0.00%	100.00%
145°	0.00	1000.00	0.00%	100.00%
150°	0.00	1000.00	0.00%	100.00%
155°	0.00	1000.00	0.00%	100.00%
160°	0.00	1000.00	0.00%	100.00%
165°	0.00	1000.00	0.00%	100.00%
170°	0.00	1000.00	0.00%	100.00%
175°	0.00	1000.00	0.00%	100.00%
180°	0.00	1000.00	0.00%	100.00%

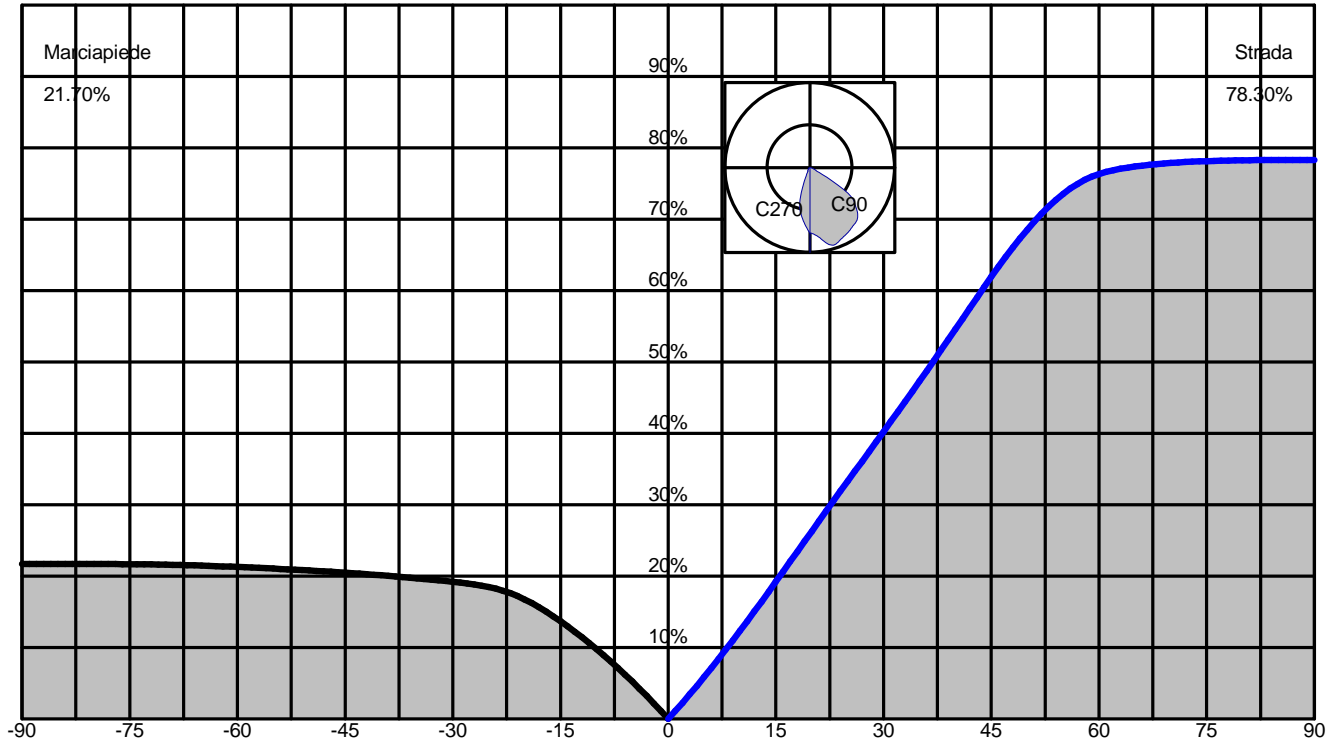
Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F3 STE-M 3.7-2M	Codice	18-009-2182	Codice	L-ECR-0F3-3000-700-2M-70-25
Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Nome	ECO RAYS TP 0F3 STE-M 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	5710.00 lm	Potenza Apparecchio	52.00 W	Efficacia	109.81 lm/W	Rendimento	100.00%
Flusso Lampade	5710.00 lm	Valore Massimo	3557.13 cd	Posizione	C=30.00 G=61.00	CG	Asimmetrico

Marciapiede			Strada		
Piano	0	0.00%	Piano	0	0.00%
Piano	-5	5.25%	Piano	5	5.89%
Piano	-10	9.80%	Piano	10	12.35%
Piano	-15	13.69%	Piano	15	19.24%
Piano	-20	16.75%	Piano	20	26.31%
Piano	-25	18.49%	Piano	25	33.31%
Piano	-30	19.21%	Piano	30	40.24%
Piano	-35	19.71%	Piano	35	47.31%
Piano	-40	20.13%	Piano	40	54.59%
Piano	-45	20.49%	Piano	45	61.93%
Piano	-50	20.80%	Piano	50	68.53%
Piano	-55	21.07%	Piano	55	73.54%
Piano	-60	21.29%	Piano	60	76.32%
Piano	-65	21.48%	Piano	65	77.37%
Piano	-70	21.62%	Piano	70	77.87%
Piano	-75	21.68%	Piano	75	78.12%
Piano	-80	21.70%	Piano	80	78.24%
Piano	-85	21.70%	Piano	85	78.29%
Piano	-90	21.70%	Piano	90	78.30%

Angolo Inclinazione = 0.0

DLOR = 100.00%



Spread	47.6° Medio	DLOR	100.00000 %
Throw	60.8° Intermedio	ULOR	0.00000 %
SLI (abbagliamento)	4.7 Ristretto	Rendimento	100.00000 %
Cutoff CIE	Cutoff - Max: C=30.0° Gamma=61.0°	RN	0.00000 %
Cutoff Iesna	Full Cutoff	Classe Intensità Luminosa	G4
DIN5044	KB2	Indice Abbagliamento	D4
IESNA Type II Short Asymmetrical			

Photometric Test Report



Costruttore	AEC ILLUMINAZIONE SRL
Tipo di prodotto	Outdoor Lighting Luminaire
Codice fotometria	ECO RAYS TP 0F2H1 S 3.7-2M
Codice apparecchio	ECO RAYS TP 0F2H1 S 3.7-2M
Rilievo fotometrico	18-009-2218
Descrizione apparecchio	ECO RAYS TP 0F2H1 S 3.7-2M
Data delle prove	27/03/2018

Foto del prodotto



Responsabile laboratorio fotometrico	Luca Vagheggi	
Tecnico laboratorio che ha eseguito la misura	Alessio Vagheggi	



Photometric Test Report



Sommario e Allegati

Sommario	Dati apparecchio	
	Normative di riferimento	
	Procedure di riferimento	
	Condizioni di prova	
	Risultati fotometrici	
	Lista strumentazione	
	Incertezza strumentale	
Allegati	Dati Generali	X
	Tabella fotometrica delle Intensità (cd/Klm)	X
	Tabella fotometrica delle Intensità (cd)	
	Diagramma Polare	
	Diagramma Cartesiano	
	Valutazione UGR	
	Diagramma Sollner Abbagliamento	
	Flusso Zonale	
	Coefficienti di Utilizzazione	
	Isolux Unitario	
	Isocandele Percentuale	
	Tabella e Diagramma Luminanza	
	Classificazione Strade	
Classificazione Strade IES TM-15		



Photometric Test Report



DATI APPARECCHIO

Geometria apparecchio	Circolare		
Dimensioni apparecchio (mm)	Lunghezza / Diametro	Larghezza	Altezza
	497	497	81
Dimensioni area luminosa (mm)	Lunghezza / Diametro	Larghezza	Altezza C0
	120	110	0
	Altezza C90	Altezza C180	Altezza C270
	0	0	0
Tipo sorgente	LED		
Modello sorgente	Luxeon-Mx, Luxeon-Tx		
Tipo Alimentatore	Elettronico / Electronic		
Modello Alimentatore	OSRAM OT / Philips Xi		

NORMATIVE DI RIFERIMENTO

Normative di riferimento	EN 13032-1:2012 EN 13032-4:2015 IES LM-79-08
Valutazione luce parassita	In accordo con Annex A UNI EN 13032-1

PROCEDURE DI RIFERIMENTO

Procedure di riferimento	I-QL-009
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Photometric Test Report



CONDIZIONI DI PROVA

Laboratorio fotometrico	Interno AEC ILLUMINAZIONE srl, in regime di sistema di qualità aziendale certificato ISO 9001:2008, autorizzato UL	
Condizioni Ambientali	Temperatura ambiente (°C)	25 ± 1
	Umidità relativa (°RH)	< 60
	Movimento aria (m/s)	< 0,2
Condizioni Elettriche	Tensione di alimentazione	230V AC ± 0,2%
	Frequenza di alimentazione	50 Hz ± 0,1%
	Distorsione armonica THD V	< 0,5%
Condizioni Preliminari Prova	Metodo di misura	Goniofotometro Sfera- spettrometro
	Sistema di riferimento misura	Sistema C-γ (Gonio) Integrale (Sfera)
	Posizione di misura	Verticale (Gonio) Orizzontale (Sfera)
	Distanza di misura (m)	9.03
	Tempo di stabilizzazione (min)	120
	Instabilità sorgente	< 0,5%

I risultati delle verifiche e prove qui riportati, si riferiscono esclusivamente agli esemplari esaminati e descritti nella presente Relazione. L'estensione del riferimento ad esemplari che non siano quelli sottoposti alle verifiche descritte in seguito esula dallo scopo delle verifiche stesse. E' vietata la riproduzione integrale o parziale senza l'autorizzazione scritta di Aec illuminazione srl. L'immagine dell'apparecchio nella prima pagina è puramente indicativa della tipologia di apparecchio sottoposto a test.



Photometric Test Report



RISULTATI FOTOMETRICI

Tipo di misura fotometrica	Assoluta
LOR (%)	100.0
Flusso luminoso apparecchio (lm)	4260
Potenza ingresso apparecchio (W)	40.0
Efficienza apparecchio (lm/W)	107
Note e commenti	

LISTA STRUMENTAZIONE

CODICE AEC	STRUMENTO	COSTRUTTORE	MODELLO
Q129	Luxmetro	Czibula&Grundmann	100310
Q130	Goniofotometro	Oxytech	T2
Q131	Termoigrometro	Delta Ohm	HD2001
Q132	Wattmetro	N4L	PPA2510
Q135	Stabilizzatore	Elettrotest	TPS/M/9KW
Q190	Sfera Integratrice	Labsphere	LMS65
Q195	Spettroradiometro	Labsphere	CDS610

INCERTEZZA STRUMENTALE

Encoder goniofotometro Oxytech T2	Precisione angolare in C – gamma	$\pm 0.044^\circ$
Luxmetro C&G	f1'	< 1.23%
Spettroradiometro	Incertezza lunghezza d'onda	< 0.5nm
	Incertezza coordinate cromatiche	± 0.003
Wattmetro Kinetiq N4L PPA2510	Accuratezza di potenza	< [0.05% + 0.03%/pf + (0.01%/kHz)/pf] R _{dg} + 0.05%VA R _{ng}

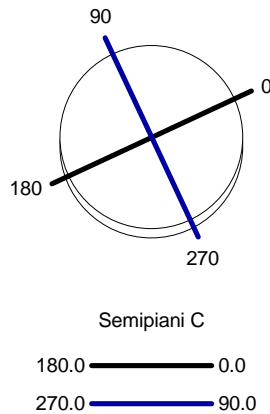


Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S 3.7-2M	Codice	18-009-2218	Codice	L-ECR-0F2H1-3000-700-2M-70-25
Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

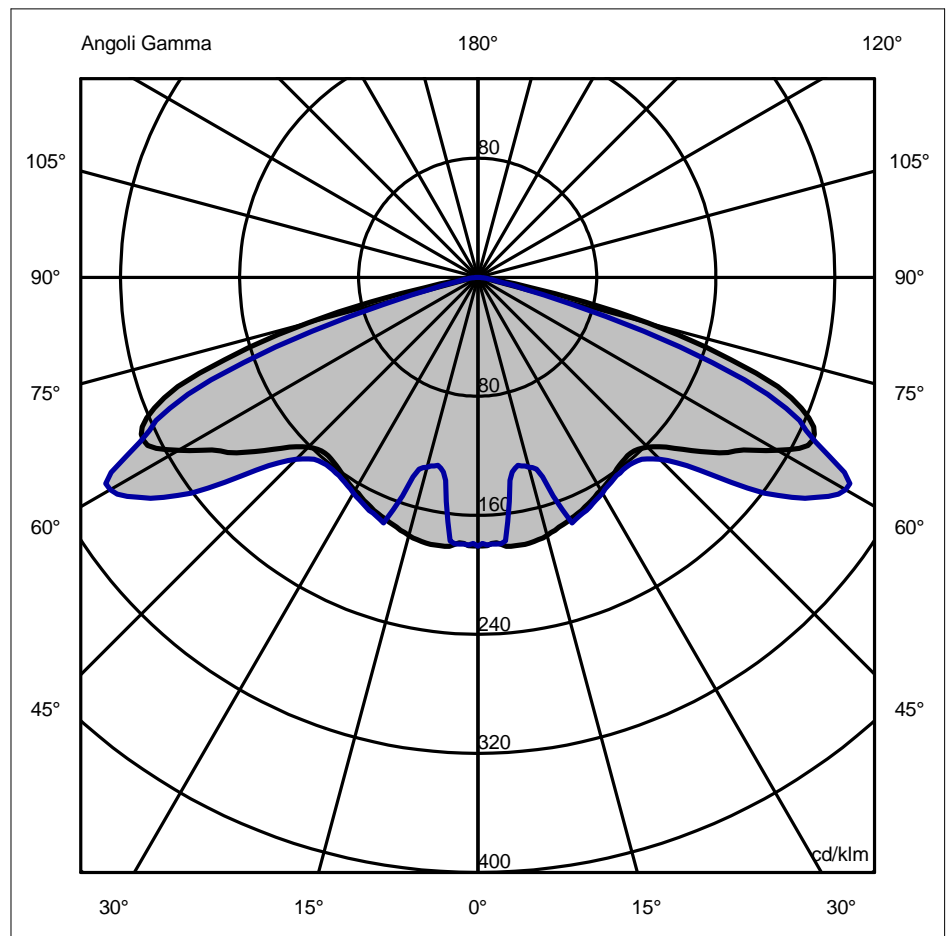
Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico
Apparecchio Circolare		Diam.	497 mm	Alt.	81 mm	Alt.	0 mm
Area Luminosa Rettangolare		Lung.	120 mm	Larg.	110 mm		
Area Luminosa Orizzontale	0.013200 m2			Area Luminosa Piano 180°	0.000000 m2		
Area Luminosa Piano 0°	0.000000 m2			Area Luminosa Piano 270°	0.000000 m2		
Area Luminosa Piano 90°	0.000000 m2			Area Luminosa a 76°	0.003193 m2		
Sistema Coordinate	CG			Tipo di Simmetria	Asimmetrico		
Data	27-03-2018			Massimo Angolo Gamma	180		

Archivio	Lampade Apparecchio				Flusso [lm]	Pot. [W]	Q.tà
	Codice	Nome					
	L-ECR-0F2H1-3000-700-2M-70-25	L-ECR-0F2H1-3000-700-2M-70-25	40.00 W	4260.00	40.00	1	
C.I.E.	27 65 96 100 100		D DIN 5040	A10			
F UTE	1.00 I		B NBN	BZ 7 / 1 / BZ 6 / 3 / BZ 5			

Diam=497mm



ULOR 0.00 %
DLOR 100.00 %
RN 0.00 %



Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S 3.7-2M	Codice 18-009-2218	Codice L-ECR-0F2H1-3000-700-2M-70-25
Nome ECO RAYS TP 0F2H1 S 3.7-2M	Nome ECO RAYS TP 0F2H1 S 3.7-2M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 1/18

	C 0.00	C 5.00	C 10.00	C 15.00	C 20.00	C 25.00	C 30.00	C 35.00	C 40.00	C 45.00	C 50.00	C 55.00	C 60.00
G 0.0	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45
G 1.0	180.63	181.01	180.46	180.28	179.49	179.62	178.94	179.00	178.77	178.45	178.81	178.28	178.93
G 2.0	180.50	180.39	179.43	178.75	177.60	177.11	176.75	176.91	177.36	177.51	178.54	178.16	179.06
G 3.0	179.02	178.69	177.13	175.96	174.92	174.94	175.67	175.44	173.22	175.15	175.57	176.80	178.14
G 4.0	178.81	177.46	175.18	173.62	173.37	174.44	170.65	171.67	174.57	175.74	177.77	177.84	179.22
G 5.0	180.23	178.35	175.40	174.29	174.84	175.78	171.87	172.86	173.58	175.09	177.91	179.59	181.18
G 6.0	181.83	179.85	176.43	176.71	178.06	179.39	176.16	174.79	177.58	179.47	182.00	182.88	184.56
G 7.0	182.03	179.63	176.62	178.14	179.86	181.35	178.93	181.80	183.95	184.43	185.25	185.20	181.67
G 8.0	182.06	178.76	176.55	178.95	180.86	182.12	183.29	186.97	189.44	190.47	188.43	181.38	173.98
G 9.0	182.17	178.15	176.99	179.88	181.42	183.31	187.18	191.02	193.07	192.35	188.09	177.58	165.75
G 10.0	182.28	177.70	177.62	180.81	182.24	186.18	190.74	193.57	193.48	190.72	186.92	171.23	159.28
G 11.0	181.98	177.26	178.34	181.58	183.44	189.43	193.54	194.27	193.10	188.87	181.82	167.18	157.13
G 12.0	181.48	176.75	179.02	181.81	185.26	191.75	194.56	194.00	190.79	185.12	178.78	163.34	153.72
G 13.0	180.96	176.13	179.08	181.86	187.33	193.43	194.26	193.14	189.01	181.63	174.64	158.48	149.65
G 14.0	180.51	175.45	179.02	181.78	189.23	193.57	193.01	191.73	185.60	179.23	169.03	152.52	144.76
G 15.0	179.54	174.72	178.73	182.16	190.61	192.86	191.56	188.13	180.92	176.42	162.63	146.55	139.51
G 16.0	178.47	173.96	178.24	183.13	191.47	191.88	190.00	186.35	178.77	173.24	155.53	141.33	136.49
G 17.0	177.66	173.28	177.55	184.46	191.54	190.86	188.49	182.49	176.71	168.80	148.33	137.72	133.64
G 18.0	176.57	172.46	176.70	185.50	190.86	189.75	186.83	178.74	174.78	162.97	142.03	134.85	133.80
G 19.0	175.78	171.48	175.94	186.32	190.15	188.65	184.51	177.14	172.50	155.50	138.61	134.84	132.75
G 20.0	174.87	170.69	175.18	186.87	189.12	187.30	182.37	175.64	169.59	147.94	135.37	132.79	133.58
G 21.0	173.89	169.83	174.77	186.90	188.04	185.94	180.90	174.02	166.01	141.31	135.35	132.07	136.82
G 22.0	173.13	169.16	174.65	186.60	187.01	184.41	177.64	172.44	161.77	137.52	134.16	132.76	143.72
G 23.0	172.23	168.54	174.93	186.06	185.84	183.09	175.45	170.98	156.15	134.86	133.05	135.89	153.14
G 24.0	171.42	167.87	175.17	185.18	184.56	181.88	174.22	169.63	150.71	135.88	133.07	142.44	162.40
G 25.0	170.28	167.01	175.42	184.24	183.34	180.57	173.20	168.05	144.71	134.67	134.74	151.67	169.46
G 26.0	169.31	166.26	175.43	183.01	182.06	179.56	172.50	166.17	140.90	133.83	138.94	161.28	172.68
G 27.0	168.36	165.53	175.73	181.92	181.03	178.16	171.72	164.38	137.55	134.11	145.10	168.00	174.93
G 28.0	167.25	164.72	175.63	180.51	179.96	176.89	171.06	162.18	137.05	135.30	153.00	171.76	176.11
G 29.0	165.92	163.91	175.72	179.47	179.03	176.15	170.35	159.54	137.12	137.85	161.02	174.41	176.62
G 30.0	165.33	163.01	175.68	178.39	178.31	174.58	170.20	156.95	136.96	141.69	167.69	176.30	176.67
G 31.0	164.31	162.19	175.37	177.45	177.64	173.35	170.04	154.48	137.37	147.05	172.73	178.12	176.73
G 32.0	163.34	161.37	174.98	176.49	177.25	173.16	170.23	152.17	138.70	153.45	176.64	179.39	177.12
G 33.0	162.31	160.42	174.76	176.10	177.12	173.55	170.47	150.41	140.87	160.11	179.80	180.55	177.68
G 34.0	161.35	159.62	174.06	175.68	177.12	174.18	171.41	149.65	143.81	167.02	182.42	181.86	178.51
G 35.0	160.17	158.88	173.75	175.60	177.52	175.24	172.88	149.62	147.93	173.59	185.20	183.52	179.37
G 36.0	159.02	158.27	173.51	175.70	178.20	176.73	174.43	151.35	152.76	180.57	188.38	185.39	180.66
G 37.0	158.18	157.77	173.21	176.23	179.23	178.88	176.48	153.86	158.49	186.16	192.16	188.32	182.72
G 38.0	157.50	157.53	173.26	176.99	180.82	181.37	179.23	156.77	164.96	191.98	196.31	191.38	185.11
G 39.0	156.91	157.62	173.67	178.37	183.06	184.92	182.51	160.91	172.07	198.40	201.07	195.39	188.11
G 40.0	156.56	158.06	174.60	180.52	186.31	188.79	186.32	165.77	180.67	204.52	206.40	199.66	191.69
G 41.0	156.66	158.82	175.84	183.21	189.87	193.96	191.05	171.94	188.81	212.05	212.30	204.69	196.50
G 42.0	156.96	160.18	177.59	186.12	194.41	199.90	196.48	179.05	198.60	218.47	218.24	210.70	201.49
G 43.0	157.95	162.00	179.75	190.09	199.98	206.17	201.31	186.66	207.89	226.54	224.91	216.38	206.90
G 44.0	159.44	164.26	182.81	194.92	205.93	213.19	207.43	195.18	217.18	234.55	232.40	222.93	218.97
G 45.0	161.27	167.31	186.25	199.92	212.63	220.99	214.35	204.00	226.98	242.62	240.27	229.61	218.97
G 46.0	163.89	170.84	190.43	205.98	219.54	229.23	221.55	212.93	236.32	251.17	247.45	237.11	225.37
G 47.0	166.85	174.68	195.39	212.26	227.15	237.15	228.85	222.22	245.89	259.17	255.63	244.05	232.43
G 48.0	170.40	179.63	200.82	219.58	234.58	245.13	236.40	231.99	254.66	267.82	263.94	251.85	238.46
G 49.0	175.06	185.13	207.05	225.95	242.17	251.97	243.15	240.80	264.30	275.50	271.25	258.36	245.39
G 50.0	179.73	190.63	213.41	232.94	248.91	259.17	250.90	250.20	273.22	283.27	278.24	266.07	252.49
G 51.0	184.98	196.82	220.41	239.68	255.07	265.40	257.88	259.37	281.95	290.46	285.31	272.78	259.50
G 52.0	190.31	203.14	226.54	245.47	260.24	270.93	264.52	268.44	290.70	297.33	291.73	278.75	266.10
G 53.0	195.39	209.26	233.34	250.81	264.48	275.97	271.56	278.09	297.91	304.92	297.94	284.75	272.03
G 54.0	200.49	215.50	239.31	254.73	268.29	280.26	277.92	286.38	304.76	310.37	302.85	290.21	278.46
G 55.0	205.18	220.07	243.10	257.54	271.53	284.22	284.65	294.33	310.82	315.45	308.24	295.03	283.13
G 56.0	208.57	220.07	242.87	257.15	273.73	287.90	290.83	301.35	315.72	320.45	312.05	298.54	286.98
G 57.0	213.03	222.26	241.35	252.86	273.20	290.64	296.03	306.75	319.07	324.19	315.30	300.48	289.62
G 58.0	219.12	227.16	241.85	250.35	271.66	290.00	300.76	309.94	320.82	326.48	316.17	302.34	290.40
G 59.0	226.02	230.96	241.64	250.12	272.28	287.54	301.26	311.04	321.11	326.82	316.74	301.46	290.63
G 60.0	232.29	233.19	240.11	249.34	273.78	286.70	299.12	308.75	318.95	326.14	314.41	299.09	289.40
G 61.0	238.99	234.61	237.94	247.70	274.32	286.03	296.80	300.42	314.52	323.44	311.33	294.07	287.19
G 62.0	244.76	234.37	234.08	245.88	272.69	284.15	294.76	292.51	306.00	317.26	305.29	287.18	283.68
G 63.0	249.04	233.68	230.30	242.33	269.25	280.08	289.85	284.34	295.65	308.20	296.64	279.87	277.40
G 64.0	250.08	232.43	225.92	238.33	262.69	273.85	282.70	274.82	284.09	296.55	286.57	272.32	270.08
G 65.0	249.50	230.39	219.98	232.06	254.82	265.69	272.16	263.72	274.21	281.51	276.32	260.31	257.79
G 66.0	247.02	227.65	213.42	225.27	245.53	256.91	261.66	253.80	263.22	268.11	260.90	246.69	238.63
G 67.0	241.73	223.12	204.77	216.58	235.70	245.80	248.97	241.96	252.76	253.70	244.43	226.34	216.97
G 68.0	234.47	215.95	195.25	207.53	224.00	234.03	234.67	229.99	240.10	240.63	224.44	201.98	194.89
G 69.0	225.74	205.99	183.59	196.35	211.49	221.59	220.99	217.11	227.54	225.11	204.28	179.45	177.66
G 70.0	214.66	193.98	169.85	185.38	198.95	207.90	205.40	203.26	214.26	205.26	182.32	162.11	158.57
G 71.0	197.86	175.77	152.19	171.30	186.08	193.37	189.04	189.61	195.76	183.17	162.96	144.91	139.54
G 72.0	178.82	156.96	133.65	151.98	167.25	175.70	171.31	174.99	177.34	163.27	145.71	124.83	119.01

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S 3.7-2M	Codice 18-009-2218	Codice L-ECR-0F2H1-3000-700-2M-70-25
Nome ECO RAYS TP 0F2H1 S 3.7-2M	Nome ECO RAYS TP 0F2H1 S 3.7-2M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

	Tabella Intensità Luminose - cd/klm						Tabella 2/18						
	C 65.00	C 70.00	C 75.00	C 80.00	C 85.00	C 90.00	C 95.00	C 100.00	C 105.00	C 110.00	C 115.00	C 120.00	C 125.00
G 0.0	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45
G 1.0	177.82	179.00	177.73	178.45	178.11	178.81	178.11	178.45	177.73	179.00	177.82	178.93	178.28
G 2.0	179.00	179.35	179.25	179.30	179.44	179.91	179.44	179.30	179.25	179.35	179.00	179.06	178.16
G 3.0	178.28	180.09	179.59	179.61	179.89	179.44	179.89	179.61	179.59	180.09	178.28	178.14	176.80
G 4.0	178.73	181.45	180.54	180.84	181.77	179.54	179.69	179.54	180.84	181.45	178.73	179.22	177.84
G 5.0	181.88	182.92	181.89	181.77	179.80	179.75	179.80	181.77	181.89	182.92	181.88	181.18	179.59
G 6.0	184.06	183.98	182.74	180.75	179.50	178.08	179.50	180.75	182.74	183.98	184.06	184.56	182.88
G 7.0	178.82	174.21	170.60	168.68	166.88	165.51	166.88	168.68	170.60	174.21	178.82	181.67	185.20
G 8.0	167.85	165.06	160.15	158.95	152.81	152.01	152.81	158.95	160.15	165.06	167.85	173.98	181.38
G 9.0	157.32	153.74	150.24	147.36	140.64	138.04	140.64	147.36	150.24	153.74	157.32	165.75	177.58
G 10.0	152.90	149.18	146.44	143.19	135.58	132.76	135.58	143.19	146.44	149.18	152.90	159.28	171.23
G 11.0	149.52	145.17	142.72	137.96	132.46	130.65	132.46	137.96	142.72	145.17	149.52	157.13	167.18
G 12.0	146.36	141.01	136.84	134.01	130.85	129.23	130.85	134.01	136.84	141.01	146.36	153.72	163.34
G 13.0	142.47	135.83	131.55	131.95	131.44	130.17	131.44	131.95	135.83	142.47	149.65	158.48	167.18
G 14.0	137.83	132.47	128.11	130.75	132.62	130.73	132.62	130.75	128.11	132.47	137.83	144.76	152.52
G 15.0	134.24	130.26	129.45	132.52	133.97	132.22	133.97	132.52	129.45	130.26	134.24	139.51	146.55
G 16.0	132.22	131.55	130.20	133.32	134.74	133.04	134.74	133.32	130.20	131.55	132.22	136.49	141.33
G 17.0	131.97	133.08	131.70	134.15	136.03	134.76	136.03	134.15	131.70	133.08	131.97	133.64	137.72
G 18.0	132.37	134.59	134.26	137.69	140.26	141.05	140.26	137.69	134.26	134.59	132.37	133.80	134.85
G 19.0	133.85	138.93	141.36	148.86	154.92	155.36	154.92	148.86	141.36	138.93	133.85	132.75	134.84
G 20.0	138.03	149.70	156.77	161.29	169.53	166.15	169.53	161.29	156.77	149.70	138.03	133.58	132.79
G 21.0	148.25	160.52	170.24	173.88	178.89	176.76	178.89	173.88	170.24	160.52	148.25	136.82	132.07
G 22.0	158.70	171.73	175.97	175.93	177.43	175.35	177.43	175.93	171.73	158.70	143.72	132.76	132.76
G 23.0	168.57	175.64	176.90	174.83	176.42	174.31	176.42	174.83	175.64	168.57	153.14	135.89	135.89
G 24.0	172.76	177.12	175.95	173.86	175.53	173.44	175.53	173.86	177.12	172.76	162.40	142.44	142.44
G 25.0	175.03	176.99	174.93	172.68	174.51	172.84	174.51	172.68	174.93	175.03	169.46	151.67	151.67
G 26.0	175.89	176.03	173.80	171.50	173.08	171.75	173.08	171.50	176.03	175.89	172.68	161.28	161.28
G 27.0	175.47	175.08	172.68	170.48	171.91	170.43	171.91	170.48	172.68	175.08	175.47	174.93	168.00
G 28.0	174.98	174.30	171.85	169.69	170.56	169.45	170.56	169.69	171.85	174.30	174.98	176.11	171.76
G 29.0	174.34	173.32	170.68	168.76	169.34	168.43	169.34	168.76	170.68	173.32	174.34	176.62	174.41
G 30.0	173.79	172.54	169.73	168.00	167.99	167.36	167.99	168.00	169.73	172.54	173.79	176.67	176.30
G 31.0	173.44	171.99	168.90	167.14	166.34	166.03	166.34	167.14	168.90	171.99	173.44	176.73	178.12
G 32.0	173.41	171.49	168.05	166.33	164.97	165.10	164.97	166.33	168.05	171.49	173.41	177.12	179.39
G 33.0	173.45	171.16	167.36	165.68	163.61	164.25	163.61	165.68	167.36	171.16	173.45	177.68	180.55
G 34.0	173.64	170.98	166.94	165.24	162.50	163.42	162.50	166.94	170.98	173.64	178.51	181.86	181.86
G 35.0	173.89	171.06	166.60	164.90	161.39	162.70	161.39	166.60	171.06	173.89	179.37	183.52	183.52
G 36.0	174.38	171.37	166.59	164.74	160.53	162.44	160.53	164.74	166.59	171.37	174.38	180.66	185.39
G 37.0	175.36	171.86	166.81	164.61	160.01	162.07	160.01	164.61	166.81	171.86	175.36	182.72	188.32
G 38.0	176.73	172.78	167.25	164.85	159.55	162.01	159.55	164.85	167.25	172.78	176.73	185.11	191.38
G 39.0	179.29	173.95	168.07	165.57	159.38	161.98	159.38	165.57	168.07	173.95	179.29	188.11	195.39
G 40.0	181.70	175.48	169.47	166.79	159.71	162.55	159.71	166.79	169.47	175.48	181.70	191.69	199.66
G 41.0	184.72	177.54	171.19	167.93	160.47	163.25	160.47	167.93	171.19	177.54	184.72	196.50	204.69
G 42.0	188.57	180.32	173.53	169.86	161.57	164.59	161.57	169.86	180.32	188.57	201.49	210.70	210.70
G 43.0	192.65	183.92	176.25	172.27	163.44	166.73	163.44	172.27	183.92	192.65	206.90	216.38	216.38
G 44.0	197.80	187.77	179.66	175.15	166.10	169.54	166.10	179.66	187.77	197.80	212.97	222.93	222.93
G 45.0	203.08	192.13	183.48	178.89	169.32	172.74	169.32	178.89	192.13	203.08	218.97	229.61	229.61
G 46.0	209.24	197.94	188.25	183.36	173.89	177.34	173.89	183.36	188.25	209.24	225.37	237.11	237.11
G 47.0	215.30	203.94	193.90	189.50	179.88	182.76	179.88	189.50	193.90	203.94	215.30	232.43	244.05
G 48.0	222.56	210.95	201.15	196.64	186.67	189.19	186.67	196.64	201.15	210.95	222.56	238.46	251.85
G 49.0	229.94	218.85	209.63	206.03	195.71	197.30	195.71	209.63	218.85	229.94	245.39	258.36	258.36
G 50.0	237.71	227.48	219.11	215.36	206.18	207.53	206.18	215.36	219.11	227.48	237.71	252.49	266.07
G 51.0	245.50	236.26	229.28	226.20	217.79	218.94	217.79	226.20	229.28	236.26	245.50	259.50	272.78
G 52.0	252.71	244.43	239.76	237.60	228.65	230.02	228.65	237.60	239.76	244.43	252.71	266.10	278.75
G 53.0	259.50	252.24	249.45	248.30	239.92	241.11	239.92	248.30	249.45	252.24	259.50	272.03	284.75
G 54.0	266.30	259.77	257.45	257.60	248.77	249.39	248.77	257.60	259.77	266.30	278.46	290.21	290.21
G 55.0	271.13	265.85	264.73	265.87	258.52	257.67	258.52	265.87	264.73	265.85	271.13	283.13	295.03
G 56.0	276.14	270.81	269.86	271.27	265.08	265.35	265.08	269.86	270.81	276.14	286.98	298.54	298.54
G 57.0	279.86	274.23	274.77	276.10	271.89	271.22	271.89	274.23	274.77	279.86	289.62	300.48	300.48
G 58.0	282.05	276.98	278.93	280.70	277.28	277.85	277.28	278.93	276.98	282.05	290.40	302.34	302.34
G 59.0	283.70	279.76	283.48	285.55	282.10	282.68	282.10	283.48	279.76	283.70	290.63	301.46	301.46
G 60.0	283.80	281.58	287.52	290.69	285.09	285.35	285.09	290.69	281.58	283.80	289.40	299.09	299.09
G 61.0	283.28	281.49	290.68	294.27	286.43	285.97	286.43	290.68	281.49	283.28	287.19	294.07	294.07
G 62.0	282.26	281.10	292.18	294.05	282.55	279.09	282.55	294.05	281.10	282.26	283.68	287.18	287.18
G 63.0	280.21	277.87	286.37	286.05	270.12	265.17	270.12	286.05	277.87	280.21	277.40	279.87	279.87
G 64.0	273.07	266.71	272.41	274.93	256.94	252.54	256.94	272.41	266.71	273.07	270.08	272.32	272.32
G 65.0	256.67	252.42	256.54	261.64	247.43	243.38	247.43	256.54	252.42	256.67	257.79	260.31	260.31
G 66.0	237.06	233.46	241.09	250.30	240.95	236.77	240.95	233.46	237.06	241.09	233.63	246.69	246.69
G 67.0	220.10	219.84	226.08	237.41	229.98	225.04	229.98	226.08	219.84	220.10	216.97	226.34	226.34
G 68.0	204.71	203.09	205.58	217.69	213.18	210.00	213.18	205.58	203.09	204.71	194.89	201.98	201.98
G 69.0	185.62	184.05	183.23	193.77	192.47	192.04	192.47	183.23	184.05	185.62	177.66	179.45	179.45
G 70.0	165.92	163.50	158.70	167.41	167.26	167.57	167.26	163.50	165.92	165.92	158.57	162.11	162.11
G 71.0	144.21	140.96	135.19	138.56	141.39	143.70	141.39	138.56	135.19	144.21	139.54	144.91	144.91
G 72.0	123.29	119.00	110.75	111.91	113.47	117.14	113.47	110.75	119.00	123.29	119.01	124.83	124.83

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S 3.7-2M	Codice 18-009-2218	Codice L-ECR-0F2H1-3000-700-2M-70-25
Nome ECO RAYS TP 0F2H1 S 3.7-2M	Nome ECO RAYS TP 0F2H1 S 3.7-2M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 3/18

	C 130.00	C 135.00	C 140.00	C 145.00	C 150.00	C 155.00	C 160.00	C 165.00	C 170.00	C 175.00	C 180.00	C 185.00	C 190.00
G 0.0	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45
G 1.0	178.81	178.45	178.77	179.00	178.94	179.62	179.49	180.28	180.46	181.01	180.63	181.01	180.46
G 2.0	178.54	177.51	177.36	176.91	176.75	177.11	177.60	178.75	179.43	180.39	180.50	180.39	179.43
G 3.0	175.57	175.15	173.22	175.44	175.67	174.94	174.92	175.96	177.13	178.69	179.02	178.69	177.13
G 4.0	177.77	175.74	174.57	171.67	170.65	174.44	173.37	173.62	175.18	177.46	178.81	177.46	175.18
G 5.0	177.91	175.09	173.58	172.86	171.87	175.78	174.84	174.29	175.40	178.35	180.23	178.35	175.40
G 6.0	182.00	179.47	177.58	174.79	176.16	179.39	178.06	176.71	176.43	179.85	181.83	179.85	176.43
G 7.0	185.25	184.43	183.95	181.80	178.93	181.35	179.86	178.14	176.62	179.63	182.03	179.63	176.62
G 8.0	188.43	190.47	189.44	186.97	183.29	182.12	180.86	178.95	176.55	178.76	182.06	178.76	176.55
G 9.0	188.09	192.35	193.07	191.02	187.18	183.31	181.42	179.88	176.99	178.15	182.17	178.15	176.99
G 10.0	186.92	190.72	193.48	193.57	190.74	186.18	182.24	180.81	177.62	177.70	182.28	177.70	177.62
G 11.0	181.82	188.87	193.10	194.27	193.54	189.43	183.44	181.58	178.34	177.26	181.98	177.26	178.34
G 12.0	178.78	185.12	190.79	194.00	194.56	191.75	185.26	181.81	179.02	176.75	181.48	176.75	179.02
G 13.0	174.64	181.63	189.01	193.14	194.26	193.43	187.33	181.86	179.08	176.13	180.96	176.13	179.08
G 14.0	169.03	179.23	185.60	191.73	193.01	193.57	189.23	181.78	179.02	175.45	180.51	175.45	179.02
G 15.0	162.63	176.42	180.92	188.13	191.56	192.86	190.61	182.16	178.73	174.72	179.54	174.72	178.73
G 16.0	155.53	173.24	178.77	186.35	190.00	191.88	191.47	183.13	178.24	173.96	178.47	173.96	178.24
G 17.0	148.33	168.80	176.71	182.49	188.49	190.86	191.54	184.46	177.55	173.28	177.66	173.28	177.55
G 18.0	142.03	162.97	174.78	178.74	186.83	189.75	190.86	185.50	176.70	172.46	176.57	172.46	176.70
G 19.0	138.61	155.50	172.50	177.14	184.51	188.65	190.15	186.32	175.94	171.48	175.78	171.48	175.94
G 20.0	135.37	147.94	169.59	175.64	182.37	187.30	189.12	186.87	175.18	170.69	174.87	170.69	175.18
G 21.0	135.35	141.31	166.01	174.02	180.90	185.94	188.04	186.90	174.77	169.83	173.89	169.83	174.77
G 22.0	134.16	137.52	161.77	172.44	177.64	184.41	187.01	186.60	174.65	169.16	173.13	169.16	174.65
G 23.0	133.05	134.86	156.15	170.98	175.45	183.09	185.84	186.06	174.93	168.54	172.23	168.54	174.93
G 24.0	133.07	135.88	150.71	169.63	174.22	181.88	184.56	185.18	175.17	167.87	171.42	167.87	175.17
G 25.0	134.74	134.67	144.71	168.05	173.20	180.57	183.34	184.24	175.42	167.01	170.28	167.01	175.42
G 26.0	138.94	133.83	140.90	166.17	172.50	179.56	182.06	183.01	175.43	166.26	169.31	166.26	175.43
G 27.0	145.10	134.11	137.55	164.38	171.72	178.16	181.03	181.92	175.73	165.53	168.36	165.53	175.73
G 28.0	153.00	135.30	137.05	162.18	171.06	176.89	179.96	180.51	175.63	164.72	167.25	164.72	175.63
G 29.0	161.02	137.85	137.12	159.54	170.35	176.15	179.03	179.47	175.72	163.91	165.92	163.91	175.72
G 30.0	167.69	141.69	136.96	156.95	170.20	174.58	178.31	178.39	175.68	163.01	165.33	163.01	175.68
G 31.0	172.73	147.05	137.37	154.48	170.04	173.35	177.64	177.45	175.37	162.19	164.31	162.19	175.37
G 32.0	176.64	153.45	138.70	152.17	170.23	173.16	177.25	176.49	174.98	161.37	163.34	161.37	174.98
G 33.0	179.80	160.11	140.87	150.41	170.47	173.55	177.12	176.10	174.76	160.42	162.31	160.42	174.76
G 34.0	182.42	167.02	143.81	149.65	171.41	174.18	177.12	175.68	174.06	159.62	161.35	159.62	174.06
G 35.0	185.20	173.59	147.93	149.62	172.88	175.24	177.52	175.60	173.75	158.88	160.17	158.88	173.75
G 36.0	188.38	180.57	152.76	151.35	174.43	176.73	178.20	175.70	173.51	158.27	159.02	158.27	173.51
G 37.0	192.16	186.16	158.49	153.86	176.48	178.88	179.23	176.23	173.21	157.77	158.18	157.77	173.21
G 38.0	196.31	191.98	164.96	156.77	179.23	181.37	180.82	176.99	173.26	157.53	157.50	157.53	173.26
G 39.0	201.07	198.40	172.07	160.91	182.51	184.92	183.06	178.37	173.67	157.62	156.91	157.62	173.67
G 40.0	206.40	204.52	180.67	165.77	186.32	188.79	186.31	180.52	174.60	158.06	156.56	158.06	174.60
G 41.0	212.30	212.05	188.81	171.94	191.05	193.96	189.87	183.21	175.84	158.82	156.66	158.82	175.84
G 42.0	218.24	218.47	198.60	179.05	196.48	199.90	194.41	186.12	177.59	160.18	156.96	160.18	177.59
G 43.0	224.91	226.54	207.89	186.66	201.31	206.17	199.98	190.09	179.75	162.00	157.95	162.00	179.75
G 44.0	232.40	234.55	217.18	195.18	207.43	213.19	205.93	194.92	182.81	164.26	159.44	164.26	182.81
G 45.0	240.27	242.62	226.98	204.00	214.35	220.99	212.63	199.92	186.25	167.31	161.27	167.31	186.25
G 46.0	247.45	251.17	236.32	212.93	221.55	229.23	219.54	205.98	190.43	170.84	163.89	170.84	190.43
G 47.0	255.63	259.17	245.89	222.22	228.85	237.15	227.15	212.26	195.39	174.68	166.85	174.68	195.39
G 48.0	263.94	267.82	254.66	231.99	236.40	245.13	234.58	219.58	200.82	179.63	170.40	179.63	200.82
G 49.0	271.25	275.50	264.30	240.80	243.15	251.97	242.17	225.95	207.05	185.13	175.06	185.13	207.05
G 50.0	278.24	283.27	273.22	250.20	250.90	259.17	248.91	232.94	213.41	190.63	179.73	190.63	213.41
G 51.0	285.31	290.46	281.95	259.37	257.88	265.40	255.07	239.68	220.41	196.82	184.98	196.82	220.41
G 52.0	291.73	297.33	290.70	268.44	264.52	270.93	260.24	245.47	226.54	203.14	190.31	203.14	226.54
G 53.0	297.94	304.92	297.91	278.09	271.56	275.97	264.48	250.81	233.34	209.26	195.39	209.26	233.34
G 54.0	302.85	310.37	304.76	286.38	277.92	280.26	268.29	254.73	239.31	215.50	200.49	215.50	239.31
G 55.0	308.24	315.45	310.82	294.33	284.65	284.22	271.53	257.54	243.10	220.07	205.18	220.07	243.10
G 56.0	312.05	320.45	315.72	301.35	290.83	287.90	273.73	257.15	242.87	220.07	208.57	220.07	242.87
G 57.0	315.30	324.19	319.07	306.75	296.03	290.64	273.20	252.86	241.35	222.26	213.03	222.26	241.35
G 58.0	316.17	326.48	320.82	309.94	300.76	290.00	271.66	250.35	241.85	227.16	219.12	227.16	241.85
G 59.0	316.74	326.82	321.11	311.04	301.26	287.54	272.28	250.12	241.64	230.96	226.02	230.96	241.64
G 60.0	314.41	326.14	318.95	308.75	299.12	286.70	273.78	249.34	240.11	233.19	232.29	233.19	240.11
G 61.0	311.33	323.44	314.52	300.42	296.80	286.03	274.32	247.70	237.94	234.61	238.99	234.61	237.94
G 62.0	305.29	317.26	306.00	292.51	294.76	284.15	272.69	245.88	234.08	234.37	244.76	234.37	234.08
G 63.0	296.64	308.20	295.65	284.34	289.85	280.08	269.25	242.33	230.30	233.68	249.04	233.68	230.30
G 64.0	286.57	296.55	284.09	274.82	282.70	273.85	262.69	238.33	225.92	232.43	250.08	232.43	225.92
G 65.0	276.32	281.51	274.21	263.72	272.16	265.69	254.82	232.06	219.98	230.39	249.50	230.39	219.98
G 66.0	260.90	268.11	263.22	253.80	261.66	256.91	245.53	225.27	213.42	227.65	247.02	227.65	213.42
G 67.0	244.43	253.70	252.76	241.96	248.97	245.80	235.70	216.58	204.77	223.12	241.73	223.12	204.77
G 68.0	224.44	240.63	240.10	229.99	234.67	234.03	224.00	207.53	195.25	215.95	234.47	215.95	195.25
G 69.0	204.28	225.11	227.54	217.11	220.99	221.59	211.49	196.35	183.59	205.99	225.74	205.99	183.59
G 70.0	182.32	205.26	214.26	203.26	205.40	207.90	198.95	185.38	169.85	193.98	214.66	193.98	169.85
G 71.0	162.96	183.17	195.76	189.61	189.04	193.37	186.08	171.30	152.19	175.77	197.86	175.77	152.19
G 72.0	145.71	163.27	177.34	174.99	171.31	175.70	167.25	151.98	133.65	156.96	178.82	156.96	13

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S 3.7-2M	Codice 18-009-2218	Codice L-ECR-0F2H1-3000-700-2M-70-25
Nome ECO RAYS TP 0F2H1 S 3.7-2M	Nome ECO RAYS TP 0F2H1 S 3.7-2M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

	Tabella Intensità Luminose - cd/klm						Tabella 4/18						
	C 195.00	C 200.00	C 205.00	C 210.00	C 215.00	C 220.00	C 225.00	C 230.00	C 235.00	C 240.00	C 245.00	C 250.00	C 255.00
G 0.0	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45
G 1.0	180.28	179.49	179.62	178.94	179.00	178.77	178.45	178.81	178.28	178.93	177.82	179.00	177.73
G 2.0	178.75	177.60	177.11	176.75	176.91	177.36	177.51	178.54	178.16	179.06	179.00	179.35	179.25
G 3.0	175.96	174.92	174.94	175.67	175.44	173.22	175.15	175.57	176.80	178.14	178.28	180.09	179.59
G 4.0	173.62	173.37	174.44	170.65	171.67	174.57	175.74	177.77	177.84	179.22	178.73	181.45	180.54
G 5.0	174.29	174.84	175.78	171.87	172.86	173.58	175.09	177.91	179.59	181.18	181.88	182.92	181.89
G 6.0	176.71	178.06	179.39	176.16	174.79	177.58	179.47	182.00	182.88	184.56	184.06	183.98	182.74
G 7.0	178.14	179.86	181.35	178.93	181.80	183.95	184.43	185.25	185.20	181.67	178.82	174.21	170.60
G 8.0	178.95	180.86	182.12	183.29	186.97	189.44	190.47	188.43	181.38	173.98	167.85	165.06	160.15
G 9.0	179.88	181.42	183.31	187.18	191.02	193.07	192.35	188.09	177.58	165.75	157.32	153.74	150.24
G 10.0	180.81	182.24	186.18	190.74	193.57	193.48	190.72	186.92	171.23	159.28	152.90	149.18	146.44
G 11.0	181.58	183.44	189.43	193.54	194.27	193.10	188.87	181.82	167.18	157.13	149.52	145.17	142.72
G 12.0	181.81	185.26	191.75	194.56	194.00	190.79	185.12	178.78	163.34	153.72	146.36	141.01	136.84
G 13.0	181.86	187.33	193.43	194.26	193.14	189.01	181.63	174.64	158.48	149.65	142.47	135.83	131.55
G 14.0	181.78	189.23	193.57	193.01	191.73	185.60	179.23	169.03	152.52	144.76	137.83	132.47	128.11
G 15.0	182.16	190.61	192.86	191.56	188.13	180.92	176.42	162.63	146.55	139.51	134.24	130.26	129.45
G 16.0	183.13	191.47	191.88	190.00	186.35	178.77	173.24	155.53	141.33	136.49	132.22	131.55	130.20
G 17.0	184.46	191.54	190.86	188.49	182.49	176.71	168.80	148.33	137.72	133.64	131.97	133.08	131.70
G 18.0	185.50	190.86	189.75	186.83	178.74	174.78	162.97	142.03	134.85	133.80	132.37	134.59	134.26
G 19.0	186.32	190.15	188.65	184.51	177.14	172.50	155.50	138.61	134.84	132.75	133.85	138.93	141.36
G 20.0	186.87	189.12	187.30	182.37	175.64	169.59	147.94	135.37	132.79	133.58	138.03	149.70	156.77
G 21.0	186.90	188.04	185.94	180.90	174.02	166.01	141.31	135.35	132.07	136.82	148.25	160.52	170.24
G 22.0	186.60	187.01	184.41	177.64	172.44	161.77	137.52	134.16	132.76	143.72	158.70	171.73	175.97
G 23.0	186.06	185.84	183.09	175.45	170.98	156.15	134.86	133.05	135.89	153.14	168.57	175.64	176.90
G 24.0	185.18	184.56	181.88	174.22	169.63	150.71	135.88	133.07	142.44	162.40	172.76	177.12	175.95
G 25.0	184.24	183.34	180.57	173.20	168.05	144.71	134.67	134.74	151.67	169.46	175.03	176.99	174.93
G 26.0	183.01	182.06	179.56	172.50	166.17	140.90	133.83	138.94	161.28	172.68	175.89	176.03	173.80
G 27.0	181.92	181.03	178.16	171.72	164.38	137.55	134.11	145.10	168.00	174.93	175.47	175.08	172.68
G 28.0	180.51	179.96	176.89	171.06	162.18	137.05	135.30	153.00	171.76	176.11	174.98	174.30	171.85
G 29.0	179.47	179.03	176.15	170.35	159.54	137.12	137.85	161.02	174.41	176.62	174.34	173.32	170.68
G 30.0	178.39	178.31	174.58	170.20	156.95	136.96	141.69	167.69	176.30	176.67	173.79	172.54	169.73
G 31.0	177.45	177.64	173.35	170.04	154.48	137.37	147.05	172.73	178.12	176.73	173.44	171.99	168.90
G 32.0	176.49	177.25	173.16	170.23	152.17	138.70	153.45	176.64	179.39	177.12	173.41	171.49	168.05
G 33.0	176.10	177.12	173.55	170.47	150.41	140.87	160.11	179.80	180.55	177.68	173.45	171.16	167.36
G 34.0	175.68	177.12	174.18	171.41	149.65	143.81	167.02	182.42	181.86	178.51	173.64	170.98	166.94
G 35.0	175.60	177.52	175.24	172.88	149.62	147.93	173.59	185.20	183.52	179.37	173.89	171.06	166.60
G 36.0	175.70	178.20	176.73	174.43	151.35	152.76	180.57	188.38	185.39	180.66	174.38	171.37	166.59
G 37.0	176.23	179.23	178.88	176.48	153.86	158.49	186.16	192.16	188.32	182.72	175.36	171.86	166.81
G 38.0	176.99	180.82	181.37	179.23	156.77	164.96	191.98	196.31	191.38	185.11	176.73	172.78	167.25
G 39.0	178.37	183.06	184.92	182.51	160.91	172.07	198.40	201.07	195.39	188.11	179.29	173.95	168.07
G 40.0	180.52	186.31	188.79	186.32	165.77	180.67	204.52	206.40	199.66	191.69	181.70	175.48	169.47
G 41.0	183.21	189.87	193.96	191.05	171.94	188.81	212.05	212.30	204.69	196.50	184.72	177.54	171.19
G 42.0	186.12	194.41	199.90	196.48	179.05	198.60	218.47	218.24	210.70	201.49	188.57	180.32	173.53
G 43.0	190.09	199.98	206.17	201.31	186.66	207.89	226.54	224.91	216.38	206.90	192.65	183.92	176.25
G 44.0	194.92	205.93	213.19	207.43	195.18	217.18	234.55	232.40	222.93	212.97	197.80	187.77	179.66
G 45.0	199.92	212.63	220.99	214.35	204.00	226.98	242.62	240.27	229.61	218.97	203.08	192.13	183.48
G 46.0	205.98	219.54	229.23	221.55	212.93	236.32	251.17	247.45	237.11	225.37	209.24	197.94	188.25
G 47.0	212.26	227.15	237.15	228.85	222.22	245.89	259.17	255.63	244.05	232.43	215.30	203.94	193.90
G 48.0	219.58	234.58	245.13	236.40	231.99	254.66	267.82	263.94	251.85	238.46	222.56	210.95	201.15
G 49.0	225.95	242.17	251.97	243.15	240.80	264.30	275.50	271.25	258.36	245.39	229.94	218.85	209.63
G 50.0	232.94	248.91	259.17	250.90	250.20	273.22	283.27	278.24	266.07	252.49	237.71	227.48	219.11
G 51.0	239.68	255.07	265.40	257.88	259.37	281.95	290.46	285.31	272.78	259.50	245.50	236.26	229.28
G 52.0	245.47	260.24	270.93	264.52	268.44	290.70	297.33	291.73	278.75	266.10	252.71	244.43	239.76
G 53.0	250.81	264.48	275.97	271.56	278.09	297.91	304.92	297.94	284.75	272.03	259.50	252.24	249.45
G 54.0	254.73	268.29	280.26	277.92	286.38	304.76	310.37	302.85	290.21	278.46	266.30	259.77	257.45
G 55.0	257.54	271.53	284.22	284.65	294.33	310.82	315.45	308.24	295.03	283.13	271.13	265.85	264.73
G 56.0	257.15	273.73	287.90	290.83	301.35	315.72	320.45	312.05	298.54	286.98	276.14	270.81	269.86
G 57.0	252.86	273.20	290.64	296.03	306.75	319.07	324.19	315.30	300.48	289.62	279.86	274.23	274.77
G 58.0	250.35	271.66	290.00	300.76	309.94	320.82	326.48	316.17	302.34	290.40	282.05	276.98	278.93
G 59.0	250.12	272.28	287.54	301.26	311.04	321.11	326.82	316.74	301.46	290.63	283.70	279.76	283.48
G 60.0	249.34	273.78	286.70	299.12	308.75	318.95	326.14	314.41	299.09	289.40	283.80	281.58	287.52
G 61.0	247.70	274.32	286.03	296.80	300.42	314.52	323.44	311.33	294.07	287.19	283.28	281.49	290.68
G 62.0	245.88	272.69	284.15	294.76	292.51	306.00	317.26	305.29	287.18	283.68	282.26	281.10	292.18
G 63.0	242.33	269.25	280.08	289.85	284.34	295.65	308.20	296.64	279.87	277.40	280.21	277.87	286.37
G 64.0	238.33	262.69	273.85	282.70	274.82	284.09	296.55	286.57	272.32	270.08	273.07	266.71	272.41
G 65.0	232.06	254.82	265.69	272.16	263.72	274.21	281.51	276.32	260.31	257.79	256.67	252.42	256.54
G 66.0	225.27	245.53	256.91	261.66	253.80	263.22	268.11	260.90	246.69	238.63	237.06	233.46	241.09
G 67.0	216.58	235.70	245.80	248.97	241.96	252.76	253.70	244.43	226.34	216.97	220.10	219.84	226.08
G 68.0	207.53	224.00	234.03	234.67	229.99	240.10	240.63	224.44	201.98	194.89	204.71	203.09	205.58
G 69.0	196.35	211.49	221.59	220.99	217.11	227.54	225.11	204.28	179.45	177.66	185.62	184.05	183.23
G 70.0	185.38	198.95	207.90	205.40	203.26	214.26	205.26	182.32	162.11	158.57	165.92	163.50	158.70
G 71.0	171.30	186.08	193.37	189.04	189.61	195.76	183.17	162.96	144.91	139.54	144.21	140.96	135.19
G 72.0	151.98	167.25	175.70	171.31	174.99	177.34	163.27	145.71	124.83	119.01	123.29	119.00	110.75

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S 3.7-2M	Codice 18-009-2218	Codice L-ECR-0F2H1-3000-700-2M-70-25
Nome ECO RAYS TP 0F2H1 S 3.7-2M	Nome ECO RAYS TP 0F2H1 S 3.7-2M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

	Tabella Intensità Luminose - cd/klm						Tabella 5/18						
	C 260.00	C 265.00	C 270.00	C 275.00	C 280.00	C 285.00	C 290.00	C 295.00	C 300.00	C 305.00	C 310.00	C 315.00	C 320.00
G 0.0	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45	180.45
G 1.0	178.45	178.11	178.81	178.11	178.45	177.73	179.00	177.82	178.93	178.28	178.81	178.45	178.77
G 2.0	179.30	179.44	179.91	179.44	179.30	179.25	179.35	179.00	179.06	178.16	178.54	177.51	177.36
G 3.0	179.61	179.89	179.44	179.89	179.61	179.59	180.09	178.28	178.14	176.80	175.57	175.15	173.22
G 4.0	180.84	179.54	179.69	179.54	180.84	180.54	181.45	178.73	179.22	177.84	177.77	175.74	174.57
G 5.0	181.77	179.80	179.75	179.80	181.77	181.89	182.92	181.88	181.18	179.59	177.91	175.09	173.58
G 6.0	180.75	179.50	178.08	179.50	180.75	182.74	183.98	184.06	184.56	182.88	182.00	179.47	177.58
G 7.0	168.68	166.88	165.51	166.88	168.68	170.60	174.21	178.82	181.67	185.20	185.25	184.43	183.95
G 8.0	158.95	152.81	152.01	152.81	158.95	160.15	165.06	167.85	173.98	181.38	188.43	190.47	189.44
G 9.0	147.36	140.64	138.04	140.64	147.36	150.24	153.74	157.32	165.75	177.58	188.09	192.35	193.07
G 10.0	143.19	135.58	132.76	135.58	143.19	146.44	149.18	152.90	159.28	171.23	186.92	190.72	193.48
G 11.0	137.96	132.46	130.65	132.46	137.96	142.72	145.17	149.52	157.13	167.18	181.82	188.87	193.10
G 12.0	134.01	130.85	129.23	130.85	134.01	136.84	141.01	146.36	153.72	163.34	178.78	185.12	190.79
G 13.0	131.95	131.44	130.17	131.44	131.95	131.55	135.83	142.47	149.65	158.48	174.64	181.63	189.01
G 14.0	130.75	132.62	130.73	132.62	130.75	128.11	132.47	137.83	144.76	152.52	169.03	179.23	185.60
G 15.0	132.52	133.97	132.22	133.97	132.52	129.45	130.26	134.24	139.51	146.55	162.63	176.42	180.92
G 16.0	133.32	134.74	133.04	134.74	133.32	130.20	131.55	132.22	136.49	141.33	155.53	173.24	178.77
G 17.0	134.15	136.03	134.76	136.03	134.15	131.70	133.08	131.97	133.64	137.72	148.33	168.80	176.71
G 18.0	137.69	140.26	141.05	140.26	137.69	134.26	134.59	132.37	133.80	134.85	142.03	162.97	174.78
G 19.0	148.86	154.92	155.36	154.92	148.86	141.36	138.93	133.85	132.75	134.84	138.61	155.50	172.50
G 20.0	161.29	169.53	166.15	169.53	161.29	156.77	149.70	138.03	133.58	132.79	135.37	147.94	169.59
G 21.0	173.88	178.89	176.76	178.89	173.88	170.24	160.52	148.25	136.82	132.07	135.35	141.31	166.01
G 22.0	175.93	177.43	175.35	177.43	175.93	175.97	171.73	158.70	143.72	132.76	134.16	137.52	161.77
G 23.0	174.83	176.42	174.31	176.42	174.83	176.90	175.64	168.57	153.14	135.89	133.05	134.86	156.15
G 24.0	173.86	175.53	173.44	175.53	173.86	175.95	177.12	172.76	162.40	142.44	133.07	135.88	150.71
G 25.0	172.68	174.51	172.84	174.51	172.68	174.93	176.99	175.03	169.46	151.67	134.74	134.67	144.71
G 26.0	171.50	173.08	171.75	173.08	171.50	173.80	176.03	175.89	172.68	161.28	138.94	133.83	140.90
G 27.0	170.48	171.91	170.43	171.91	170.48	172.68	175.08	175.47	174.93	168.00	145.10	134.11	137.55
G 28.0	169.69	170.56	169.45	170.56	169.69	171.85	174.30	174.98	176.11	171.76	153.00	135.30	137.05
G 29.0	168.76	169.34	168.43	169.34	168.76	170.68	173.32	174.34	176.62	174.41	161.02	137.85	137.12
G 30.0	168.00	167.99	167.36	167.99	168.00	169.73	172.54	173.79	176.67	176.30	167.69	141.69	136.96
G 31.0	167.14	166.34	166.03	166.34	167.14	168.90	171.99	173.44	176.73	178.12	172.73	147.05	137.37
G 32.0	166.33	164.97	165.10	164.97	166.33	168.05	171.49	173.41	177.12	179.39	176.64	153.45	138.70
G 33.0	165.68	163.61	164.25	163.61	165.68	167.36	171.16	173.45	177.68	180.55	179.80	160.11	140.87
G 34.0	165.24	162.50	163.42	162.50	165.24	166.94	170.98	173.64	178.51	181.86	182.42	167.02	143.81
G 35.0	164.90	161.39	162.70	161.39	164.90	166.60	171.06	173.89	179.37	183.52	185.20	173.59	147.93
G 36.0	164.74	160.53	162.44	160.53	164.74	166.59	171.37	174.38	180.66	185.39	188.38	180.57	152.76
G 37.0	164.61	160.01	162.07	160.01	164.61	166.81	171.86	175.36	182.72	188.32	192.16	186.16	158.49
G 38.0	164.85	159.55	162.01	159.55	164.85	167.25	172.78	176.73	185.11	191.38	196.31	191.98	164.96
G 39.0	165.57	159.38	161.98	159.38	165.57	168.07	173.95	179.29	188.11	195.39	201.07	198.40	172.07
G 40.0	166.79	159.71	162.55	159.71	166.79	169.47	175.48	181.70	191.69	199.66	206.40	204.52	180.67
G 41.0	167.93	160.47	163.25	160.47	167.93	171.19	177.54	184.72	196.50	204.69	212.30	212.05	188.81
G 42.0	169.86	161.57	164.59	161.57	169.86	173.53	180.32	188.57	201.49	210.70	218.24	218.47	198.60
G 43.0	172.27	163.44	166.73	163.44	172.27	176.25	183.92	192.65	206.90	216.38	224.91	226.54	207.89
G 44.0	175.15	166.10	169.54	166.10	175.15	179.66	187.77	197.80	212.97	222.93	232.40	234.55	217.18
G 45.0	178.89	169.32	172.74	169.32	178.89	183.48	192.13	203.08	218.97	229.61	240.27	242.62	226.98
G 46.0	183.36	173.89	177.34	173.89	183.36	188.25	197.94	209.24	225.37	237.11	247.45	251.17	236.32
G 47.0	189.50	179.88	182.76	179.88	189.50	193.90	203.94	215.30	232.43	244.05	255.63	259.17	245.89
G 48.0	196.64	186.67	189.19	186.67	196.64	201.15	210.95	222.56	238.46	251.85	263.94	267.82	254.66
G 49.0	206.03	195.71	197.30	195.71	206.03	209.63	218.85	229.94	245.39	258.36	271.25	275.50	264.30
G 50.0	215.36	206.18	207.53	206.18	215.36	219.11	227.48	237.71	252.49	266.07	278.24	283.27	273.22
G 51.0	226.20	217.79	218.94	217.79	226.20	229.28	236.26	245.50	259.50	272.78	285.31	290.46	281.95
G 52.0	237.60	228.65	230.02	228.65	237.60	239.76	244.43	252.71	266.10	278.75	291.73	297.33	290.70
G 53.0	248.30	239.92	241.11	239.92	248.30	249.45	252.24	259.50	272.03	284.75	297.94	304.92	297.91
G 54.0	257.60	248.77	249.39	248.77	257.60	257.45	259.77	266.30	278.46	290.21	302.85	310.37	304.76
G 55.0	265.87	258.52	257.67	258.52	265.87	264.73	265.85	271.13	283.13	295.03	308.24	315.45	310.82
G 56.0	271.27	265.08	265.35	265.08	271.27	269.86	270.81	276.14	286.98	298.54	312.05	320.45	315.72
G 57.0	276.10	271.89	271.22	271.89	276.10	274.77	274.23	279.86	289.62	300.48	315.30	324.19	319.07
G 58.0	280.70	277.28	277.85	277.28	280.70	278.93	276.98	282.05	290.40	302.34	316.17	326.48	320.82
G 59.0	285.55	282.10	282.68	282.10	285.55	283.48	279.76	283.70	290.63	301.46	316.74	326.82	321.11
G 60.0	290.69	285.09	285.35	285.09	290.69	287.52	281.58	283.80	289.40	299.09	314.41	326.14	318.95
G 61.0	294.27	286.43	285.97	286.43	294.27	290.68	281.49	283.28	287.19	294.07	311.33	323.44	314.52
G 62.0	294.05	282.55	279.09	282.55	294.05	292.18	281.10	282.26	283.68	287.18	305.29	317.26	306.00
G 63.0	286.05	270.12	265.17	270.12	286.05	286.37	277.87	280.21	277.40	279.87	296.64	308.20	295.65
G 64.0	274.93	256.94	252.54	256.94	274.93	272.41	266.71	273.07	270.08	272.32	286.57	296.55	284.09
G 65.0	261.64	247.43	243.38	247.43	261.64	256.54	252.42	256.67	257.79	260.31	276.32	281.51	274.21
G 66.0	250.30	240.95	236.77	240.95	250.30	241.09	233.46	237.06	238.63	246.69	260.90	268.11	263.22
G 67.0	237.41	229.98	225.04	229.98	237.41	226.08	219.84	220.10	216.97	226.34	244.43	253.70	252.76
G 68.0	217.69	213.18	210.00	213.18	217.69	205.58	203.09	204.71	194.89	201.98	224.44	240.63	240.10
G 69.0	193.77	192.47	192.04	192.47	193.77	183.23	184.05	185.62	177.66	179.45	204.28	225.11	227.54
G 70.0	167.41	167.26	167.57	167.26	167.41	158.70	163.50	165.92	158.57	162.11	182.32	205.26	214.26
G 71.0	138.56	141.39	143.70	141.39	138.56	135.19	140.96	144.21	139.54	144.91	162.96	183.17	195.76
G 72.0	111.91	113.47	117.14	113.47	111.91	110.75	119.00	123.29	119.01	124.83	145.71	163.27	177.34

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S 3.7-2M	Codice 18-009-2218	Codice L-ECR-0F2H1-3000-700-2M-70-25
Nome ECO RAYS TP 0F2H1 S 3.7-2M	Nome ECO RAYS TP 0F2H1 S 3.7-2M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 6/18

	C 325.00	C 330.00	C 335.00	C 340.00	C 345.00	C 350.00	C 355.00
G 0.0	180.45	180.45	180.45	180.45	180.45	180.45	180.45
G 1.0	179.00	178.94	179.62	179.49	180.28	180.46	181.01
G 2.0	176.91	176.75	177.11	177.60	178.75	179.43	180.39
G 3.0	175.44	175.67	174.94	174.92	175.96	177.13	178.69
G 4.0	171.67	170.65	174.44	173.37	173.62	175.18	177.46
G 5.0	172.86	171.87	175.78	174.84	174.29	175.40	178.35
G 6.0	174.79	176.16	179.39	178.06	176.71	176.43	179.85
G 7.0	181.80	178.93	181.35	179.86	178.14	176.62	179.63
G 8.0	186.97	183.29	182.12	180.86	178.95	176.55	178.76
G 9.0	191.02	187.18	183.31	181.42	179.88	176.99	178.15
G 10.0	193.57	190.74	186.18	182.24	180.81	177.62	177.70
G 11.0	194.27	193.54	189.43	183.44	181.58	178.34	177.26
G 12.0	194.00	194.56	191.75	185.26	181.81	179.02	176.75
G 13.0	193.14	194.26	193.43	187.33	181.86	179.08	176.13
G 14.0	191.73	193.01	193.57	189.23	181.78	179.02	175.45
G 15.0	188.13	191.56	192.86	190.61	182.16	178.73	174.72
G 16.0	186.35	190.00	191.88	191.47	183.13	178.24	173.96
G 17.0	182.49	188.49	190.86	191.54	184.46	177.55	173.28
G 18.0	178.74	186.83	189.75	190.86	185.50	176.70	172.46
G 19.0	177.14	184.51	188.65	190.15	186.32	175.94	171.48
G 20.0	175.64	182.37	187.30	189.12	186.87	175.18	170.69
G 21.0	174.02	180.90	185.94	188.04	186.90	174.77	169.83
G 22.0	172.44	177.64	184.41	187.01	186.60	174.65	169.16
G 23.0	170.98	175.45	183.09	185.84	186.06	174.93	168.54
G 24.0	169.63	174.22	181.88	184.56	185.18	175.17	167.87
G 25.0	168.05	173.20	180.57	183.34	184.24	175.42	167.01
G 26.0	166.17	172.50	179.56	182.06	183.01	175.43	166.26
G 27.0	164.38	171.72	178.16	181.03	181.92	175.73	165.53
G 28.0	162.18	171.06	176.89	179.96	180.51	175.63	164.72
G 29.0	159.54	170.35	176.15	179.03	179.47	175.72	163.91
G 30.0	156.95	170.20	174.58	178.31	178.39	175.68	163.01
G 31.0	154.48	170.04	173.35	177.64	177.45	175.37	162.19
G 32.0	152.17	170.23	173.16	177.25	176.49	174.98	161.37
G 33.0	150.41	170.47	173.55	177.12	176.10	174.76	160.42
G 34.0	149.65	171.41	174.18	177.12	175.68	174.06	159.62
G 35.0	149.62	172.88	175.24	177.52	175.60	173.75	158.88
G 36.0	151.35	174.43	176.73	178.20	175.70	173.51	158.27
G 37.0	153.86	176.48	178.88	179.23	176.23	173.21	157.77
G 38.0	156.77	179.23	181.37	180.82	176.99	173.26	157.53
G 39.0	160.91	182.51	184.92	183.06	178.37	173.67	157.62
G 40.0	165.77	186.32	188.79	186.31	180.52	174.60	158.06
G 41.0	171.94	191.05	193.96	189.87	183.21	175.84	158.82
G 42.0	179.05	196.48	199.90	194.41	186.12	177.59	160.18
G 43.0	186.66	201.31	206.17	199.98	190.09	179.75	162.00
G 44.0	195.18	207.43	213.19	205.93	194.92	182.81	164.26
G 45.0	204.00	214.35	220.99	212.63	199.92	186.25	167.31
G 46.0	212.93	221.55	229.23	219.54	205.98	190.43	170.84
G 47.0	222.22	228.85	237.15	227.15	212.26	195.39	174.68
G 48.0	231.99	236.40	245.13	234.58	219.58	200.82	179.63
G 49.0	240.80	243.15	251.97	242.17	225.95	207.05	185.13
G 50.0	250.20	250.90	259.17	248.91	232.94	213.41	190.63
G 51.0	259.37	257.88	265.40	255.07	239.68	220.41	196.82
G 52.0	268.44	264.52	270.93	260.24	245.47	226.54	203.14
G 53.0	278.09	271.56	275.97	264.48	250.81	233.34	209.26
G 54.0	286.38	277.92	280.26	268.29	254.73	239.31	215.50
G 55.0	294.33	284.65	284.22	271.53	257.54	243.10	220.07
G 56.0	301.35	290.83	287.90	273.73	257.15	242.87	220.07
G 57.0	306.75	296.03	290.64	273.20	252.86	241.35	222.26
G 58.0	309.94	300.76	290.00	271.66	250.35	241.85	227.16
G 59.0	311.04	301.26	287.54	272.28	250.12	241.64	230.96
G 60.0	308.75	299.12	286.70	273.78	249.34	240.11	233.19
G 61.0	300.42	296.80	286.03	274.32	247.70	237.94	234.61
G 62.0	292.51	294.76	284.15	272.69	245.88	234.08	234.37
G 63.0	284.34	289.85	280.08	269.25	242.33	230.30	233.68
G 64.0	274.82	282.70	273.85	262.69	238.33	225.92	232.43
G 65.0	263.72	272.16	265.69	254.82	232.06	219.98	230.39
G 66.0	253.80	261.66	256.91	245.53	225.27	213.42	227.65
G 67.0	241.96	248.97	245.80	235.70	216.58	204.77	223.12
G 68.0	229.99	234.67	234.03	224.00	207.53	195.25	215.95
G 69.0	217.11	220.99	221.59	211.49	196.35	183.59	205.99
G 70.0	203.26	205.40	207.90	198.95	185.38	169.85	193.98
G 71.0	189.61	189.04	193.37	186.08	171.30	152.19	175.77
G 72.0	174.99	171.31	175.70	167.25	151.98	133.65	156.96

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S 3.7-2M	Codice 18-009-2218	Codice L-ECR-0F2H1-3000-700-2M-70-25
Nome ECO RAYS TP 0F2H1 S 3.7-2M	Nome ECO RAYS TP 0F2H1 S 3.7-2M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 7/18

	C 0.00	C 5.00	C 10.00	C 15.00	C 20.00	C 25.00	C 30.00	C 35.00	C 40.00	C 45.00	C 50.00	C 55.00	C 60.00
G 73.0	160.96	140.11	118.91	135.47	149.11	155.46	151.83	158.34	157.63	145.28	127.85	105.51	99.01
G 74.0	139.95	122.66	106.32	123.54	133.51	136.18	133.19	138.63	137.14	125.80	107.31	86.83	78.72
G 75.0	118.22	104.94	93.19	109.95	118.40	118.75	112.55	119.83	120.12	106.67	86.65	66.01	60.28
G 76.0	96.46	89.21	81.10	96.21	102.71	100.88	95.78	101.66	98.60	84.39	65.23	49.91	44.53
G 77.0	74.03	69.59	66.41	82.10	85.91	83.07	78.95	86.78	76.64	60.46	47.24	37.28	32.81
G 78.0	53.32	51.36	52.32	64.26	67.19	62.66	61.43	67.27	56.05	42.61	33.94	27.86	24.83
G 79.0	36.16	36.66	38.07	47.38	48.79	42.78	42.62	47.05	38.03	29.38	24.51	20.68	18.83
G 80.0	25.66	26.60	29.25	35.44	34.41	27.63	28.35	31.34	25.89	21.20	17.84	15.66	14.27
G 81.0	19.02	20.39	22.78	25.98	23.52	18.39	18.74	20.73	17.91	15.37	13.63	12.04	11.16
G 82.0	14.66	15.68	17.17	18.62	16.27	12.31	12.56	13.49	12.67	11.43	10.65	9.40	8.88
G 83.0	11.31	11.85	12.94	13.33	10.83	8.44	8.53	8.88	9.01	8.85	8.23	7.44	7.07
G 84.0	8.53	8.76	9.18	9.13	7.21	5.60	5.85	6.35	6.79	6.74	6.36	5.78	5.48
G 85.0	6.13	6.15	6.53	6.19	4.77	3.82	4.06	4.49	4.96	4.92	4.73	4.31	4.10
G 86.0	3.85	3.98	4.03	3.95	3.10	2.57	2.71	3.11	3.36	3.42	3.27	3.07	2.85
G 87.0	2.08	2.14	2.21	2.12	1.83	1.56	1.69	1.93	2.14	2.08	2.07	1.94	1.88
G 88.0	0.90	1.00	1.10	1.07	0.95	0.88	0.98	1.09	1.20	1.17	1.12	1.12	1.07
G 89.0	0.24	0.46	0.47	0.50	0.49	0.44	0.48	0.49	0.54	0.49	0.50	0.43	0.45
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S 3.7-2M	Codice 18-009-2218	Codice L-ECR-0F2H1-3000-700-2M-70-25
Nome ECO RAYS TP 0F2H1 S 3.7-2M	Nome ECO RAYS TP 0F2H1 S 3.7-2M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

	Tabella Intensità Luminose - cd/klm						Tabella 8/18						
	C 65.00	C 70.00	C 75.00	C 80.00	C 85.00	C 90.00	C 95.00	C 100.00	C 105.00	C 110.00	C 115.00	C 120.00	C 125.00
G 73.0	99.98	96.88	89.49	85.96	87.47	90.09	87.47	85.96	89.49	96.88	99.98	99.01	105.51
G 74.0	78.35	75.37	67.50	63.58	63.91	66.43	63.91	63.58	67.50	75.37	78.35	78.72	86.83
G 75.0	58.88	57.42	50.68	47.10	46.17	46.23	46.17	47.10	50.68	57.42	58.88	60.28	66.01
G 76.0	43.27	41.93	37.46	34.92	33.52	33.60	33.52	34.92	37.46	41.93	43.27	44.53	49.91
G 77.0	31.52	30.79	27.92	26.12	24.56	24.52	24.56	26.12	27.92	30.79	31.52	32.81	37.28
G 78.0	23.12	22.93	20.78	19.47	18.69	18.62	18.69	19.47	20.78	22.93	23.12	24.83	27.86
G 79.0	17.59	17.22	15.71	14.99	14.56	14.42	14.56	14.99	15.71	17.22	17.59	18.83	20.68
G 80.0	13.52	13.07	12.30	11.81	11.48	11.16	11.48	11.81	12.30	13.07	13.52	14.27	15.66
G 81.0	10.54	10.33	9.84	9.52	9.18	9.16	9.18	9.52	9.84	10.33	10.54	11.16	12.04
G 82.0	8.55	8.31	7.92	7.70	7.59	7.48	7.59	7.70	7.92	8.31	8.55	8.88	9.40
G 83.0	6.70	6.59	6.41	6.30	6.20	6.12	6.20	6.30	6.41	6.59	6.70	7.07	7.44
G 84.0	5.36	5.34	5.06	4.98	4.95	4.83	4.95	4.98	5.06	5.34	5.36	5.48	5.78
G 85.0	3.96	3.92	3.85	3.79	3.74	3.61	3.74	3.79	3.85	3.92	3.96	4.10	4.31
G 86.0	2.77	2.78	2.74	2.71	2.70	2.64	2.70	2.71	2.74	2.78	2.77	2.85	3.07
G 87.0	1.84	1.85	1.79	1.81	1.75	1.70	1.75	1.81	1.79	1.85	1.84	1.88	1.94
G 88.0	1.03	0.99	0.99	0.97	0.97	1.04	0.97	0.97	0.99	0.99	1.03	1.07	1.12
G 89.0	0.40	0.40	0.38	0.38	0.35	0.36	0.35	0.38	0.38	0.40	0.40	0.45	0.43
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S 3.7-2M	Codice 18-009-2218	Codice L-ECR-0F2H1-3000-700-2M-70-25
Nome ECO RAYS TP 0F2H1 S 3.7-2M	Nome ECO RAYS TP 0F2H1 S 3.7-2M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

	Tabella Intensità Luminose - cd/klm						Tabella 9/18						
	C 130.00	C 135.00	C 140.00	C 145.00	C 150.00	C 155.00	C 160.00	C 165.00	C 170.00	C 175.00	C 180.00	C 185.00	C 190.00
G 73.0	127.85	145.28	157.63	158.34	151.83	155.46	149.11	135.47	118.91	140.11	160.96	140.11	118.91
G 74.0	107.31	125.80	137.14	138.63	133.19	136.18	133.51	123.54	106.32	122.66	139.95	122.66	106.32
G 75.0	86.65	106.67	120.12	119.83	112.55	118.75	118.40	109.95	93.19	104.94	118.22	104.94	93.19
G 76.0	65.23	84.39	98.60	101.66	95.78	100.88	102.71	96.21	81.10	89.21	96.46	89.21	81.10
G 77.0	47.24	60.46	76.64	86.78	78.95	83.07	85.91	82.10	66.41	69.59	74.03	69.59	66.41
G 78.0	33.94	42.61	56.05	67.27	61.43	62.66	67.19	64.26	52.32	51.36	53.32	51.36	52.32
G 79.0	24.51	29.38	38.03	47.05	42.62	42.78	48.79	47.38	38.07	36.66	36.16	36.66	38.07
G 80.0	17.84	21.20	25.89	31.34	28.35	27.63	34.41	35.44	29.25	26.60	25.66	26.60	29.25
G 81.0	13.63	15.37	17.91	20.73	18.74	18.39	23.52	25.98	22.78	20.39	19.02	20.39	22.78
G 82.0	10.65	11.43	12.67	13.49	12.56	12.31	16.27	18.62	17.17	15.68	14.66	15.68	17.17
G 83.0	8.23	8.85	9.01	8.88	8.53	8.44	10.83	13.33	12.94	11.85	11.31	11.85	12.94
G 84.0	6.36	6.74	6.79	6.35	5.85	5.60	7.21	9.13	9.18	8.76	8.53	8.76	9.18
G 85.0	4.73	4.92	4.96	4.49	4.06	3.82	4.77	6.19	6.53	6.15	6.13	6.15	6.53
G 86.0	3.27	3.42	3.36	3.11	2.71	2.57	3.10	3.95	4.03	3.98	3.85	3.98	4.03
G 87.0	2.07	2.08	2.14	1.93	1.69	1.56	1.83	2.12	2.21	2.14	2.08	2.14	2.21
G 88.0	1.12	1.17	1.20	1.09	0.98	0.88	0.95	1.07	1.10	1.00	0.90	1.00	1.10
G 89.0	0.50	0.49	0.54	0.49	0.48	0.44	0.49	0.50	0.47	0.46	0.24	0.46	0.47
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S 3.7-2M	Codice	18-009-2218	Codice	L-ECR-0F2H1-3000-700-2M-70-25
Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm						Tabella 10/18							
	C 195.00	C 200.00	C 205.00	C 210.00	C 215.00	C 220.00	C 225.00	C 230.00	C 235.00	C 240.00	C 245.00	C 250.00	C 255.00
G 73.0	135.47	149.11	155.46	151.83	158.34	157.63	145.28	127.85	105.51	99.01	99.98	96.88	89.49
G 74.0	123.54	133.51	136.18	133.19	138.63	137.14	125.80	107.31	86.83	78.72	78.35	75.37	67.50
G 75.0	109.95	118.40	118.75	112.55	119.83	120.12	106.67	86.65	66.01	60.28	58.88	57.42	50.68
G 76.0	96.21	102.71	100.88	95.78	101.66	98.60	84.39	65.23	49.91	44.53	43.27	41.93	37.46
G 77.0	82.10	85.91	83.07	78.95	86.78	76.64	60.46	47.24	37.28	32.81	31.52	30.79	27.92
G 78.0	64.26	67.19	62.66	61.43	67.27	56.05	42.61	33.94	27.86	24.83	23.12	22.93	20.78
G 79.0	47.38	48.79	42.78	42.62	47.05	38.03	29.38	24.51	20.68	18.83	17.59	17.22	15.71
G 80.0	35.44	34.41	27.63	28.35	31.34	25.89	21.20	17.84	15.66	14.27	13.52	13.07	12.30
G 81.0	25.98	23.52	18.39	18.74	20.73	17.91	15.37	13.63	12.04	11.16	10.54	10.33	9.84
G 82.0	18.62	16.27	12.31	12.56	13.49	12.67	11.43	10.65	9.40	8.88	8.55	8.31	7.92
G 83.0	13.33	10.83	8.44	8.53	8.88	9.01	8.85	8.23	7.44	7.07	6.70	6.59	6.41
G 84.0	9.13	7.21	5.60	5.85	6.35	6.79	6.74	6.36	5.78	5.48	5.36	5.34	5.06
G 85.0	6.19	4.77	3.82	4.06	4.49	4.96	4.92	4.73	4.31	4.10	3.96	3.92	3.85
G 86.0	3.95	3.10	2.57	2.71	3.11	3.36	3.42	3.27	3.07	2.85	2.77	2.78	2.74
G 87.0	2.12	1.83	1.56	1.69	1.93	2.14	2.08	2.07	1.94	1.88	1.84	1.85	1.79
G 88.0	1.07	0.95	0.88	0.98	1.09	1.20	1.17	1.12	1.12	1.07	1.03	0.99	0.99
G 89.0	0.50	0.49	0.44	0.48	0.49	0.54	0.49	0.50	0.43	0.45	0.40	0.40	0.38
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 S 3.7-2M	Codice 18-009-2218	Codice L-ECR-0F2H1-3000-700-2M-70-25
Nome ECO RAYS TP 0F2H1 S 3.7-2M	Nome ECO RAYS TP 0F2H1 S 3.7-2M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
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Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico
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	Tabella Intensità Luminose - cd/klm							Tabella 11/18					
	C 260.00	C 265.00	C 270.00	C 275.00	C 280.00	C 285.00	C 290.00	C 295.00	C 300.00	C 305.00	C 310.00	C 315.00	C 320.00
G 73.0	85.96	87.47	90.09	87.47	85.96	89.49	96.88	99.98	99.01	105.51	127.85	145.28	157.63
G 74.0	63.58	63.91	66.43	63.91	63.58	67.50	75.37	78.35	78.72	86.83	107.31	125.80	137.14
G 75.0	47.10	46.17	46.23	46.17	47.10	50.68	57.42	58.88	60.28	66.01	86.65	106.67	120.12
G 76.0	34.92	33.52	33.60	33.52	34.92	37.46	41.93	43.27	44.53	49.91	65.23	84.39	98.60
G 77.0	26.12	24.56	24.52	24.56	26.12	27.92	30.79	31.52	32.81	37.28	47.24	60.46	76.64
G 78.0	19.47	18.69	18.62	18.69	19.47	20.78	22.93	23.12	24.83	27.86	33.94	42.61	56.05
G 79.0	14.99	14.56	14.42	14.56	14.99	15.71	17.22	17.59	18.83	20.68	24.51	29.38	38.03
G 80.0	11.81	11.48	11.16	11.48	11.81	12.30	13.07	13.52	14.27	15.66	17.84	21.20	25.89
G 81.0	9.52	9.18	9.16	9.18	9.52	9.84	10.33	10.54	11.16	12.04	13.63	15.37	17.91
G 82.0	7.70	7.59	7.48	7.59	7.70	7.92	8.31	8.55	8.88	9.40	10.65	11.43	12.67
G 83.0	6.30	6.20	6.12	6.20	6.30	6.41	6.59	6.70	7.07	7.44	8.23	8.85	9.01
G 84.0	4.98	4.95	4.83	4.95	4.98	5.06	5.34	5.36	5.48	5.78	6.36	6.74	6.79
G 85.0	3.79	3.74	3.61	3.74	3.79	3.85	3.92	3.96	4.10	4.31	4.73	4.92	4.96
G 86.0	2.71	2.70	2.64	2.70	2.71	2.74	2.78	2.77	2.85	3.07	3.27	3.42	3.36
G 87.0	1.81	1.75	1.70	1.75	1.81	1.79	1.85	1.84	1.88	1.94	2.07	2.08	2.14
G 88.0	0.97	0.97	1.04	0.97	0.97	0.99	0.99	1.03	1.07	1.12	1.12	1.17	1.20
G 89.0	0.38	0.35	0.36	0.35	0.38	0.38	0.40	0.40	0.45	0.43	0.50	0.49	0.54
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S 3.7-2M	Codice	18-009-2218	Codice	L-ECR-0F2H1-3000-700-2M-70-25
Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 12/18

	C 325.00	C 330.00	C 335.00	C 340.00	C 345.00	C 350.00	C 355.00
G 73.0	158.34	151.83	155.46	149.11	135.47	118.91	140.11
G 74.0	138.63	133.19	136.18	133.51	123.54	106.32	122.66
G 75.0	119.83	112.55	118.75	118.40	109.95	93.19	104.94
G 76.0	101.66	95.78	100.88	102.71	96.21	81.10	89.21
G 77.0	86.78	78.95	83.07	85.91	82.10	66.41	69.59
G 78.0	67.27	61.43	62.66	67.19	64.26	52.32	51.36
G 79.0	47.05	42.62	42.78	48.79	47.38	38.07	36.66
G 80.0	31.34	28.35	27.63	34.41	35.44	29.25	26.60
G 81.0	20.73	18.74	18.39	23.52	25.98	22.78	20.39
G 82.0	13.49	12.56	12.31	16.27	18.62	17.17	15.68
G 83.0	8.88	8.53	8.44	10.83	13.33	12.94	11.85
G 84.0	6.35	5.85	5.60	7.21	9.13	9.18	8.76
G 85.0	4.49	4.06	3.82	4.77	6.19	6.53	6.15
G 86.0	3.11	2.71	2.57	3.10	3.95	4.03	3.98
G 87.0	1.93	1.69	1.56	1.83	2.12	2.21	2.14
G 88.0	1.09	0.98	0.88	0.95	1.07	1.10	1.00
G 89.0	0.49	0.48	0.44	0.49	0.50	0.47	0.46
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S 3.7-2M	Codice	18-009-2218	Codice	L-ECR-0F2H1-3000-700-2M-70-25
Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminosa - cd/klm Tabella 13/18

	C 0.00	C 5.00	C 10.00	C 15.00	C 20.00	C 25.00	C 30.00	C 35.00	C 40.00	C 45.00	C 50.00	C 55.00	C 60.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S 3.7-2M	Codice	18-009-2218	Codice	L-ECR-0F2H1-3000-700-2M-70-25
Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 14/18

	C 65.00	C 70.00	C 75.00	C 80.00	C 85.00	C 90.00	C 95.00	C 100.00	C 105.00	C 110.00	C 115.00	C 120.00	C 125.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S 3.7-2M	Codice	18-009-2218	Codice	L-ECR-0F2H1-3000-700-2M-70-25
Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 15/18

	C 130.00	C 135.00	C 140.00	C 145.00	C 150.00	C 155.00	C 160.00	C 165.00	C 170.00	C 175.00	C 180.00	C 185.00	C 190.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S 3.7-2M	Codice	18-009-2218	Codice	L-ECR-0F2H1-3000-700-2M-70-25
Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 16/18

	C 195.00	C 200.00	C 205.00	C 210.00	C 215.00	C 220.00	C 225.00	C 230.00	C 235.00	C 240.00	C 245.00	C 250.00	C 255.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S 3.7-2M	Codice	18-009-2218	Codice	L-ECR-0F2H1-3000-700-2M-70-25
Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 17/18

	C 260.00	C 265.00	C 270.00	C 275.00	C 280.00	C 285.00	C 290.00	C 295.00	C 300.00	C 305.00	C 310.00	C 315.00	C 320.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 S 3.7-2M	Codice	18-009-2218	Codice	L-ECR-0F2H1-3000-700-2M-70-25
Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Nome	ECO RAYS TP 0F2H1 S 3.7-2M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	4260.00 lm	Potenza Apparecchio	40.00 W	Efficacia	106.50 lm/W	Rendimento	100.00%
Flusso Lampade	4260.00 lm	Valore Massimo	326.82 cd/klm	Posizione	C=45.00 G=59.00	CG	Asimmetrico

Tabella Intensità Luminosa - cd/klm Tabella 18/18

	C 325.00	C 330.00	C 335.00	C 340.00	C 345.00	C 350.00	C 355.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Photometric Test Report



Costruttore	AEC ILLUMINAZIONE SRL
Tipo di prodotto	Outdoor Lighting Luminaire
Codice fotometria	ECO RAYS TP 0F2H1 STU-M 3.7-1M
Codice apparecchio	ECO RAYS TP 0F2H1 STU-M 3.7-1M
Rilievo fotometrico	18-009-2203
Descrizione apparecchio	ECO RAYS TP 0F2H1 STU-M 3.7-1M
Data delle prove	27-03-2018

Foto del prodotto



Responsabile laboratorio fotometrico	Luca Vagheggi	
Tecnico laboratorio che ha eseguito la misura	Alessio Vagheggi	



Photometric Test Report



Sommario e Allegati

Sommario	Dati apparecchio	
	Normative di riferimento	
	Procedure di riferimento	
	Condizioni di prova	
	Risultati fotometrici	
	Lista strumentazione	
	Incertezza strumentale	
Allegati	Dati Generali	X
	Tabella fotometrica delle Intensità (cd/Klm)	X
	Tabella fotometrica delle Intensità (cd)	
	Diagramma Polare	
	Diagramma Cartesiano	
	Valutazione UGR	
	Diagramma Sollner Abbagliamento	
	Flusso Zonale	
	Coefficienti di Utilizzazione	
	Isolux Unitario	
	Isocandele Percentuale	
	Tabella e Diagramma Luminanza	
	Classificazione Strade	X
Classificazione Strade IES TM-15		



Photometric Test Report



DATI APPARECCHIO

Geometria apparecchio	Circolare		
Dimensioni apparecchio (mm)	Lunghezza / Diametro	Larghezza	Altezza
	497	497	81
Dimensioni area luminosa (mm)	Lunghezza / Diametro	Larghezza	Altezza C0
	60	110	0
	Altezza C90	Altezza C180	Altezza C270
	0	0	0
Tipo sorgente	LED		
Modello sorgente	Luxeon Mx/Luxeon Tx		
Tipo Alimentatore	Elettronico / Electronic		
Modello Alimentatore	Osram OT / Philips Xi		

NORMATIVE DI RIFERIMENTO

Normative di riferimento	UNI EN 13032-1:2012 UNI EN 13032-4:2015 IES LM-79-08
Valutazione luce parassita	In accordo con Annex A UNI EN 13032-1

PROCEDURE DI RIFERIMENTO

Procedure di riferimento	I-QL-009
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Photometric Test Report



CONDIZIONI DI PROVA

Laboratorio fotometrico	Interno AEC ILLUMINAZIONE srl, in regime di sistema di qualità aziendale certificato ISO 9001:2008, autorizzato UL	
Condizioni Ambientali	Temperatura ambiente (°C)	25 ± 1
	Umidità relativa (°RH)	< 60
	Movimento aria (m/s)	< 0,2
Condizioni Elettriche	Tensione di alimentazione	230V AC ± 0,2%
	Frequenza di alimentazione	50 Hz ± 0,1%
	Distorsione armonica THD V	< 0,5%
Condizioni Preliminari Prova	Metodo di misura	Goniofotometro Sfera- spettrometro
	Sistema di riferimento misura	Sistema C-γ (Gonio) Integrale (Sfera)
	Posizione di misura	Verticale (Gonio) Orizzontale (Sfera)
	Distanza di misura (m)	9,03
	Tempo di stabilizzazione (min)	120
	Instabilità sorgente	< 0,5%

I risultati delle verifiche e prove qui riportati, si riferiscono esclusivamente agli esemplari esaminati e descritti nella presente Relazione. L'estensione del riferimento ad esemplari che non siano quelli sottoposti alle verifiche descritte in seguito esula dallo scopo delle verifiche stesse. E' vietata la riproduzione integrale o parziale senza l'autorizzazione scritta di Aec illuminazione srl. L'immagine dell'apparecchio nella prima pagina è puramente indicativa della tipologia di apparecchio sottoposto a test.



Photometric Test Report



RISULTATI FOTOMETRICI

Tipo di misura fotometrica	Assoluta
LOR (%)	100.0
Flusso luminoso apparecchio (lm)	2140
Potenza ingresso apparecchio (W)	21.5
Efficienza apparecchio (lm/W)	100
Note e commenti	

LISTA STRUMENTAZIONE

CODICE AEC	STRUMENTO	COSTRUTTORE	MODELLO
Q129	Luxmetro	Czibula&Grundmann	100310
Q130	Goniofotometro	Oxytech	T2
Q131	Termoigrometro	Delta Ohm	HD2001
Q132	Wattmetro	N4L	PPA2510
Q135	Stabilizzatore	Elettrotest	TPS/M/9KW
Q190	Sfera Integratrice	Labsphere	LMS65
Q195	Spettrometro	Labsphere	CDS610
Q205	Luxmetro	Czibula&Grundmann	161206

INCERTEZZA STRUMENTALE

Encoder goniofotometro Oxytech T2	Precisione angolare in C – gamma	$\pm 0.044^\circ$
Luxmetro C&G	f1'	< 1.23%
Spettrometro	Incertezza lunghezza d'onda	< 0.5nm
	Incertezza coordinate cromatiche	± 0.003
Wattmetro Kinetiq N4L PPA2510	Accuratezza di potenza	$< [0.05\% + 0.03\%/pf + (0.01\%/kHz)/pf]$ Rdg + 0.05%VA Rng

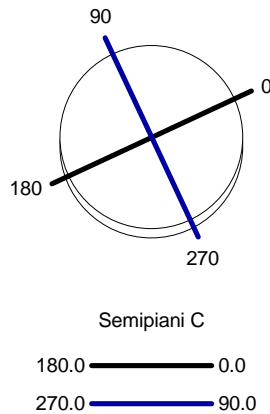


Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Codice	18-009-2203	Codice	L-ECR-0F2H1-3000-700-1M-70-25
Nome	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Nome	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

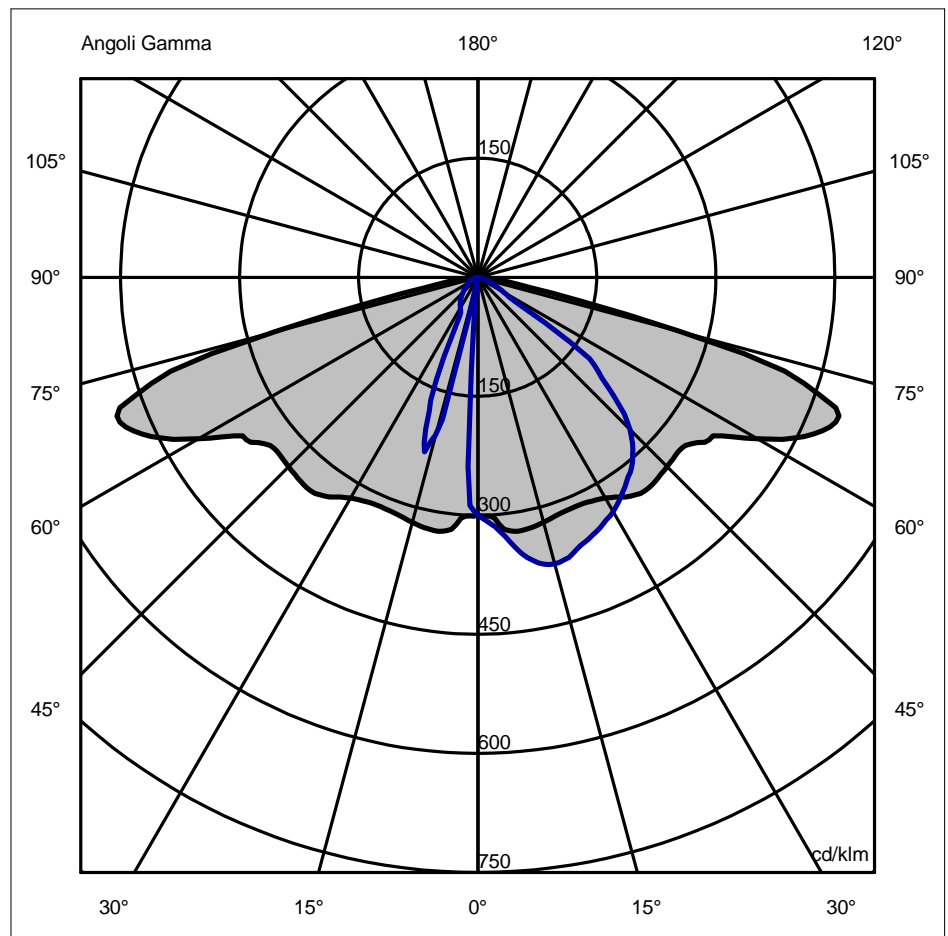
Flusso Apparecchio	2140.00 lm	Potenza Apparecchio	21.50 W	Efficacia	99.53 lm/W	Rendimento	100.00%
Flusso Lampade	2140.00 lm	Valore Massimo	803.67 cd/klm	Posizione	C=20.00 G=68.00	CG	Asimmetrico
Apparecchio Circolare		Diam.	497 mm	Alt.	81 mm	Alt.	0 mm
Area Luminosa Rettangolare		Lung.	60 mm	Larg.	110 mm		
Area Luminosa Orizzontale	0.006600 m2			Area Luminosa Piano 180°	0.000000 m2		
Area Luminosa Piano 0°	0.000000 m2			Area Luminosa Piano 270°	0.000000 m2		
Area Luminosa Piano 90°	0.000000 m2			Area Luminosa a 76°	0.001597 m2		
Sistema Coordinate	CG			Tipo di Simmetria	Asimmetrico		
Data	27-03-2018			Massimo Angolo Gamma	180		

Archivio	Lampade Apparecchio				
	Codice	Nome	Flusso [lm]	Pot. [W]	Q.tà
	L-ECR-0F2H1-3000-700-1M-70-25	L-ECR-0F2H1-3000-700-1M-70-25 - 21.50 W	2140.00	21.50	1
C.I.E.	39 71 96 100 100	D DIN 5040	A20		
F UTE	1.00 G	B NBN	BZ 6 / 0.8 / BZ 5		

Diam=497mm



ULOR 0.00 %
DLOR 100.00 %
RN 0.00 %



Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 STU-M 3.7-1M	Codice 18-009-2203	Codice L-ECR-0F2H1-3000-700-1M-70-25
Nome ECO RAYS TP 0F2H1 STU-M 3.7-1M	Nome ECO RAYS TP 0F2H1 STU-M 3.7-1M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	2140.00 lm	Potenza Apparecchio	21.50 W	Efficacia	99.53 lm/W	Rendimento	100.00%
Flusso Lampade	2140.00 lm	Valore Massimo	803.67 cd/klm	Posizione	C=20.00 G=68.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 6/18

	C 325.00	C 330.00	C 335.00	C 340.00	C 345.00	C 350.00	C 355.00
G 0.0	299.18	299.18	299.18	299.18	299.18	299.18	299.18
G 1.0	296.31	297.27	297.45	297.87	298.44	299.05	299.69
G 2.0	294.54	295.78	296.52	297.17	298.09	298.95	300.02
G 3.0	291.60	293.72	295.73	296.75	298.08	299.68	301.08
G 4.0	251.20	291.60	295.46	299.39	302.03	304.80	307.14
G 5.0	199.76	260.18	304.38	308.97	311.27	313.72	316.21
G 6.0	160.56	226.97	306.91	311.16	313.24	315.55	318.15
G 7.0	147.16	226.53	306.76	311.22	313.55	316.12	319.18
G 8.0	143.60	224.25	306.03	310.47	313.36	316.23	319.71
G 9.0	141.83	222.32	305.25	309.53	312.52	315.71	319.54
G 10.0	139.33	220.09	303.31	307.92	311.03	314.41	318.64
G 11.0	136.48	215.87	301.15	305.94	309.31	312.82	317.41
G 12.0	126.50	201.89	298.25	303.43	307.32	311.42	316.20
G 13.0	110.96	179.26	295.90	300.97	305.52	309.67	314.83
G 14.0	94.49	150.98	292.70	298.43	303.26	307.77	313.24
G 15.0	83.20	131.74	288.66	295.93	301.27	306.12	311.64
G 16.0	77.78	119.18	269.29	293.53	298.90	304.24	310.04
G 17.0	72.72	105.43	236.85	290.70	296.35	302.25	308.48
G 18.0	67.64	93.38	207.14	288.23	294.32	300.53	307.01
G 19.0	58.85	78.89	189.69	285.78	292.31	299.22	305.89
G 20.0	50.07	75.31	159.25	283.72	290.47	297.93	304.94
G 21.0	40.71	71.31	127.74	281.66	288.88	296.90	304.21
G 22.0	33.41	67.42	117.57	279.39	287.39	295.77	303.40
G 23.0	28.46	63.39	101.85	276.23	286.01	294.85	302.89
G 24.0	68.88	58.97	95.27	272.68	284.60	294.05	302.67
G 25.0	116.14	54.05	90.17	267.96	283.30	293.44	302.99
G 26.0	157.46	48.43	75.29	247.41	282.06	293.12	303.64
G 27.0	166.19	42.86	68.16	227.07	280.72	293.02	304.66
G 28.0	173.85	40.39	65.20	201.86	279.50	292.84	305.81
G 29.0	184.42	62.64	62.24	182.98	277.86	292.83	307.27
G 30.0	189.07	99.17	59.10	166.83	276.06	293.01	308.72
G 31.0	188.23	126.67	56.34	146.69	274.03	293.07	310.10
G 32.0	186.80	154.28	53.80	130.44	271.84	293.08	311.92
G 33.0	179.81	157.63	51.33	110.72	269.40	292.95	313.75
G 34.0	167.66	154.73	48.68	102.55	266.43	292.49	315.50
G 35.0	153.62	156.23	46.66	95.27	263.06	291.35	316.94
G 36.0	134.43	163.34	45.23	84.87	258.98	289.50	317.80
G 37.0	120.11	154.68	44.46	79.10	254.85	285.96	317.74
G 38.0	104.42	141.59	45.62	76.66	249.93	281.99	316.28
G 39.0	82.99	134.70	59.56	70.51	243.98	276.28	313.57
G 40.0	65.39	120.09	71.37	60.41	237.62	270.31	310.14
G 41.0	51.07	105.61	84.84	54.55	231.23	264.13	306.82
G 42.0	39.47	90.15	85.40	52.15	224.48	258.14	303.15
G 43.0	35.75	68.40	82.76	50.03	219.01	253.42	299.64
G 44.0	35.82	50.33	78.47	48.23	214.05	248.05	295.82
G 45.0	36.14	37.25	77.58	46.74	209.64	243.65	291.96
G 46.0	36.40	26.79	83.03	45.30	201.37	239.31	287.90
G 47.0	36.55	22.65	73.76	43.99	189.35	235.40	284.22
G 48.0	36.62	22.19	59.65	42.85	174.88	232.12	281.26
G 49.0	36.72	22.22	46.21	41.88	165.08	228.89	278.69
G 50.0	36.84	22.35	31.79	41.07	151.62	226.19	277.43
G 51.0	36.91	22.56	23.41	40.37	137.17	224.34	276.90
G 52.0	36.91	22.75	20.41	39.65	125.83	222.44	277.61
G 53.0	36.93	22.98	19.51	39.09	114.50	221.31	279.59
G 54.0	36.90	23.19	18.85	38.66	104.51	220.59	281.95
G 55.0	36.92	23.44	18.27	38.10	89.53	213.03	274.78
G 56.0	36.93	23.65	17.70	37.42	72.09	198.77	270.07
G 57.0	37.02	23.90	17.17	36.55	65.99	197.15	274.27
G 58.0	37.10	24.21	16.68	35.34	64.89	194.22	276.84
G 59.0	37.26	24.50	16.31	34.10	63.35	189.95	278.15
G 60.0	37.41	24.86	15.97	32.46	60.82	184.24	277.64
G 61.0	37.59	25.22	15.71	30.54	58.20	177.61	275.60
G 62.0	37.82	25.57	15.52	28.80	55.26	170.05	271.45
G 63.0	38.02	25.92	15.41	26.89	52.68	161.26	266.70
G 64.0	38.31	26.31	15.27	25.40	50.15	150.83	261.60
G 65.0	38.54	26.68	15.14	24.08	48.01	139.32	257.82
G 66.0	38.85	27.02	15.01	23.06	46.67	128.69	254.06
G 67.0	39.40	27.24	14.81	22.34	44.44	117.41	249.89
G 68.0	40.14	27.38	14.62	21.96	44.45	106.33	243.86
G 69.0	41.14	27.54	14.28	21.75	43.61	95.42	235.72
G 70.0	42.24	27.63	13.80	21.44	42.74	80.11	219.40
G 71.0	43.18	27.60	13.24	20.79	41.80	76.41	186.71
G 72.0	44.04	27.39	12.47	19.61	40.37	72.62	175.88



Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Codice	18-009-2203	Codice	L-ECR-0F2H1-3000-700-1M-70-25
Nome	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Nome	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio 2140.00 lm Potenza Apparecchio 21.50 W Efficacia 99.53 lm/W Rendimento 100.00%

Flusso Lampade 2140.00 lm Valore Massimo 803.67 cd/klm Posizione C=20.00 G=68.00 CG Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 7/18

	C 0.00	C 5.00	C 10.00	C 15.00	C 20.00	C 25.00	C 30.00	C 35.00	C 40.00	C 45.00	C 50.00	C 55.00	C 60.00
G 73.0	404.72	605.04	670.31	677.78	632.78	471.72	241.72	95.90	42.21	32.78	27.67	23.55	20.47
G 74.0	348.77	556.23	623.12	636.23	582.21	405.68	185.91	71.42	36.23	29.42	24.79	21.36	18.61
G 75.0	264.23	470.67	523.30	548.12	504.35	335.27	138.17	53.57	31.07	26.20	22.12	19.04	16.81
G 76.0	193.94	352.15	404.00	430.52	389.51	262.60	98.25	40.91	26.82	23.22	19.52	17.18	15.00
G 77.0	134.49	258.63	302.96	315.69	283.35	180.91	66.35	32.48	23.22	20.30	17.38	15.21	13.10
G 78.0	95.89	181.02	201.01	222.33	188.93	124.30	47.19	26.28	20.45	17.75	15.27	13.28	11.38
G 79.0	67.46	117.65	126.35	139.40	118.18	77.23	33.91	21.62	17.31	15.59	13.02	11.42	9.69
G 80.0	52.11	74.66	78.93	86.15	73.69	49.82	25.12	17.93	14.48	13.08	10.97	9.56	8.11
G 81.0	42.16	52.98	52.09	55.83	46.32	34.77	20.08	15.00	12.18	10.72	9.13	7.97	6.69
G 82.0	33.94	41.97	41.01	38.85	31.62	24.03	15.94	12.40	9.80	8.64	7.29	6.38	5.40
G 83.0	26.64	34.05	32.34	30.38	23.09	18.19	12.48	9.93	7.87	6.89	5.68	5.04	4.16
G 84.0	19.16	26.58	24.82	22.60	16.79	13.82	9.91	7.72	5.79	5.16	4.19	3.75	3.14
G 85.0	13.47	19.37	18.11	16.27	12.27	10.20	7.15	5.50	4.20	3.69	2.97	2.67	2.22
G 86.0	8.24	13.14	12.09	10.81	8.13	7.06	5.00	3.95	2.87	2.39	2.01	1.80	1.47
G 87.0	3.86	8.16	7.11	6.49	4.76	4.46	3.01	2.42	1.74	1.53	1.14	1.07	0.83
G 88.0	1.50	3.30	2.93	3.12	2.53	2.41	1.65	1.33	0.92	0.78	0.58	0.54	0.44
G 89.0	0.40	1.26	1.01	1.12	1.06	1.04	0.73	0.60	0.43	0.37	0.28	0.26	0.21
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 STU-M 3.7-1M	Codice 18-009-2203	Codice L-ECR-0F2H1-3000-700-1M-70-25
Nome ECO RAYS TP 0F2H1 STU-M 3.7-1M	Nome ECO RAYS TP 0F2H1 STU-M 3.7-1M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	2140.00 lm	Potenza Apparecchio	21.50 W	Efficacia	99.53 lm/W	Rendimento	100.00%
Flusso Lampade	2140.00 lm	Valore Massimo	803.67 cd/klm	Posizione	C=20.00 G=68.00	CG	Asimmetrico

Tabella Intensità Luminosa - cd/klm Tabella 8/18

	C 65.00	C 70.00	C 75.00	C 80.00	C 85.00	C 90.00	C 95.00	C 100.00	C 105.00	C 110.00	C 115.00	C 120.00	C 125.00
G 73.0	18.70	16.77	15.50	14.11	13.04	12.38	13.04	14.11	15.50	16.77	18.70	20.47	23.55
G 74.0	16.85	15.15	14.05	12.92	11.85	11.13	11.85	12.92	14.05	15.15	16.85	18.61	21.36
G 75.0	15.20	13.65	12.69	11.34	10.41	9.87	10.41	11.34	12.69	13.65	15.20	16.81	19.04
G 76.0	13.72	12.05	11.15	9.92	9.12	8.55	9.12	9.92	11.15	12.05	13.72	15.00	17.18
G 77.0	11.86	10.43	9.56	8.67	7.95	7.50	7.95	8.67	9.56	10.43	11.86	13.10	15.21
G 78.0	10.24	8.87	8.25	7.31	6.81	6.42	6.81	7.31	8.25	8.87	10.24	11.38	13.28
G 79.0	8.71	7.57	7.01	6.26	5.90	5.52	5.90	6.26	7.01	7.57	8.71	9.69	11.42
G 80.0	7.37	6.39	5.93	5.29	4.95	4.68	4.95	5.29	5.93	6.39	7.37	8.11	9.56
G 81.0	6.13	5.30	4.90	4.25	4.09	3.81	4.09	4.25	4.90	5.30	6.13	6.69	7.97
G 82.0	4.92	4.19	3.88	3.41	3.23	3.12	3.23	3.41	3.88	4.19	4.92	5.40	6.38
G 83.0	3.83	3.18	3.01	2.66	2.60	2.46	2.60	2.66	3.01	3.18	3.83	4.16	5.04
G 84.0	2.88	2.45	2.26	2.03	1.99	1.82	1.99	2.03	2.26	2.45	2.88	3.14	3.75
G 85.0	2.06	1.73	1.65	1.45	1.45	1.35	1.45	1.45	1.65	1.73	2.06	2.22	2.67
G 86.0	1.39	1.17	1.13	0.97	0.99	0.89	0.99	0.97	1.13	1.17	1.39	1.47	1.80
G 87.0	0.83	0.67	0.65	0.59	0.60	0.54	0.60	0.59	0.65	0.67	0.83	0.83	1.07
G 88.0	0.40	0.35	0.34	0.30	0.32	0.29	0.32	0.30	0.34	0.35	0.40	0.44	0.54
G 89.0	0.21	0.17	0.17	0.15	0.16	0.14	0.16	0.15	0.17	0.17	0.21	0.21	0.26
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 STU-M 3.7-1M	Codice 18-009-2203	Codice L-ECR-0F2H1-3000-700-1M-70-25
Nome ECO RAYS TP 0F2H1 STU-M 3.7-1M	Nome ECO RAYS TP 0F2H1 STU-M 3.7-1M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	2140.00 lm	Potenza Apparecchio	21.50 W	Efficacia	99.53 lm/W	Rendimento	100.00%
Flusso Lampade	2140.00 lm	Valore Massimo	803.67 cd/klm	Posizione	C=20.00 G=68.00	CG	Asimmetrico

	Tabella Intensità Luminose - cd/klm						Tabella 10/18						
	C 195.00	C 200.00	C 205.00	C 210.00	C 215.00	C 220.00	C 225.00	C 230.00	C 235.00	C 240.00	C 245.00	C 250.00	C 255.00
G 73.0	38.60	17.99	11.40	27.00	44.28	43.50	33.53	24.75	18.54	14.88	12.56	11.14	9.99
G 74.0	36.43	16.03	10.13	26.37	43.85	42.91	32.72	23.96	17.61	14.04	11.79	10.39	9.25
G 75.0	33.35	13.96	8.78	25.49	42.39	41.06	31.14	22.61	16.38	12.95	10.81	9.55	8.41
G 76.0	30.16	11.66	7.63	24.49	39.84	38.29	28.89	20.87	14.81	11.75	9.76	8.56	7.62
G 77.0	26.29	9.57	6.66	23.19	35.59	33.99	25.96	18.53	13.25	10.34	8.48	7.44	6.62
G 78.0	22.80	7.69	5.95	21.09	30.77	29.34	22.29	16.00	11.33	8.80	7.19	6.42	5.66
G 79.0	19.54	6.27	5.22	18.56	25.38	23.74	18.15	13.21	9.29	7.35	6.02	5.37	4.70
G 80.0	16.26	5.20	4.55	15.68	20.29	18.77	13.89	10.50	7.31	5.88	4.85	4.45	3.90
G 81.0	13.16	4.33	3.90	12.95	15.19	13.85	10.60	7.82	5.65	4.60	3.86	3.59	3.18
G 82.0	9.55	3.37	3.22	10.19	11.26	9.92	7.72	5.82	4.12	3.63	3.02	2.88	2.55
G 83.0	6.78	2.60	2.58	7.43	7.69	6.94	5.30	4.11	3.06	2.69	2.31	2.23	1.99
G 84.0	4.34	1.86	1.95	5.06	5.18	4.42	3.36	2.84	2.21	1.99	1.73	1.68	1.48
G 85.0	2.80	1.41	1.44	3.22	3.17	2.74	2.20	1.85	1.50	1.44	1.26	1.27	1.11
G 86.0	1.76	1.04	1.01	1.81	1.72	1.58	1.27	1.18	0.98	0.98	0.90	0.85	0.77
G 87.0	1.10	0.78	0.70	0.95	0.90	0.84	0.72	0.66	0.57	0.59	0.51	0.53	0.43
G 88.0	0.78	0.63	0.54	0.55	0.52	0.50	0.39	0.35	0.28	0.26	0.22	0.21	0.18
G 89.0	0.58	0.54	0.47	0.43	0.36	0.31	0.24	0.21	0.16	0.14	0.12	0.10	0.08
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 STU-M 3.7-1M	Codice 18-009-2203	Codice L-ECR-0F2H1-3000-700-1M-70-25
Nome ECO RAYS TP 0F2H1 STU-M 3.7-1M	Nome ECO RAYS TP 0F2H1 STU-M 3.7-1M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	2140.00 lm	Potenza Apparecchio	21.50 W	Efficacia	99.53 lm/W	Rendimento	100.00%
Flusso Lampade	2140.00 lm	Valore Massimo	803.67 cd/klm	Posizione	C=20.00 G=68.00	CG	Asimmetrico

	Tabella Intensità Luminose - cd/klm						Tabella 11/18						
	C 260.00	C 265.00	C 270.00	C 275.00	C 280.00	C 285.00	C 290.00	C 295.00	C 300.00	C 305.00	C 310.00	C 315.00	C 320.00
G 73.0	9.25	8.31	7.75	8.31	9.25	9.99	11.14	12.56	14.88	18.54	24.75	33.53	43.50
G 74.0	8.62	7.69	7.20	7.69	8.62	9.25	10.39	11.79	14.04	17.61	23.96	32.72	42.91
G 75.0	7.91	7.05	6.62	7.05	7.91	8.41	9.55	10.81	12.95	16.38	22.61	31.14	41.06
G 76.0	7.06	6.31	5.91	6.31	7.06	7.62	8.56	9.76	11.75	14.81	20.87	28.89	38.29
G 77.0	6.26	5.53	5.25	5.53	6.26	6.62	7.44	8.48	10.34	13.25	18.53	25.96	33.99
G 78.0	5.33	4.76	4.54	4.76	5.33	5.66	6.42	7.19	8.80	11.33	16.00	22.29	29.34
G 79.0	4.49	4.07	3.91	4.07	4.49	4.70	5.37	6.02	7.35	9.29	13.21	18.15	23.74
G 80.0	3.69	3.36	3.33	3.36	3.69	3.90	4.45	4.85	5.88	7.31	10.50	13.89	18.77
G 81.0	3.03	2.79	2.79	2.79	3.03	3.18	3.59	3.86	4.60	5.65	7.82	10.60	13.85
G 82.0	2.49	2.31	2.26	2.31	2.49	2.55	2.88	3.02	3.63	4.12	5.82	7.72	9.92
G 83.0	1.94	1.80	1.82	1.80	1.94	1.99	2.23	2.31	2.69	3.06	4.11	5.30	6.94
G 84.0	1.47	1.36	1.38	1.36	1.47	1.48	1.68	1.73	1.99	2.21	2.84	3.36	4.42
G 85.0	1.09	1.03	1.05	1.03	1.09	1.11	1.27	1.26	1.44	1.50	1.85	2.20	2.74
G 86.0	0.76	0.70	0.74	0.70	0.76	0.77	0.85	0.90	0.98	0.98	1.18	1.27	1.58
G 87.0	0.48	0.41	0.42	0.41	0.48	0.43	0.53	0.51	0.59	0.57	0.66	0.72	0.84
G 88.0	0.17	0.14	0.17	0.14	0.17	0.18	0.21	0.22	0.26	0.28	0.35	0.39	0.50
G 89.0	0.08	0.06	0.07	0.06	0.08	0.08	0.10	0.12	0.14	0.16	0.21	0.24	0.31
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 STU-M 3.7-1M	Codice 18-009-2203	Codice L-ECR-0F2H1-3000-700-1M-70-25
Nome ECO RAYS TP 0F2H1 STU-M 3.7-1M	Nome ECO RAYS TP 0F2H1 STU-M 3.7-1M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	2140.00 lm	Potenza Apparecchio	21.50 W	Efficacia	99.53 lm/W	Rendimento	100.00%
Flusso Lampade	2140.00 lm	Valore Massimo	803.67 cd/klm	Posizione	C=20.00 G=68.00	CG	Asimmetrico

	Tabella Intensità Luminose - cd/klm				Tabella 12/18			
	C 325.00	C 330.00	C 335.00	C 340.00	C 345.00	C 350.00	C 355.00	
G 73.0	44.28	27.00	11.40	17.99	38.60	66.84	155.72	
G 74.0	43.85	26.37	10.13	16.03	36.43	59.34	125.10	
G 75.0	42.39	25.49	8.78	13.96	33.35	51.41	98.97	
G 76.0	39.84	24.49	7.63	11.66	30.16	44.86	79.25	
G 77.0	35.59	23.19	6.66	9.57	26.29	38.12	64.54	
G 78.0	30.77	21.09	5.95	7.69	22.80	32.97	53.99	
G 79.0	25.38	18.56	5.22	6.27	19.54	27.96	45.42	
G 80.0	20.29	15.68	4.55	5.20	16.26	23.20	37.24	
G 81.0	15.19	12.95	3.90	4.33	13.16	18.67	30.15	
G 82.0	11.26	10.19	3.22	3.37	9.55	14.86	23.10	
G 83.0	7.69	7.43	2.58	2.60	6.78	11.19	16.69	
G 84.0	5.18	5.06	1.95	1.86	4.34	7.96	11.85	
G 85.0	3.17	3.22	1.44	1.41	2.80	5.09	7.69	
G 86.0	1.72	1.81	1.01	1.04	1.76	3.32	4.45	
G 87.0	0.90	0.95	0.70	0.78	1.10	1.75	2.05	
G 88.0	0.52	0.55	0.54	0.63	0.78	1.02	1.04	
G 89.0	0.36	0.43	0.47	0.54	0.58	0.63	0.54	
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G 91.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G 92.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G 93.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G 94.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G 95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G 96.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G 97.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G 98.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G 99.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G101.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G102.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G103.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G106.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G107.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G108.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G109.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G111.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G112.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G113.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G114.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G116.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Codice	18-009-2203	Codice	L-ECR-0F2H1-3000-700-1M-70-25
Nome	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Nome	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	2140.00 lm	Potenza Apparecchio	21.50 W	Efficacia	99.53 lm/W	Rendimento	100.00%
Flusso Lampade	2140.00 lm	Valore Massimo	803.67 cd/klm	Posizione	C=20.00 G=68.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 13/18

	C 0.00	C 5.00	C 10.00	C 15.00	C 20.00	C 25.00	C 30.00	C 35.00	C 40.00	C 45.00	C 50.00	C 55.00	C 60.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Codice	18-009-2203	Codice	L-ECR-0F2H1-3000-700-1M-70-25
Nome	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Nome	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	2140.00 lm	Potenza Apparecchio	21.50 W	Efficacia	99.53 lm/W	Rendimento	100.00%
Flusso Lampade	2140.00 lm	Valore Massimo	803.67 cd/klm	Posizione	C=20.00 G=68.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 14/18

	C 65.00	C 70.00	C 75.00	C 80.00	C 85.00	C 90.00	C 95.00	C 100.00	C 105.00	C 110.00	C 115.00	C 120.00	C 125.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Codice	18-009-2203	Codice	L-ECR-0F2H1-3000-700-1M-70-25
Nome	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Nome	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	2140.00 lm	Potenza Apparecchio	21.50 W	Efficacia	99.53 lm/W	Rendimento	100.00%
Flusso Lampade	2140.00 lm	Valore Massimo	803.67 cd/klm	Posizione	C=20.00 G=68.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 15/18

	C 130.00	C 135.00	C 140.00	C 145.00	C 150.00	C 155.00	C 160.00	C 165.00	C 170.00	C 175.00	C 180.00	C 185.00	C 190.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Codice	18-009-2203	Codice	L-ECR-0F2H1-3000-700-1M-70-25
Nome	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Nome	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	2140.00 lm	Potenza Apparecchio	21.50 W	Efficacia	99.53 lm/W	Rendimento	100.00%
Flusso Lampade	2140.00 lm	Valore Massimo	803.67 cd/klm	Posizione	C=20.00 G=68.00	CG	Asimmetrico

Tabella Intensità Luminosa - cd/klm Tabella 16/18

	C 195.00	C 200.00	C 205.00	C 210.00	C 215.00	C 220.00	C 225.00	C 230.00	C 235.00	C 240.00	C 245.00	C 250.00	C 255.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio	Rilievo	Lampada
Codice ECO RAYS TP 0F2H1 STU-M 3.7-1M	Codice 18-009-2203	Codice L-ECR-0F2H1-3000-700-1M-70-25
Nome ECO RAYS TP 0F2H1 STU-M 3.7-1M	Nome ECO RAYS TP 0F2H1 STU-M 3.7-1M	Numero 1
Archivio Eulumdat	Data 27-03-2018	Posizione

Flusso Apparecchio	2140.00 lm	Potenza Apparecchio	21.50 W	Efficacia	99.53 lm/W	Rendimento	100.00%
Flusso Lampade	2140.00 lm	Valore Massimo	803.67 cd/klm	Posizione	C=20.00 G=68.00	CG	Asimmetrico

Tabella Intensità Luminose - cd/klm Tabella 17/18

	C 260.00	C 265.00	C 270.00	C 275.00	C 280.00	C 285.00	C 290.00	C 295.00	C 300.00	C 305.00	C 310.00	C 315.00	C 320.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Codice	18-009-2203	Codice	L-ECR-0F2H1-3000-700-1M-70-25
Nome	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Nome	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	2140.00 lm	Potenza Apparecchio	21.50 W	Efficacia	99.53 lm/W	Rendimento	100.00%
Flusso Lampade	2140.00 lm	Valore Massimo	803.67 cd/klm	Posizione	C=20.00 G=68.00	CG	Asimmetrico

Tabella Intensità Luminosa - cd/klm Tabella 18/18

	C 325.00	C 330.00	C 335.00	C 340.00	C 345.00	C 350.00	C 355.00
G146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

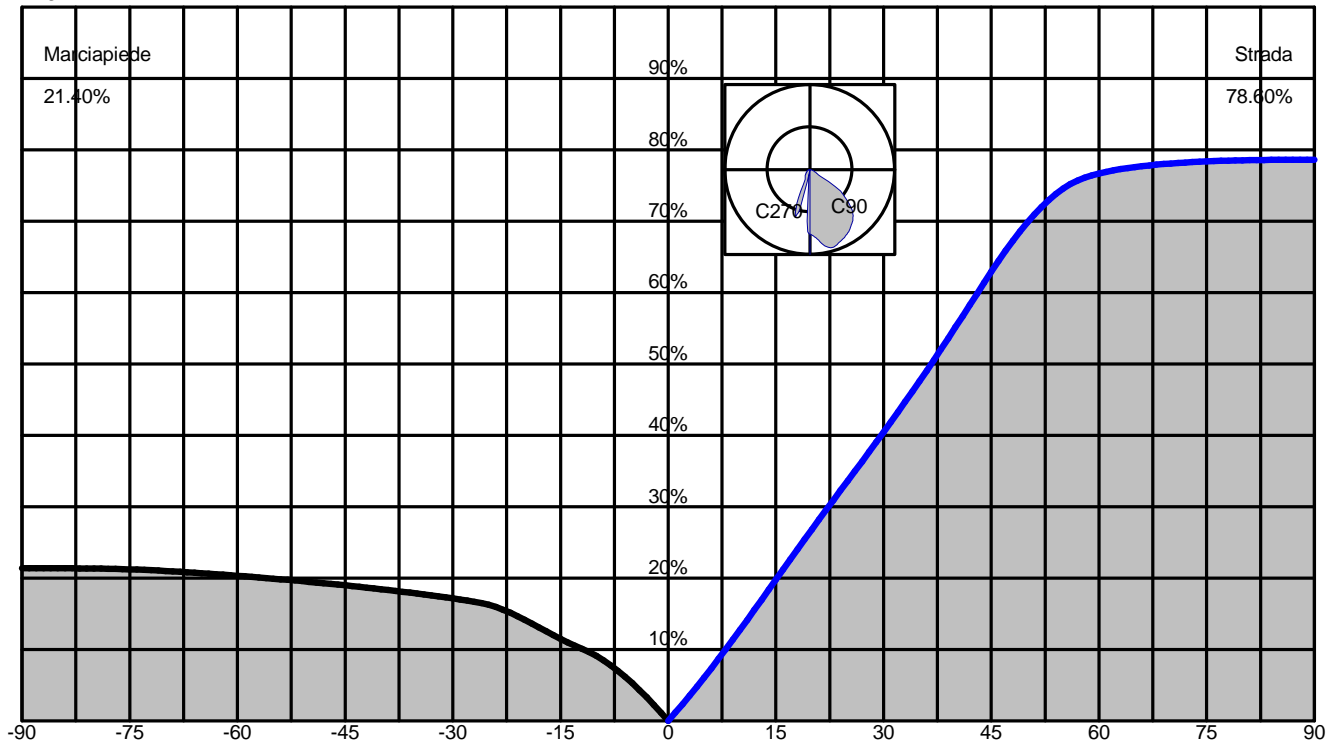
Apparecchio		Rilievo		Lampada	
Codice	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Codice	18-009-2203	Codice	L-ECR-0F2H1-3000-700-1M-70-25
Nome	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Nome	ECO RAYS TP 0F2H1 STU-M 3.7-1M	Numero	1
Archivio	Eulumdat	Data	27-03-2018	Posizione	

Flusso Apparecchio	2140.00 lm	Potenza Apparecchio	21.50 W	Efficacia	99.53 lm/W	Rendimento	100.00%
Flusso Lampade	2140.00 lm	Valore Massimo	803.67 cd/klm	Posizione	C=20.00 G=68.00	CG	Asimmetrico

Marciapiede			Strada		
Piano	0	0.00%	Piano	0	0.00%
Piano	-5	5.30%	Piano	5	6.09%
Piano	-10	9.10%	Piano	10	12.77%
Piano	-15	11.51%	Piano	15	19.80%
Piano	-20	14.18%	Piano	20	26.82%
Piano	-25	16.27%	Piano	25	33.63%
Piano	-30	17.17%	Piano	30	40.46%
Piano	-35	17.85%	Piano	35	47.59%
Piano	-40	18.46%	Piano	40	55.14%
Piano	-45	19.00%	Piano	45	62.93%
Piano	-50	19.49%	Piano	50	69.79%
Piano	-55	19.94%	Piano	55	74.58%
Piano	-60	20.34%	Piano	60	76.66%
Piano	-65	20.71%	Piano	65	77.58%
Piano	-70	21.02%	Piano	70	78.07%
Piano	-75	21.24%	Piano	75	78.37%
Piano	-80	21.35%	Piano	80	78.53%
Piano	-85	21.39%	Piano	85	78.59%
Piano	-90	21.40%	Piano	90	78.60%

Angolo Inclinazione = 0.0

DLOR = 100.00%



Spread	47.6° Medio	DLOR	100.00000 %
Throw	67.8° Intermedio	ULOR	0.00000 %
SLI (abbagliamento)	4.9 Ristretto	Rendimento	100.00000 %
Cutoff CIE	Semi Cutoff - Max: C=20.0° Gamma=68.0°	RN	0.00000 %
Cutoff Iesna	Full Cutoff	Classe Intensità Luminosa	G3
DIN5044	KB2	Indice Abbagliamento	D4
IESNA Type II Medium Asymmetrical			



STATEMENT OF COMPLIANCE

Photobiological safety of Lamp and Lamp system

Project No.: 4787162896.2.1
Applicant: AEC Illuminazione SRL
Product: LED Luminaire for street lighting
Manufacturer: AEC Illuminazione SRL
Trademark: AEC Illuminazione SRL
Model/Type: ECORAYS TP
Ratings: AC 220-240 V 50/60 Hz
Test Standards: IEC/EN 62471
Test Report No.: 4786114396.2.1
Lamp Classification Group: **EXEMPT**
Date of issue: 2014-02-17
Laboratory Manager: Walter Parmiani
Walter Parmiani

The product complies with the standards IEC 62471:2006 and EN 62471:2008 based on EU Directive 2006/25(EC). This statement of compliance applies only to the particular sample of the product and its technical documentation provided for testing. It is the responsibility of the company shown above that the products are in compliance with the applicable requirements. The detailed test results are described in the test report mentioned above. This statement does not imply assessment of the production and does not permit the use of UL's logo.



Notes:

ECORAYS TP af b c.d-e

SYMBOL	DESCRIPTION	VALUES
a	Mechanical review	From 0 to x
f	LED type - LED module	F2 = 2 LED LUXEON-M for each module F3 = 3 LED LUXEON-M for each module F2H1 = 2 LED LUXEON-M + 1 LED LUXEON-T for each module
b	Optic	STE-M: Asymmetrical optic for street lighting (extraurban) STE-S: Asymmetrical optic for street lighting (extraurban) STU-M: Asymmetrical optic for street lighting (urban) STU-S: Asymmetrical optic for street lighting (urban) STW: Asymmetrical optic for wide roads and wet asphalts lighting SV: Asymmetrical optic for narrow urban streets or highway STA, STA1: Asymmetrical optic for V and P categories STAN = Asymmetrical optic for street lighting S05 = Asymmetrical optic for wide streets. Specific optic for roadways where the width corresponds to 1,5 times the pole height. S = Symmetrical optic for urban lighting HPO = Asymmetrical optic for street or urban lighting TS = Asymmetrical optic for center street application
c	Colour temperature	3 = 3000K 4 = 4000K 5 = 5000K 6 = 5700K k ≤ 5700K
d	Driving current	3 = 350mA 5 = 525mA 7 = 700mA k ≤ 700mA
e	LED module number	1M , 2M

2015-12-02

Date of issue

Walter Parmiani
Laboratory Manager

Valutazione IPEA* - DM Ambiente - 27 settembre 2017

Apparecchio

Dati Apparecchio

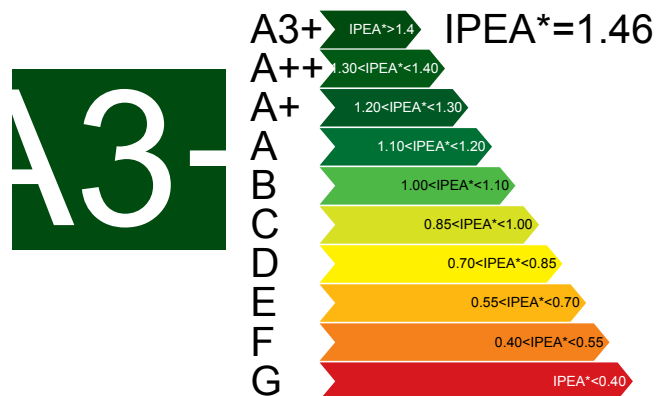
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 Produttore: AEC ILLUMINAZIONE SRL
 Nome: ECO RAYS TP 0F2H1 S05 3.7-2M
 Sorgente Luminosa: L-ECR-0F2H1-3000-700-2M-70-25
 Applicazione: Stradali (ME)

Operatore

Nome: Alessio Vagheggi
 Società: AEC ILLUMINAZIONE SRL
 Data: 27 / 03 / 2018
 File : ECO RAYS TP 0F2H1 S05 3.7-2M.LDT

Classificazione energetica

IPEA*



Altri Dati

Sorgente e Codice	L-ECR-0F2H1-3000-700	Caratt.Sorgente	
Temp.Colore e CRI	Tc:3000 Ra:70	Ottica	
Allegati		Classe Isolamento	
Alimentatore		Affidabilità Driver	
Flusso Sorgente	4260.0 lm	Potenza Apparecchio	
Flusso Totale	4260.0 lm	Vita Sorgente	
LLMF		LSF	
Inquin.Luminoso		Certificazioni	
Prezzo		Garanzia	

Valutazione IPEA* - DM Ambiente - 27 settembre 2017

Apparecchio

Dati Apparecchio

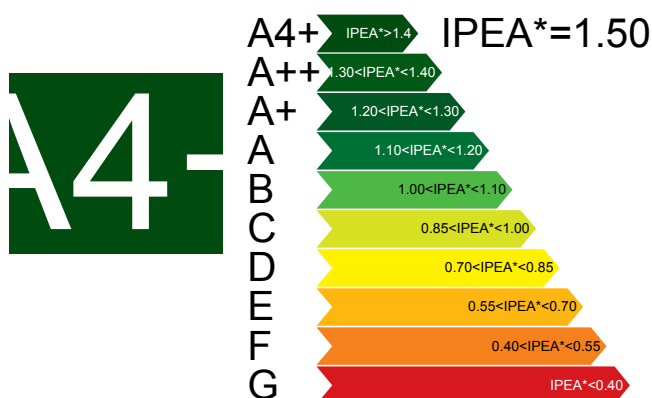
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 Produttore: AEC ILLUMINAZIONE SRL
 Nome: ECO RAYS TP 0F3 STE-M 3.7-2M
 Sorgente Luminosa: L-ECR-0F3-3000-700-2M-70-25
 Applicazione: Stradali (ME)

Operatore

Nome: Alessio Vagheggi
 Società: AEC ILLUMINAZIONE SRL
 Data: 27 / 03 / 2018
 File : ECO RAYS TP 0F3 STE-M 3.7-2M.LDT

Classificazione energetica

IPEA*



Altri Dati

Sorgente e Codice	L-ECR-0F3-3000-700-2M	Caratt.Sorgente	
Temp.Colore e CRI	Tc:3000 Ra:70	Ottica	
Allegati		Classe Isolamento	
Alimentatore		Affidabilità Driver	
Flusso Sorgente	5710.0 lm	Potenza Apparecchio	
Flusso Totale	5710.0 lm	Vita Sorgente	
LLMF		LSF	
Inquin.Luminoso		Certificazioni	
Prezzo		Garanzia	

Valutazione IPEA* - DM Ambiente - 27 settembre 2017

Apparecchio

Dati Apparecchio

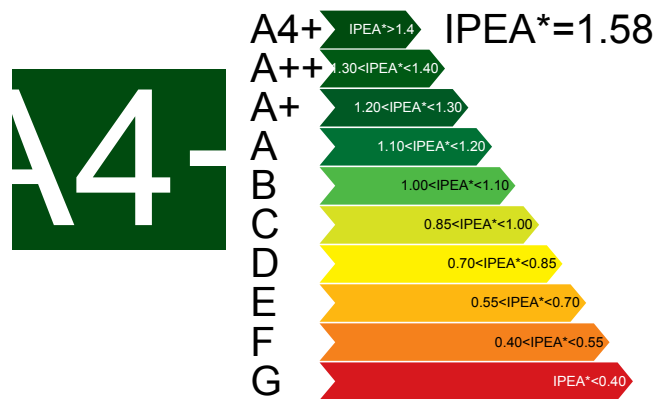
Codice: ECO RAYS TP 0F3 STW 3.5-2M
 Produttore: AEC ILLUMINAZIONE SRL
 Nome: ECO RAYS TP 0F3 STW 3.5-2M
 Sorgente Luminosa: L-ECR-0F3-3000-525-2M-70-25
 Applicazione: Stradali (ME)

Operatore

Nome: Alessio Vagheggi
 Società: AEC ILLUMINAZIONE SRL
 Data: 27 / 03 / 2018
 File : ECO RAYS TP 0F3 STW 3.5-2M.LDT

Classificazione energetica

IPEA*



Altri Dati

Sorgente e Codice	L-ECR-0F3-3000-525-2M	Caratt.Sorgente	
Temp.Colore e CRI	Tc:3000 Ra:70	Ottica	
Allegati		Classe Isolamento	
Alimentatore		Affidabilità Driver	
Flusso Sorgente	4510.0 lm	Potenza Apparecchio	
Flusso Totale	4510.0 lm	Vita Sorgente	
LLMF		LSF	
Inquin.Luminoso		Certificazioni	
Prezzo		Garanzia	

Valutazione IPEA* - DM Ambiente - 27 settembre 2017

Apparecchio

Dati Apparecchio

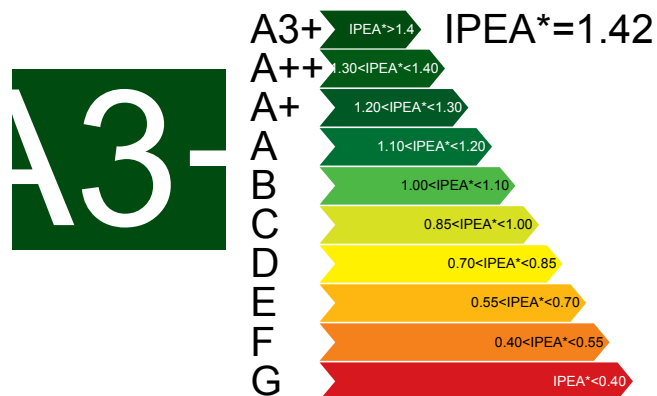
Codice: ECO RAYS TP 0F2H1 S 3.7-2M
 Produttore: AEC ILLUMINAZIONE SRL
 Nome: ECO RAYS TP 0F2H1 S 3.7-2M
 Sorgente Luminosa: L-ECR-0F2H1-3000-700-2M-70-25
 Applicazione: Aree verdi e Parchi (S)

Operatore

Nome: Alessio Vagheggi
 Società: AEC ILLUMINAZIONE SRL
 Data: 27 / 03 / 2018
 File : ECO RAYS TP 0F2H1 S 3.7-2M.LDT

Classificazione energetica

IPEA*



Altri Dati

Sorgente e Codice	L-ECR-0F2H1-3000-700	Caratt.Sorgente	
Temp.Colore e CRI	Tc:3000 Ra:70	Ottica	
Allegati		Classe Isolamento	
Alimentatore		Affidabilità Driver	
Flusso Sorgente	4260.0 lm	Potenza Apparecchio	
Flusso Totale	4260.0 lm	Vita Sorgente	
LLMF		LSF	
Inquin.Luminoso		Certificazioni	
Prezzo		Garanzia	

Valutazione IPEA* - DM Ambiente - 27 settembre 2017

Apparecchio

Dati Apparecchio

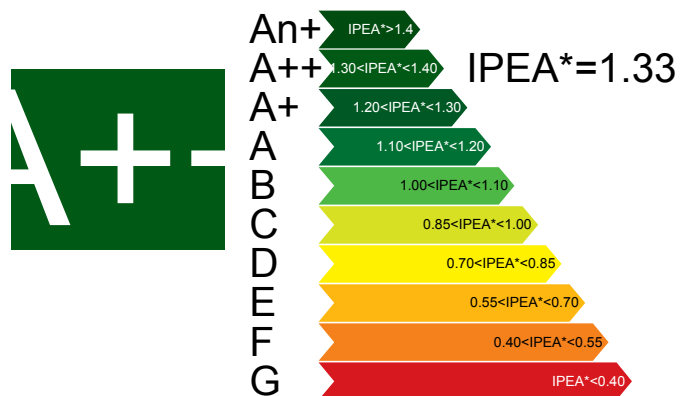
Codice: ECO RAYS TP 0F2H1 STU-M 3.7-1M
 Produttore: AEC ILLUMINAZIONE SRL
 Nome: ECO RAYS TP 0F2H1 STU-M 3.7-1M
 Sorgente Luminosa: L-ECR-0F2H1-3000-700-1M-70-25
 Applicazione: Pista Ciclo/Pedonale (S)

Operatore

Nome: Alessio Vagheggi
 Società: AEC ILLUMINAZIONE SRL
 Data: 27 / 03 / 2018
 File : ECO RAYS TP 0F2H1 STU-M 3.7-1M.LDT

Classificazione energetica

IPEA*



Altri Dati

Sorgente e Codice	L-ECR-0F2H1-3000-700	Caratt.Sorgente	
Temp.Colore e CRI	Tc:3000 Ra:70	Ottica	
Allegati		Classe Isolamento	
Alimentatore		Affidabilità Driver	
Flusso Sorgente	2140.0 lm	Potenza Apparecchio	
Flusso Totale	2140.0 lm	Vita Sorgente	
LLMF		LSF	
Inquin.Luminoso		Certificazioni	
Prezzo		Garanzia	