



Comune di PONTE DI PIAVE
Provincia di TREVISO

PROGETTO DEFINITIVO/ESECUTIVO
LAVORI DI ESTENSIONE DELLA PUBBLICA
ILLUMINAZIONE ANNO 2023
VIA TODARO E VIA LANZARINI

RELAZIONE TECNICA ILLUSTRATIVA

IL R.U.P.
(Responsabile Unico del Procedimento)

IL PROGETTISTA

Per. Ind. Simone Cescon



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SEZIONE A - DATI GENERALI

A01 OGGETTO DEGLI INTERVENTI

La presente relazione ha lo scopo di illustrare i concetti seguiti nella progettazione dei lavori di estensione della pubblica illuminazione in Via Todaro ed in Via Lanzarini nel territorio comunale di PONTE DI PIAVE (TV).

Nello studio dell'impianto, sono state seguite le seguenti normative o disposizioni legislative esistenti:

D.M. 27/09/2017 (GU n.244 del 18/10/2017 - suppl. ordinario n.333) Criteri ambientali minimi per l'acquisizione di sorgenti luminose per illuminazione pubblica, l'acquisizione di apparecchi per illuminazione pubblica e l'affidamento del servizio di progettazione di impianti di illuminazione pubblica

Legge 1 marzo 1968, n. 186 Disposizioni concernenti la produzione di materiali, apparecchiature, macchinari, installazione e impianti elettrici ed elettronici;

Norma UNI 11248 Illuminazione stradale - Selezione delle categorie illuminotecniche;

Norma UNI EN 13201-2 Illuminazione stradale - Requisiti prestazionali;

Norma UNI EN 13201-3 Illuminazione stradale - Calcolo delle prestazioni;

Norma UNI EN 13201-4 Illuminazione stradale - Metodi di misurazione delle prestazioni fotometriche;

L.R. Veneto 7 Agosto 2009, n. 17 Nuove norme per il contenimento dell'inquinamento luminoso, il risparmio energetico nell'illuminazione per esterni e per la tutela dell'ambiente e dell'attività svolta dagli osservatori astronomici;

Norma CEI 64-8/7 (2012 - fasc. 11962 - sez. 714) Impianti di illuminazione situati all'esterno;

Norma CEI 64-8 Impianti elettrici utilizzatori di bassa tensione;

Seguendo le disposizioni legislative vigenti gli impianti dovranno mantenere il funzionamento completo anche nelle ore notturne, non ottenendo con lo spegnimento programmato i requisiti di uniformità richieste dalle Norme UNI.



A02 CARATTERISTICHE DEL SISTEMA DI ALIMENTAZIONE

L'allacciamento delle utenze, sarà realizzato in bassa tensione da un nuovo punto di consegna dell'energia da parte dell'ente erogatore, in cui i dati caratteristici saranno i seguenti:

- | | |
|--|---|
| 1. Tensione nominale al punto di consegna: | 230 V |
| 2. Frequenza: | 50 Hz |
| 3. Categoria: | I (Tensioni nominali da 50 a 1000 V in alternata) |
| 4. Tensione impianto utilizzatore: | 230 V |
| 5. Sistema di distribuzione adottato: | TT |

Il sistema **TT** risulta avere le seguenti caratteristiche:

- 1° lettera indica la situazione del sistema di alimentazione verso terra;
- 2° lettera indica la situazione delle masse dell'impianto elettrico rispetto a terra;

in questo caso le lettere **T e T** hanno i seguenti significati:

T: collegamento diretto a terra di un punto, in c.a. in genere il neutro.

T: masse collegate direttamente a terra.

A fronte di ciò la consegna dell'energia da parte dell'ente erogatore, la quale si attesta al contatore di misura, è fornita con il sistema **TT** e il collegamento diretto a terra di un punto dell'impianto sarà garantito dall'ente fornitore stesso.



SEZIONE B - DIMENSIONAMENTO DEGLI IMPIANTI

B01 DIMENSIONAMENTO DELLE LINEE DI ALIMENTAZIONE

Il dimensionamento è stato realizzato tenendo conto del sistema di distribuzione, F+N, che verrà adottato e tenendo in considerazione il fatto che le utenze per l'impianto di illuminazione pubblica sono monofasi.

Il dimensionamento delle linee di alimentazione dal quadro generale al termine delle linee è stato realizzato al fini di contenere la caduta di tensione al termine della linea a valore pari a:

$\leq 5\%$

in conformità a quanto richiesto dalla Norma CEI 64-8/7.

B02 SISTEMI ADOTTATI PER IL RISPARMIO ENERGETICO

Al fine di ottenere il maggior risparmio energetico possibile sono state adottati i seguenti sistemi:

1. Apparecchi di illuminazione equipaggiati con sorgenti a LED ad alta efficienza.
2. Apparecchi di illuminazione dotati di **alimentatori dimmerabili automatici**.

Tale reattore permette di ridurre il consumo elettrico nelle ore di minor traffico, periodo in cui entra in funzione il sistema di regolazione.

Questo sistema riduce i consumi elettrici, mantenendo accesi tutti gli apparecchi di illuminazione, in conformità alle norme vigenti, e garantendo il coefficiente di uniformità richiesto.

B03 SORGENTI LUMINOSE UTILIZZATE

Le sorgenti luminose utilizzate avranno le seguenti efficienze:

Descrizione	Tipo	Potenza	Lumen/Watt	Rischio foto-biologico
LED	2 moduli	51,5 W	138	ASSENTE



B04 APPARECCHI DI ILLUMINAZIONE UTILIZZATI

Gli apparecchi di illuminazione utilizzati avranno i seguenti rendimenti:

<i>Marca apparecchio</i>	<i>Modello apparecchio</i>	<i>Potenza</i>	<i>Rendimento</i>
AEC	I-TRON Zero Z28 4.50-2M VEX	51,5 W	100%

Gli apparecchi di illuminazione avranno un'intensità luminosa massima compresa fra 0 e 0.49 candele (cd) per 1000 lumen di flusso luminoso totale emesso a 90° e oltre, come richiesto dall'art. 9, comma 2, lettera a della L.R. n°17 del 07/08/2009.



SEZIONE C - CONFORMITÀ AL D.M. 27/09/2017 E SS.MM.II.

C01 PRESTAZIONE ENERGETICA DEGLI APPARECCHI DI ILLUMINAZIONE

Con riferimento alla tabella che segue, gli apparecchi di illuminazione impiegati nell'illuminazione stradale, di grandi aree, rotatorie e parcheggi debbono avere l'indice IPEA* maggiore o uguale a quello della classe A+ fino all'anno 2021 compreso, a quello della classe A++ fino all'anno 2023 compreso a quello della classe A+++ a partire dall'anno 2024.

Tab. n°1

PRESTAZIONE ENERGETICA DELL'IMPIANTO	IPEA*
An+	$IPEA^* \geq 1,10 + (0,10 \times n)$
A++	$1,30 \leq IPEA^* < 1,40$
A+	$1,20 \leq IPEA^* < 1,30$
A	$1,10 \leq IPEA^* < 1,20$
B	$1,00 \leq IPEA^* < 1,10$
C	$0,85 \leq IPEA^* < 1,00$
D	$0,70 \leq IPEA^* < 0,85$
E	$0,55 \leq IPEA^* < 0,70$
F	$0,40 \leq IPEA^* < 0,55$
G	$IPEA^* < 0,40$

L'indice IPEA* che viene utilizzato per la valutazione delle prestazioni energetiche degli impianti di illuminazione è definito come segue:

$$IPEA = \frac{\eta_a}{\eta_r}$$

con η_a = **efficienza globale dell'apparecchio di illuminazione**, che si calcola come segue:

$$\eta_a = \frac{\Phi_{app} \cdot Dff}{P_{app}} [lm/W]$$

in cui:

Φ_{app} (lm) flusso luminoso nominale iniziale emesso dall'apparecchio di illuminazione nelle condizioni di utilizzo di progetto e a piena potenza.



P_{app} (W) potenza attiva totale assorbita dagli apparecchi di illuminazione, intesa come somma delle potenze assorbite dalle sorgenti e dalle componenti presenti all'interno dello stesso apparecchio di illuminazione (accenditore, alimentatore/reattore, condensatore, ecc.); tale potenza è quella che l'apparecchio di illuminazione assorbe dalla linea elettrica durante il suo normale funzionamento a piena potenza (comprensiva quindi di ogni apparecchiatura in grado di assorbire potenza elettrica dalla rete);

D_{ff} frazione del flusso emesso dall'apparecchio di illuminazione rivolta verso la semisfera inferiore dell'orizzonte (calcolata come rapporto fra flusso luminoso diretto verso la semisfera inferiore e flusso luminoso totale emesso), cioè al di sotto dell'angolo di 90°;

MF_i coefficiente di manutenzione adottato per il calcolo dell'area i-esima.

e con η_r = **efficienza globale di riferimento**, i cui valori sono riportati, in funzione del tipo di apparecchio di illuminazione, nelle tabelle seguenti.

Tab. n°2

Illuminazione stradale	
Potenza nominale dell'apparecchio P [W]	Efficienza globale di riferimento η_r [lm/W/]
$P \leq 65$	73
$65 < P \leq 85$	75
$85 < P \leq 115$	83
$115 < P \leq 175$	90
$175 < P \leq 285$	98
$285 < P \leq 450$	100
$450 < P$	100

C02 SISTEMA DI REGOLAZIONE DEL FLUSSO LUMINOSO

Gli apparecchi di illuminazione previsti nell'intervento in Via Peschiere sono dotati, al loro interno, di un alimentatore con sistema di regolazione denominato "DA".

Tale alimentatore consente la riduzione del flusso luminoso in modo automatico ed autonomo per singolo punto luce.

C03 TRATTAMENTI SUPERFICIALI



I prodotti utilizzati per i trattamenti superficiali dei componenti dell'impianto non sono classificati come cancerogeni, teratogeni, allergenici o dannosi per il sistema riproduttivo, in conformità alla direttiva 76/769/CEE e s.m.i..

Il ciclo di verniciatura prevede:

- fosfosgrassaggio flow-coating per eliminare olio, grasso, unto, macchie e residui provocati da lavorazioni meccaniche precedenti;
- risciacquo con acqua di rete;
- decappaggio flow-coating a base di acido fosforico per creare una buona aderenza per la vernice;
- risciacquo flow-coating con acqua di rete;
- risciacquo flow-coating finale con acqua demineralizzata a temperatura ambiente;
- asciugatura;
- applicazione della polvere poliestere in cabina;
- polimerizzazione in forno a temperatura costante.

Le verifiche sul prodotto verniciato prevedono:

- *prova di omogeneità*: garantisce che le superfici dei pezzi quando esaminate ad occhio nudo risultino verniciate in maniera uniforme, omogenea e corrispondenti al RAL richiesto;
- *prova di spessore del rivestimento*: lo spessore del rivestimento sul substrato viene determinato a campione;
- *prova di quadrettatura*: metodo di prova, effettuata a campione sul materiale verniciato, per valutare la resistenza del rivestimento di pittura al distacco dal supporto quando si incide un reticolo a maglie quadrate nel rivestimento fino a raggiungere il substrato;
- *prova di aderenza del rivestimento*: la misurazione dell'adesione del rivestimento di verniciatura viene eseguita a campione mediante la prova di strappo;
- *prova di resistenza alla corrosione*: il materiale metallico verniciato viene sottoposto alle prove in nebbia salina.

C04 RISPETTO DELLE NORME

Per quanto riguarda il rispetto delle leggi e norme di settore fare riferimento alla SEZIONE A capitolo A01 della presente relazione.



SEZIONE D - SISTEMI DI PROTEZIONE ADOTTATI

D01 PROTEZIONE CONTRO I CONTATTI DIRETTI

La protezione contro i contatti diretti con parti attive sarà assicurata mediante la realizzazione di questi sistemi:

D01.1 PROTEZIONE MEDIANTE ISOLAMENTO DELLE PARTI ATTIVE

Le parti attive saranno completamente ricoperte con un isolamento che possa essere rimosso solo mediante distruzione.

L'isolante dei componenti elettrici costruito in fabbrica dovrà soddisfare le relative Norme.

Per gli altri componenti elettrici la protezione sarà assicurata da un isolamento tale da resistere alle influenze meccaniche, chimiche, elettriche e termiche alle quali potrà essere soggetto nell'esercizio.

D01.2 PROTEZIONE MEDIANTE INVOLUCRI E BARRIERE

Le parti attive saranno poste entro involucri o dietro barriere tali da assicurare almeno il grado di protezione IPXXB o il grado IPXXD nel caso di superfici orizzontali a portata di mano.

Le barriere o gli involucri saranno saldamente fissati ed avranno una sufficiente stabilità e durata nel tempo in modo da conservare il richiesto grado di protezione ed una conveniente separazione delle parti attive, nelle condizioni di servizio prevedibili, tenuto conto delle condizioni ambientali.

Quando si rendesse necessario, per ragioni di esercizio, aprire gli involucri, si dovrà eseguire una delle seguenti operazioni:

- uso di un attrezzo o una chiave se in esemplare unico ed affidata al personale addestrato;
- sezionamento delle parti attive mediante aperture con interblocco;
- interposizione di barriere o schermi che garantiscano un grado di protezione non inferiore ad IP XXB.

D02 PROTEZIONE CONTRO I CONTATTI INDIRETTI MEDIANTE INTERRUZIONE AUTOMATICA DEL CIRCUITO

La protezione di eventuali contatti con masse metalliche normalmente non in tensione ma che per difetto di isolamento dovessero assumere un potenziale pericoloso, sarà garantita mediante il sistema di interruzione automatica del circuito.

Il dispositivo di protezione, interromperà automaticamente l'alimentazione al circuito o al componente elettrico che lo stesso dispositivo protegge in modo che in caso di guasto nel circuito o nel componente, tra una parte attiva ed una massa



o un conduttore di protezione non possa persistere, per una durata sufficiente a causare un rischio di effetti fisiologici dannosi in una persona in contatto con parti simultaneamente accessibili, una tensione di contatto presunta superiore a 50 V valore efficace in c.a.

D02.1 COORDINAMENTO DEI SISTEMI DI PROTEZIONE

Tutte le parti metalliche accessibile dell'impianto elettrico e degli utilizzatori normalmente non in tensione ma che per difetto di isolamento possano accidentalmente trovarsi sotto tensione saranno protette contro i contatti indiretti.

Tali protezioni saranno realizzate mediante la messa a terra della parti metalliche (vedi impianto di terra) ed il coordinamento con i sistemi di protezione.

In particolare utilizzando gli interruttori automatici magnetotermici differenziali previsti e verificando il valore dell'impianto di terra si rispetterà la seguente relazione:

$$R_A \times I_a < 50$$

dove:

R_A = è la somma delle resistenze del dispersore e dei conduttori di protezione delle masse in ohm;

I_a = è la corrente che provoca il funzionamento automatico del dispositivo di protezione, in ampere, corrispondente per gli interruttori differenziali alla soglia d'intervento differenziale.

D03 DIMENSIONAMENTO DEI CONDUTTORI DI PROTEZIONE

Come precedentemente descritto tutte le masse metalliche che per difetto di isolamento possano andare in tensione saranno collegate al conduttore di protezione, in particolare vengono previsti lungo i lati dei pontili parallelamente alle linee di alimentazione i conduttori di protezione, aventi la sezione minima richiesta dalla tabella 54F dell'art. 543.1 della Norma CEI 64-8, che di seguito riportiamo:

SEZIONE DEL CONDUTTORE DI FASE S (mmq)	SEZIONE MINIMA DEL CONDUTTORE DI PROTEZIONE S_p (mmq)
$S \leq 16$	$S_p = S$
$16 < S \leq 35$	$S_p = 16$
$S > 35$	$S_p = S/2$

D04 PROTEZIONE DELLE LINEE



I conduttori verranno protetti dalle sovracorrenti, dai cortocircuiti, in ottemperanza alle Norme CEI 64-8, mediante interruttori automatici magnetotermici, scelti con una corrente nominale di impiego (I_n) compresa fra la corrente di impiego dei conduttori (I_b) e la loro massima portata (I_z).

In tutti i casi saranno rispettate le seguenti relazioni:

$$I_b < I_n < I_z$$

$$I_f < 1.45 I_z$$

dove:

I_b = corrente di impiego del conduttore;

I_n = corrente nominale del dispositivo di protezione;

I_z = corrente massima di portata del conduttore;

I_f = corrente convenzionale di funzionamento;

D05 RESISTENZA DI ISOLAMENTO

Per tutte le parti di impianto comprese fra due fusibili o interruttori automatici successivi o poste a valle dell'ultimo fusibile o interruttore automatico, la resistenza di isolamento verso terra o fra conduttori appartenenti a fasi o polarità diverse non sarà inferiore a:

- 500.000 ohm per i sistemi con tensione nominale superiore a 50V e fino a 500V compresi.

D06 PROTEZIONE CONTRO LE SOVRATENSIONI

Al fine di proteggere le apparecchiature elettroniche all'interno delle armature stradali (alimentatore, LED, ecc.), vengono previsti SPD (scaricatori di sovratensioni) integrati nelle armature stesse (in classe 1° di isolamento), i quali verranno collegati all'impianto disperdente di terra, realizzato come indicato nelle tavole di progetto.



SEZIONE E - DESCRIZIONE DELLE OPERE PREVISTE

E01 IMPIANTO DI PUBBLICA ILLUMINAZIONE IN VIA BARADELLO

L'intervento prevede la realizzazione dell'impianto di illuminazione pubblica lungo Via Baradello, il tutto come identificato nelle tavole di progetto.

Saranno quindi realizzate le seguenti opere:

1. esecuzione delle opere interrato di scavo, posa delle canalizzazioni, posa del dispersore in corda di rame nuda da 35mmq, posa dei pozzetti e dei plinti di sostegno e successiva chiusura e sistemazione, come indicato negli elaborati di progetto;
2. fornitura e posa dei cavi di alimentazione derivati dal punto luce esistente;
3. fornitura e posa in opera di complessi di illuminazione stradali, composti da palo conico zincato, con altezza fuori terra di 8m, ed apparecchio di illuminazione a LED (luce bianca) ad alta efficienza dotati di dispositivo di regolazione automatica del flusso luminoso.

E02 IMPIANTO DI PUBBLICA ILLUMINAZIONE IN VIA GRASSEHELLA

L'intervento prevede la realizzazione dell'impianto di illuminazione pubblica lungo Via Grasseghella, il tutto come identificato nelle tavole di progetto.

Saranno quindi realizzate le seguenti opere:

1. esecuzione delle opere interrato di scavo, posa delle canalizzazioni, posa del dispersore in corda di rame nuda da 35mmq, posa dei pozzetti e dei plinti di sostegno e successiva chiusura e sistemazione, come indicato negli elaborati di progetto;
2. posa della nuova nicchia in calcestruzzo al servizio del contatore ENEL e del quadro elettrico;
3. realizzazione del nuovo quadro elettrico di comando e protezione dell'impianto di pubblica illuminazione;
4. fornitura e posa dei cavi di alimentazione derivati dal quadro elettrico e dal punto luce esistente;
5. fornitura e posa in opera di complessi di illuminazione stradali, composti da palo conico zincato, con altezza fuori terra di 8m, ed apparecchio di illuminazione a LED (luce bianca) ad alta efficienza dotati di dispositivo di regolazione automatica del flusso luminoso.



ALLEGATI

- Scheda tecnica e documentazione relativa alle misurazioni fotometriche degli apparecchi utilizzati in forma tabellare numerica

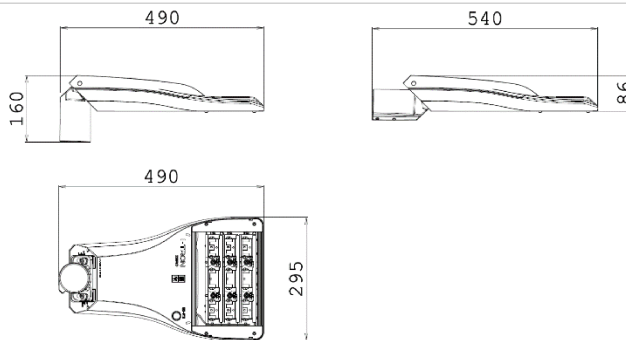
Fontanelle, Giugno 2023

IL TECNICO
Per. Ind. Simone Cescon

RIEPILOGO DEGLI ALLEGATI

- 1) Scheda tecnica e documento relativo alle misurazioni fotometriche in forma tabellare numerica dell'apparecchio di illuminazione AEC I-TRON Zero 228 STU-S 4.50-2M VEX**

**SCHEDA TECNICA E MISURE
FOTOMETRICHE APPARECCHIO
AEC I-TRON Zero 2Z8 STU-S 4.50-2M VEX**

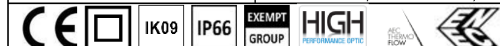


I-TRON ZERO

I-TRON ZERO

CARATTERISTICHE PRINCIPALI

Applicazioni	illuminazione stradale.
Gruppo ottico	<p>STU-S: Ottica asimmetrica per illuminazione stradale, urbana e ciclopedonale (emissione stretta).</p> <p>STU-M: Ottica asimmetrica per illuminazione stradale, urbana e ciclopedonale (emissione media).</p> <p>STU-W: Ottica asimmetrica per illuminazione di strade larghe urbane e extraurbane.</p> <p>S03: Ottica asimmetrica per illuminazione di strade larghe urbane e extraurbane.</p> <p>Temperatura di colore: 4000K (3000K in opzione) CRI ≥ 70</p> <p>LOR= 100%, DLOR= 100%, ULOR= 0%</p> <p>Classe di sicurezza fotobiologica: EXEMPT GROUP</p> <p>Efficienza sorgente LED: 174 lm/W @ 400mA, Tj=85°C, 4000K</p>
Classe di isolamento	II, I
Grado di protezione	IP66 IK09 totale
Moduli LED	Gruppo ottico rimovibile
Inclinazione	Testa palo: 0°, +5°, +10°, +15°, +20° Braccio: +5°, 0°, -5°, -10°, -15°, -20°
Dimensioni	Vedere disegno
Peso	max. 4.5 kg
Superficie esposta	Laterale: 0.03m ² – Pianta: 0.11m ²
Montaggio	Braccio o testa palo Ø60mm Ø32 / Ø42 / Ø48 / Ø76mm (in opzione)
Cablaggio	Rimovibile. Vano cablaggio integrato nell'apparecchio, separato dal gruppo ottico. Piastra cablaggio estraibile opzionale.
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



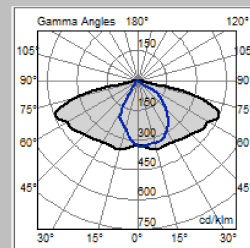
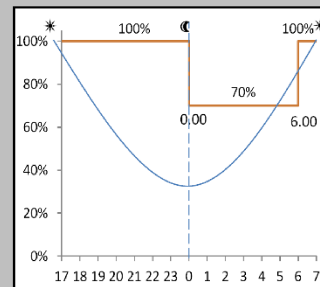
CARATTERISTICHE ELETTRICHE

Alimentazione	220÷240V 50/60Hz
Fattore di potenza	>0,95 (a pieno carico – F, DA, DAC)
Connessione rete	Per cavi sezione max. 4mm ²
Protezz. sovratensioni	Fino a 10kV Con scaricatore 10kV / 10kV CM / DM
SPD (Opzionale)	10kV-10kA, type II, completo di LED di segnalazione e termofusibile per disconnessione del carico a fine vita.
Sistema di controllo (opzioni)	<p>F: Fisso non dimmerabile.</p> <p>DA: Dimmerazione automatica (mezzanotte virtuale) con profilo di default.</p> <p>DAC: Profilo DA custom.</p> <p>FLC: Flusso luminoso costante.</p> <p>WL: Telecomando punto/punto ad onde radio.</p> <p>DALI: Interfaccia di dimmerazione digitale DALI.</p> <p>NEMA: Presa 7 pin (ANSI C136.41).</p> <p>ZHAGA: Presa 4 pin (ZHAGA Book 18).</p>
Vita sorgente LED (Tq=25°C, 500mA)	>100.000hr L90B10 >100.000hr L90, TM21

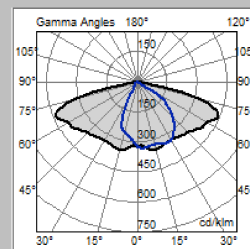
MATERIALI

Attacco	Alluminio pressofuso UNI EN1706. Verniciato a polveri.
Telaio	
Copertura	
Chiusura	Viti imperdibili in acciaio inox.
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 M20x1.5mm - IP68
Guarnizione	Poliuretana
Colore	RAL 7016 opaco satinato - Cod. 30

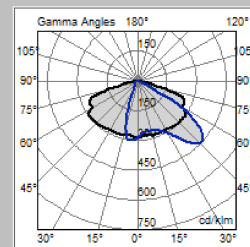
Profilo DA



Ottica STU-S



Ottica STU-M



Ottica S03

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





DICHIARAZIONE DI CONFORMITÀ



AEC ILLUMINAZIONE S.r.l.



Il seguente costruttore

Costruttore: **AEC ILLUMINAZIONE S.r.l.**

Indirizzo: Via A. Righi, 4 - Zona industriale Castelnuovo
52010 Subbiano (AR) - Italia

dichiara qui di seguito che il prodotto

I-TRON Zero 2Z8 STU-S 4.50-2M VEX

apparecchio di illuminazione per l'installazione fissa

presenta caratteristiche fotometriche conformi a quanto previsto dalla seguente legge

Regione Veneto - Legge Regionale n° 17 del 7 agosto 2009

Subbiano, 17/11/2020

AEC ILLUMINAZIONE S.r.l.

Photometric Test Report



Costruttore	AEC ILLUMINAZIONE SRL
Tipo di prodotto	Outdoor Lighting Luminaire
Codice fotometria	I-TRON Zero 2Z8 STU-S 4.50-2M VEX
Codice apparecchio	I-TRON Zero 2Z8 STU-S 4.50-2M VEX
Rilievo fotometrico	20-187_0920
Descrizione apparecchio	I-TRON Zero 2Z8 STU-S 4.50-2M VEX
Data emissione	06-11-2020

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	Rettangolare		
Dimensioni apparecchio (mm)	Lunghezza / Diametro	Larghezza	Altezza
	540	295	110
Dimensioni area luminosa (mm)	Lunghezza / Diametro	Larghezza	Altezza C0
	120	220	0
	Altezza C90	Altezza C180	Altezza C270
	0	0	0
Tipo sorgente	LED		
Modello sorgente	Luxeon 5050s		
Tipo Alimentatore	Elettronico / Electronic		
Modello Alimentatore	Philips Xi		

NORMATIVE DI RIFERIMENTO

Normative di riferimento	UNI EN 13032-1:2012 UNI EN 13032-4:2015
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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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
	Umidità relativa (°RH)	< 60
	Movimento aria (m/s)	< 0.2
Condizioni Elettriche	Tensione di alimentazione (V)	230
	Frequenza di alimentazione (Hz)	50
	Distorsione armonica THD V (%)	< 0.5%
Condizioni Preliminari Prova	Metodo di misura	Goniofotometro
	Sistema di riferimento misura	Sistema C-γ (Gonio)
	Posizione di misura	Verticale (Gonio)
	Distanza di misura (m)	9.03
	Tempo di stabilizzazione (min)	> 60
	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)	7130
Potenza ingresso apparecchio (W)	51.5
Efficienza apparecchio (lm/W)	138
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
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%
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 I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Codice 20-187_0920	Codice L-ITR-2Z8-4000-500-2M-70-25
Nome I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Nome I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Numero 1
Archivio Eulumdat	Data 06-11-2020	Posizione

Flusso Apparecchio	7130.00 lm	Potenza Apparecchio	51.50 W	Efficacia	138.45 lm/W	Rendimento	100.00%
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Flusso Lampade	7130.00 lm	Valore Massimo	513.85 cd/klm	Posizione	C=10.00 G=67.00	CG	Asimmetrico
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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	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48
G 1.0	327.25	326.98	327.18	327.88	327.73	329.75	326.75	328.37	329.29	327.94	329.00	328.24	329.42
G 2.0	328.55	328.42	328.47	330.12	330.28	332.12	329.88	330.11	331.26	329.80	330.81	329.85	330.73
G 3.0	329.79	330.42	330.26	331.81	332.33	332.57	333.41	332.45	332.52	332.11	332.42	332.21	331.99
G 4.0	330.77	331.61	331.49	333.15	334.07	334.08	335.34	334.00	334.08	333.22	333.68	333.61	333.05
G 5.0	332.44	333.35	333.16	335.09	335.46	335.58	335.92	335.19	335.59	334.48	334.88	334.36	334.16
G 6.0	334.46	336.04	335.47	337.87	337.89	337.54	337.48	336.64	337.00	334.93	335.38	334.71	334.37
G 7.0	337.10	338.98	338.24	341.06	341.13	340.40	340.27	338.43	338.24	335.69	335.38	334.66	334.41
G 8.0	339.86	342.02	341.71	344.40	344.28	343.27	343.30	340.87	339.74	336.95	335.98	334.40	333.80
G 9.0	343.16	345.91	345.59	348.13	347.68	346.29	345.94	343.26	341.86	338.66	337.03	334.53	333.24
G 10.0	346.98	349.64	349.26	351.87	351.68	349.96	348.84	345.70	344.44	340.67	338.23	335.02	333.03
G 11.0	350.36	353.33	352.99	355.56	355.28	352.98	352.32	348.69	346.72	342.08	339.43	336.02	333.28
G 12.0	353.24	356.47	356.47	359.00	358.78	356.05	355.61	351.28	348.74	344.14	340.79	337.02	333.93
G 13.0	355.41	358.67	359.11	361.59	361.64	358.87	358.37	354.11	350.86	346.00	342.45	338.37	334.68
G 14.0	356.87	360.46	361.25	363.58	363.84	361.09	360.28	356.55	353.75	348.32	344.31	340.12	336.34
G 15.0	357.63	361.26	362.20	364.58	365.39	362.85	362.53	358.59	356.33	351.03	346.57	342.63	338.36
G 16.0	358.24	362.56	363.64	365.87	366.44	363.55	364.17	360.53	358.26	353.65	349.38	345.08	340.37
G 17.0	358.29	362.51	364.48	366.67	367.59	364.71	365.06	361.68	360.03	355.91	351.84	348.03	342.79
G 18.0	357.67	362.16	364.47	366.82	368.09	365.31	366.00	363.12	362.00	358.52	354.81	351.03	345.56
G 19.0	356.95	361.61	364.27	366.42	368.18	365.76	367.49	364.82	363.71	360.89	357.67	354.04	348.34
G 20.0	356.08	361.11	363.71	366.02	367.73	365.46	368.26	366.66	365.73	362.85	360.54	356.79	350.91
G 21.0	354.81	360.71	363.50	365.61	367.47	365.66	368.34	367.66	368.21	365.06	362.75	359.40	353.48
G 22.0	354.14	360.56	363.34	365.31	367.71	365.75	368.77	368.95	369.82	367.73	365.06	361.50	355.50
G 23.0	353.52	360.36	363.58	365.56	368.05	366.25	369.83	370.05	371.38	369.74	367.12	363.45	357.46
G 24.0	353.15	360.80	363.82	365.80	368.24	367.16	370.96	371.54	372.63	371.35	369.07	364.85	358.52
G 25.0	353.24	361.35	364.26	366.50	368.78	368.01	372.08	373.29	373.99	372.36	370.73	365.30	359.13
G 26.0	353.48	362.05	365.29	367.44	370.13	369.51	373.75	374.93	375.50	373.27	371.53	365.70	359.23
G 27.0	354.16	363.04	366.77	368.83	371.62	371.27	375.87	376.57	376.60	373.87	371.93	365.85	358.52
G 28.0	355.05	364.54	368.41	371.12	373.66	373.83	377.99	377.97	377.81	374.33	371.48	364.94	356.85
G 29.0	355.95	366.23	369.89	372.82	375.91	376.40	380.08	379.56	378.56	374.03	370.72	363.29	355.34
G 30.0	357.19	368.52	372.41	375.65	378.70	379.57	383.05	381.60	379.21	373.73	369.51	361.08	353.17
G 31.0	358.43	370.41	374.84	378.09	381.74	382.89	386.03	383.20	379.76	373.02	367.70	358.42	350.40
G 32.0	359.92	372.46	377.46	380.88	384.99	386.10	388.91	384.84	379.76	371.77	365.69	354.86	347.32
G 33.0	361.42	374.50	380.03	383.56	388.08	389.17	391.45	386.43	380.16	370.36	363.27	351.26	343.69
G 34.0	363.16	377.09	382.86	386.65	391.22	392.64	393.88	387.63	379.91	368.50	360.51	347.35	339.55
G 35.0	364.81	379.23	385.49	389.84	395.12	396.01	396.31	388.27	379.50	366.54	357.09	343.19	334.81
G 36.0	366.60	381.62	388.21	392.82	398.11	399.03	398.25	388.52	378.59	364.22	353.67	338.63	330.17
G 37.0	368.05	383.76	390.79	395.81	401.86	402.05	400.14	388.62	377.23	361.96	350.00	334.12	325.23
G 38.0	369.95	386.20	393.12	398.95	404.75	404.56	401.68	388.17	375.76	358.54	346.13	329.01	319.53
G 39.0	371.50	388.35	395.65	401.74	407.80	407.08	402.73	387.53	373.43	355.78	341.81	323.70	313.88
G 40.0	372.75	390.59	397.93	404.68	410.55	408.94	403.53	386.23	371.06	351.95	337.54	318.09	307.67
G 41.0	374.35	392.63	400.17	407.22	413.50	411.00	403.88	385.09	368.53	348.33	333.17	312.48	301.47
G 42.0	376.05	394.92	402.80	410.00	415.89	412.51	403.94	383.04	365.34	344.31	327.99	306.22	294.71
G 43.0	377.95	397.41	405.62	413.09	418.64	413.97	403.50	380.90	362.11	340.13	322.62	299.76	287.79
G 44.0	379.60	400.06	408.35	416.33	421.29	415.08	403.20	378.46	358.82	335.51	316.74	293.21	280.38
G 45.0	381.71	403.24	411.37	419.91	423.93	416.53	402.07	375.78	354.78	330.13	310.51	286.19	272.56
G 46.0	383.71	406.38	414.69	423.45	426.43	417.24	400.87	373.19	350.79	324.80	304.03	279.14	264.84
G 47.0	385.86	409.52	418.36	427.38	429.52	418.34	399.63	369.95	346.29	319.16	297.14	271.47	256.67
G 48.0	388.46	413.36	422.22	431.61	432.36	419.45	398.38	366.72	341.54	313.13	290.21	263.31	248.09
G 49.0	391.26	417.34	426.43	436.59	435.55	420.50	396.69	362.88	336.04	306.44	282.17	255.05	239.22
G 50.0	394.66	421.38	431.08	441.61	438.93	421.70	395.09	359.45	330.63	299.75	274.23	246.89	230.99
G 51.0	398.50	426.16	436.62	447.63	442.32	422.76	393.19	355.07	324.78	292.26	265.84	238.23	222.42
G 52.0	402.70	432.23	443.39	454.30	446.16	423.46	390.64	350.69	318.11	284.26	257.00	229.52	213.59
G 53.0	406.79	438.31	450.97	461.61	450.24	423.96	388.30	345.41	311.24	275.76	247.91	220.65	204.81
G 54.0	410.10	443.89	458.54	468.88	454.23	424.96	385.56	339.94	304.07	267.36	239.01	212.14	196.69
G 55.0	412.52	448.48	464.89	475.85	458.32	425.82	382.12	333.81	295.99	258.16	229.67	203.28	188.32
G 56.0	412.77	451.76	470.40	481.13	462.06	427.12	378.74	327.19	287.41	248.75	220.37	194.57	179.99
G 57.0	410.92	452.86	473.58	484.32	463.37	426.92	374.72	319.77	278.62	238.84	210.83	185.70	171.82
G 58.0	409.26	453.50	475.30	485.37	463.38	424.07	369.91	312.40	269.28	229.19	201.43	177.04	164.05
G 59.0	409.53	455.69	476.47	485.32	461.14	418.99	362.75	303.64	259.49	218.83	191.44	168.23	155.88
G 60.0	412.77	460.22	479.91	486.10	458.50	411.95	353.49	293.73	249.09	208.21	181.64	159.37	147.81
G 61.0	419.11	467.99	485.34	489.29	455.54	404.06	342.14	282.33	238.09	197.60	171.79	150.70	139.79
G 62.0	426.20	476.16	492.74	492.88	455.24	396.21	330.55	269.38	226.48	187.09	162.30	141.99	130.77
G 63.0	432.77	484.49	500.72	497.77	454.74	389.06	316.59	253.80	212.81	175.82	152.30	131.88	110.42
G 64.0	438.69	491.03	507.11	501.42	453.72	381.47	302.89	236.67	198.38	164.31	142.00	112.30	80.60
G 65.0	443.23	494.97	512.09	503.68	452.50	373.13	288.44	219.74	183.89	152.64	128.54	82.96	50.82
G 66.0	445.13	496.12	513.74	504.44	449.60	364.09	275.09	204.11	170.29	141.02	105.80	54.70	29.80
G 67.0	445.49	495.14	513.85	502.12	443.75	353.69	260.44	188.08	156.55	122.45	75.85	33.12	22.21
G 68.0	442.75	490.81	509.81	496.72	435.85	340.88	246.42	172.30	141.50	95.60	48.80	24.67	18.98
G 69.0	437.20	483.65	502.44	487.77	425.01	326.36	231.50	157.57	118.26	68.05	33.14	20.60	16.20
G 70.0	428.78	474.54	492.38	476.59	412.17	310.98	216.68	143.87	92.79	46.19	26.75	17.24	13.93
G 71.0	413.70	458.35	478.01	462.26	395.77	293.59	200.46	125.25	69.46	34.23	21.47	14.44	12.01
G 72.0	391.34	434.15	455.53	438.54	375.64	274.69	183.68	102.85	52.97	27.44	17.40	12	

Apparecchio			Rilievo			Lampada			
Codice	I-TRON Zero 2Z8 STU-S 4.50-2M VEX		Codice	20-187_0920		Codice	L-I-TR-2Z8-4000-500-2M-70-25		
Nome	I-TRON Zero 2Z8 STU-S 4.50-2M VEX		Nome	I-TRON Zero 2Z8 STU-S 4.50-2M VEX		Numero	1		
Archivio	Eulumdat		Data	06-11-2020		Posizione			

Flusso Apparecchio	7130.00 lm	Potenza Apparecchio	51.50 W	Efficacia	138.45 lm/W	Rendimento	100.00%	
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Flusso Lampade	7130.00 lm	Valore Massimo	513.85 cd/klm	Posizione	C=10.00 G=67.00	CG Asimmetrico		
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	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	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48
G 1.0	328.63	328.62	329.24	329.25	328.54	328.79	328.54	329.25	329.24	328.62	328.63	329.42	328.24
G 2.0	330.44	331.06	331.46	330.81	330.24	330.60	330.24	330.81	331.46	331.06	330.44	330.73	329.85
G 3.0	332.20	332.18	331.96	331.62	330.90	331.20	330.90	331.62	331.96	332.18	332.20	331.99	332.21
G 4.0	333.15	332.59	332.36	332.53	331.15	331.50	331.15	332.53	332.36	332.59	333.15	333.05	333.61
G 5.0	333.80	332.95	332.46	332.32	330.69	330.80	330.69	332.32	332.46	332.95	333.80	334.16	334.36
G 6.0	333.70	333.51	332.11	331.92	330.04	330.10	330.04	331.92	332.11	333.51	333.70	334.37	334.71
G 7.0	333.65	332.90	331.61	331.32	329.09	329.09	329.09	331.32	331.61	332.90	333.65	334.41	334.66
G 8.0	333.40	332.03	331.15	330.86	328.23	328.09	328.23	330.86	331.15	332.03	333.40	333.80	334.40
G 9.0	332.50	331.72	330.55	329.80	326.93	326.98	326.93	329.80	330.55	331.72	332.50	333.24	334.53
G 10.0	331.90	331.16	329.85	329.20	325.97	325.78	325.97	329.20	329.85	331.16	331.90	333.03	335.02
G 11.0	331.55	330.50	329.44	329.00	325.37	324.97	325.37	329.00	329.44	330.50	331.55	333.28	336.02
G 12.0	331.70	329.99	329.24	328.69	324.92	324.37	324.92	328.69	329.24	329.99	331.70	333.93	337.02
G 13.0	332.36	330.14	329.39	328.59	324.82	324.07	324.82	328.59	329.39	330.14	332.36	334.68	338.37
G 14.0	333.56	330.65	329.55	329.00	325.07	324.47	325.07	329.00	329.55	330.65	333.56	336.34	340.12
G 15.0	335.17	331.41	329.85	329.50	325.37	324.67	325.37	329.50	329.85	331.41	335.17	338.36	342.63
G 16.0	337.23	332.83	330.61	330.16	325.72	324.77	325.72	330.16	330.61	332.83	337.23	340.37	345.08
G 17.0	339.09	334.41	331.61	330.81	326.02	324.97	326.02	330.81	331.61	334.41	339.09	342.79	348.03
G 18.0	341.50	336.34	332.32	331.47	326.17	324.97	326.17	331.47	332.32	336.34	341.50	345.56	351.03
G 19.0	343.36	337.71	332.98	331.67	325.92	324.37	325.92	331.67	332.98	337.71	343.36	348.34	354.04
G 20.0	345.72	339.09	333.43	331.37	325.12	323.67	325.12	331.37	333.43	339.09	345.72	350.91	356.79
G 21.0	347.37	340.16	333.63	330.81	324.12	322.56	324.12	330.81	333.63	340.16	347.37	353.48	359.40
G 22.0	348.98	340.77	333.59	329.81	322.46	320.55	322.46	329.81	333.59	340.77	348.98	355.50	361.50
G 23.0	349.98	341.02	332.73	329.99	320.10	318.34	320.10	327.99	332.73	341.02	349.98	357.46	363.45
G 24.0	350.54	340.87	331.58	326.03	317.79	315.83	317.79	326.03	331.58	340.87	350.54	358.52	364.85
G 25.0	350.59	340.10	330.12	323.81	314.93	312.81	314.93	323.81	330.12	340.10	350.59	359.13	365.30
G 26.0	350.39	338.83	328.06	320.99	311.56	309.30	311.56	320.99	328.06	338.83	350.39	359.23	365.70
G 27.0	349.63	337.66	325.24	317.66	307.70	305.48	307.70	317.66	325.24	337.66	349.63	358.52	365.85
G 28.0	347.88	335.42	322.37	314.19	303.73	301.46	303.73	314.19	322.37	335.42	347.88	356.85	364.94
G 29.0	345.67	332.72	319.36	310.46	299.81	297.04	299.81	310.46	319.36	332.72	345.67	355.34	363.29
G 30.0	342.86	329.92	315.79	306.63	295.29	292.72	295.29	306.63	315.79	329.92	342.86	353.17	361.08
G 31.0	339.65	326.66	312.01	302.50	290.77	288.40	290.77	302.50	312.01	326.66	339.65	350.40	358.42
G 32.0	335.93	323.51	308.34	298.11	286.31	283.67	286.31	298.11	308.34	323.51	335.93	347.32	354.86
G 33.0	332.22	319.84	304.52	293.68	281.84	278.95	281.84	293.68	304.52	319.84	332.22	343.69	351.26
G 34.0	328.25	315.57	300.34	289.09	276.76	273.93	276.76	289.09	300.34	315.57	328.25	339.55	347.35
G 35.0	323.74	311.44	295.86	284.25	271.54	268.80	271.54	284.25	295.86	311.44	323.74	334.81	343.19
G 36.0	318.92	306.71	291.08	279.16	266.17	263.27	266.17	279.16	291.08	306.71	318.92	330.17	338.63
G 37.0	314.00	301.78	286.00	274.07	260.64	258.15	260.64	274.07	286.00	301.78	314.00	325.23	334.12
G 38.0	308.23	296.08	280.97	268.53	254.77	252.22	254.77	268.53	280.97	296.08	308.23	319.53	329.01
G 39.0	302.35	290.12	275.18	262.83	248.69	246.29	248.69	262.83	275.18	290.12	302.35	313.88	323.70
G 40.0	295.73	283.76	269.49	256.74	242.52	239.86	242.52	256.74	269.49	283.76	295.73	307.67	318.09
G 41.0	289.41	277.60	263.55	250.69	236.04	233.83	236.04	250.69	263.55	277.60	289.41	301.47	312.48
G 42.0	281.98	270.73	257.01	243.88	229.31	227.10	229.31	243.88	257.01	270.73	281.98	294.71	306.22
G 43.0	274.45	263.35	250.17	236.88	222.33	220.06	222.33	236.88	250.17	263.35	274.45	287.79	299.76
G 44.0	266.37	255.67	242.82	229.72	215.15	213.13	215.15	229.72	242.82	255.67	266.37	280.38	293.21
G 45.0	258.09	247.68	235.27	222.51	208.02	205.70	208.02	222.51	235.27	247.68	258.09	272.56	286.19
G 46.0	249.81	239.99	227.83	215.46	200.89	198.96	200.89	215.46	227.83	239.99	249.81	264.84	279.14
G 47.0	241.08	231.64	220.18	208.20	193.81	191.93	193.81	208.20	220.18	231.64	241.08	256.67	271.47
G 48.0	232.45	223.50	212.63	201.09	186.62	184.99	186.62	201.09	212.63	223.50	232.45	248.09	263.31
G 49.0	223.81	215.31	205.18	193.79	179.80	177.66	179.80	193.79	205.18	215.31	223.81	239.22	255.05
G 50.0	215.48	207.37	198.14	187.08	173.01	171.13	173.01	187.08	198.14	207.37	215.48	230.99	246.89
G 51.0	206.95	199.43	190.79	180.18	166.39	164.40	166.39	180.18	190.79	199.43	206.95	222.42	238.23
G 52.0	198.32	191.43	183.65	173.37	159.71	157.66	159.71	173.37	183.65	191.43	198.32	213.59	229.52
G 53.0	189.94	183.49	176.60	166.77	153.28	151.23	153.28	166.77	176.60	183.49	189.94	204.81	220.65
G 54.0	182.06	176.16	170.11	160.62	147.30	145.30	147.30	160.62	176.16	170.11	182.06	196.69	212.14
G 55.0	174.03	168.53	162.97	154.32	141.13	139.27	141.13	154.32	162.97	168.53	174.03	188.32	203.28
G 56.0	166.30	161.05	156.17	147.97	134.90	133.14	134.90	147.97	156.17	161.05	166.30	179.99	194.57
G 57.0	158.57	153.77	149.23	141.42	128.62	127.22	128.62	141.42	149.23	153.77	158.57	171.82	185.70
G 58.0	151.15	146.80	142.64	135.32	122.65	121.29	122.65	135.32	142.64	146.80	151.15	164.05	177.04
G 59.0	143.57	139.52	135.24	127.36	110.89	111.04	110.89	127.36	135.24	139.52	143.57	155.88	168.23
G 60.0	135.94	131.17	118.03	106.04	86.02	87.12	86.02	106.04	118.03	131.17	135.94	147.81	159.37
G 61.0	125.40	111.48	87.53	76.05	57.85	59.39	57.85	76.05	87.53	111.48	125.40	139.79	150.70
G 62.0	102.40	82.32	57.50	47.42	32.69	34.17	32.69	47.42	57.50	82.32	102.40	130.77	141.99
G 63.0	71.74	52.08	29.78	23.23	17.03	17.18	17.03	23.23	29.78	52.08	71.74	110.42	131.88
G 64.0	42.74	27.54	18.47	16.53	14.21	13.87	14.21	16.53	18.47	27.54	42.74	80.60	112.30
G 65.0	23.98	19.29	16.20	14.72	12.76	12.46	12.76	14.72	16.20	19.29	23.98	50.82	82.96
G 66.0	19.67	16.95	14.49	13.26	11.65	11.35	11.65	13.26	14.49	16.95	19.67	29.80	54.70
G 67.0	17.06	14.96	12.93	12.00	10.60	10.25	10.60	12.00	12.93	14.96	17.06	22.21	33.12
G 68.0	14.85	13.23	11.52	10.74	9.54	9.35	9.54	10.74	11.52	13.23	14.85	18.98	24.67
G 69.0	13.00	11.71	10.36	9.78	8.64	8.54	8.64	9.78	10.36	11.71	13.00	16.20	20.60
G 70.0	11.44	10.54	9.36	8.82	7.89	7.64	7.89	8.82	9.36	10.54	11.44	13.93	17.24
G 71.0	10.09	9.31	8.40	7.91	7.13	7.03	7.13	7.91	8.40	9.31	10.09	12.01	14.44
G 72.0	8.98	8.35	7.55	7.26	6.48	6.33	6.48	7.26	7.55	8.35	8.98	10.40	12.18

Apparecchio	Rilievo	Lampada
Codice I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Codice 20-187_0920	Codice L-I-TR-2Z8-4000-500-2M-70-25
Nome I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Nome I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Numero 1
Archivio Eulumatd	Data 06-11-2020	Posizione

Flusso Apparecchio	7130.00 lm	Potenza Apparecchio	51.50 W	Efficacia	138.45 lm/W	Rendimento	100.00%
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Flusso Lampade	7130.00 lm	Valore Massimo	513.85 cd/klm	Posizione	C=10.00 G=67.00	CG	Asimmetrico
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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	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48
G 1.0	329.00	327.94	329.29	328.37	326.75	329.75	327.73	327.88	327.18	326.98	327.25	327.34	326.73
G 2.0	330.81	329.80	331.26	330.11	329.88	332.12	330.28	330.12	328.47	328.42	328.55	328.64	327.42
G 3.0	332.42	332.11	332.52	332.45	333.41	332.57	332.33	331.81	330.26	330.42	329.79	329.39	328.16
G 4.0	333.68	333.22	334.08	334.00	335.34	334.08	334.07	333.15	331.49	331.61	330.77	329.93	328.69
G 5.0	334.88	334.48	335.59	335.19	335.92	335.58	335.46	335.09	333.16	333.35	332.44	331.31	329.62
G 6.0	335.38	334.93	337.00	336.64	337.48	337.54	337.89	337.87	335.47	336.04	334.46	333.15	330.85
G 7.0	335.38	335.69	338.24	338.43	340.27	340.40	341.13	341.06	338.24	338.98	337.10	335.50	333.02
G 8.0	335.98	336.95	339.74	340.87	343.30	343.27	344.28	344.40	341.71	342.02	339.86	338.21	334.94
G 9.0	337.03	338.66	341.86	343.26	345.94	346.29	347.68	348.13	345.59	345.91	343.16	341.37	337.67
G 10.0	338.23	340.67	344.44	345.70	348.84	349.96	351.68	351.87	349.26	349.64	346.98	344.39	339.89
G 11.0	339.43	342.08	346.72	348.69	352.32	352.98	355.28	355.56	352.99	353.33	350.36	347.51	342.42
G 12.0	340.79	344.14	348.74	351.28	355.61	356.05	358.78	359.00	356.47	356.47	353.24	349.93	344.55
G 13.0	342.45	346.00	350.86	354.11	358.37	358.87	361.64	361.59	359.11	358.67	355.41	351.65	346.14
G 14.0	344.31	348.32	353.75	356.55	360.28	361.09	363.84	363.58	361.25	360.46	356.87	352.60	346.39
G 15.0	346.57	351.03	356.33	358.59	362.53	362.85	365.39	364.58	362.20	361.26	357.63	353.11	346.34
G 16.0	349.38	353.65	358.26	360.53	364.17	363.55	366.44	365.87	363.64	362.56	358.24	353.31	345.95
G 17.0	351.84	355.91	360.03	361.68	365.06	364.71	367.59	366.67	364.48	362.51	358.29	353.16	345.26
G 18.0	354.81	358.52	362.00	363.12	366.00	365.31	368.09	366.82	364.47	362.16	357.67	351.75	343.52
G 19.0	357.67	360.89	363.71	364.82	367.49	365.76	368.18	366.42	364.27	361.61	356.95	350.33	341.59
G 20.0	360.54	362.85	365.73	366.66	368.26	365.46	367.73	366.02	363.71	361.11	356.08	349.12	339.46
G 21.0	362.75	365.06	368.21	367.66	368.34	365.66	367.47	365.61	363.50	360.71	354.81	347.45	337.13
G 22.0	365.06	367.73	369.82	368.95	368.77	365.75	367.71	365.31	363.34	360.56	354.14	346.24	334.95
G 23.0	367.12	369.74	371.38	370.05	369.83	366.25	368.05	365.56	363.58	360.36	353.52	344.88	332.91
G 24.0	369.07	371.35	372.63	371.54	370.96	367.16	368.24	365.80	363.82	360.80	353.15	343.91	330.78
G 25.0	370.73	372.36	373.99	373.29	372.08	368.01	368.78	366.50	364.26	361.35	353.24	343.56	329.10
G 26.0	371.53	373.27	375.50	374.93	373.75	369.51	370.13	367.44	365.29	362.05	353.48	342.95	327.61
G 27.0	371.93	373.87	376.60	376.57	375.87	371.27	371.62	368.83	366.77	363.04	354.16	342.59	326.52
G 28.0	371.48	374.33	377.81	377.97	377.99	373.83	373.66	371.12	368.41	364.54	355.05	342.89	325.13
G 29.0	370.72	374.03	378.56	379.56	380.08	376.40	375.91	372.82	369.89	366.23	355.95	342.98	324.19
G 30.0	369.51	373.73	379.21	381.60	383.05	379.57	378.70	375.65	372.41	368.52	357.19	343.43	323.29
G 31.0	367.70	373.02	379.76	383.20	386.03	382.89	381.74	378.09	374.84	370.41	358.43	343.82	322.35
G 32.0	365.69	371.77	379.76	384.84	388.91	386.10	384.99	380.88	377.46	372.46	359.92	344.32	321.46
G 33.0	363.27	370.36	380.16	386.43	391.45	389.17	388.08	383.56	380.03	374.50	361.42	345.07	320.76
G 34.0	360.51	368.50	379.91	387.63	393.88	392.64	391.22	386.65	382.86	377.09	363.16	345.71	319.92
G 35.0	357.09	366.54	379.50	388.27	396.31	396.01	395.12	389.84	385.49	379.23	364.81	346.31	319.17
G 36.0	353.67	364.22	378.59	388.52	398.25	399.03	398.11	392.82	388.21	381.62	366.60	347.16	318.13
G 37.0	350.00	361.96	377.23	388.62	400.14	402.05	401.86	395.81	390.79	383.76	368.05	347.91	317.09
G 38.0	346.13	358.54	375.76	388.17	401.68	404.56	404.75	398.95	393.12	386.20	369.95	348.41	316.00
G 39.0	341.81	355.78	373.43	387.53	402.73	407.08	407.80	401.74	395.65	388.35	371.50	349.01	314.71
G 40.0	337.54	351.95	371.06	386.23	403.53	408.94	410.55	404.68	397.93	390.59	372.75	349.66	313.37
G 41.0	333.17	348.33	368.53	385.09	403.88	411.00	413.50	407.22	400.17	392.63	374.35	350.26	312.04
G 42.0	327.99	344.31	365.34	383.04	403.94	412.51	415.89	410.00	402.80	394.92	376.05	350.86	310.65
G 43.0	322.62	340.13	362.11	380.90	403.50	413.97	418.64	413.09	405.62	397.41	377.95	351.36	309.46
G 44.0	316.74	335.51	358.82	378.46	403.20	415.08	421.29	416.33	408.35	400.06	379.60	352.01	308.23
G 45.0	310.51	330.13	354.78	375.78	402.07	416.53	423.93	419.91	411.37	403.24	381.71	352.66	306.94
G 46.0	304.03	324.80	350.79	373.19	400.87	417.24	426.43	423.45	414.69	406.38	383.71	353.31	305.66
G 47.0	297.14	319.16	346.29	369.95	399.63	418.34	429.52	427.38	418.36	409.52	385.86	354.22	304.42
G 48.0	290.21	313.13	341.54	366.72	398.38	419.45	432.36	431.61	422.22	413.36	388.46	355.17	303.48
G 49.0	282.17	306.44	336.04	362.88	396.69	420.50	435.55	436.59	426.43	417.34	391.26	356.57	302.89
G 50.0	274.23	299.75	330.63	359.45	395.09	421.70	438.93	441.61	431.08	421.38	394.66	358.07	302.14
G 51.0	265.84	292.26	324.78	355.07	393.19	422.76	442.32	447.63	436.62	426.16	398.50	360.07	301.99
G 52.0	257.00	284.26	318.11	350.69	390.64	423.46	446.16	454.30	443.39	432.23	402.70	362.52	302.34
G 53.0	247.91	275.76	311.24	345.41	388.30	423.96	450.24	461.61	450.97	438.31	406.79	364.58	302.09
G 54.0	239.01	267.36	304.07	339.94	385.56	424.96	454.23	468.88	458.54	443.89	410.10	364.93	301.05
G 55.0	229.67	258.16	295.99	333.81	382.12	425.82	458.32	475.85	464.89	448.48	412.52	364.49	299.04
G 56.0	220.37	248.75	287.41	327.19	378.74	427.12	462.06	481.13	470.40	451.76	412.77	360.58	294.60
G 57.0	210.83	238.84	278.62	319.77	374.72	426.92	463.37	484.32	473.58	452.86	410.92	355.74	287.92
G 58.0	201.43	229.19	269.28	312.40	369.91	424.07	463.38	485.37	475.30	453.50	409.26	351.15	281.48
G 59.0	191.44	218.83	259.49	303.64	362.75	418.99	461.14	485.32	476.47	455.69	409.53	349.05	276.27
G 60.0	181.64	208.21	249.09	293.73	353.49	411.95	458.50	486.10	479.91	460.22	412.77	350.27	272.89
G 61.0	171.79	197.60	238.09	282.33	342.14	404.06	455.54	489.29	485.34	467.99	419.11	354.34	271.99
G 62.0	162.30	187.09	226.48	269.38	330.55	396.21	455.24	492.88	492.74	476.16	426.20	358.86	272.58
G 63.0	152.30	175.82	212.81	253.80	316.59	389.06	454.74	497.77	500.72	484.49	432.77	362.95	272.98
G 64.0	142.00	164.31	198.38	236.67	302.89	381.47	453.72	501.42	507.11	491.03	438.69	366.04	272.79
G 65.0	128.54	152.64	183.89	219.74	288.44	373.13	452.50	503.68	512.09	494.97	443.23	368.07	271.96
G 66.0	105.80	141.02	170.29	204.11	275.09	364.09	449.60	504.44	513.74	496.12	445.13	368.41	269.95
G 67.0	75.85	122.45	156.55	188.08	260.44	353.69	443.75	502.12	513.85	495.14	445.49	366.60	266.64
G 68.0	48.80	95.60	141.50	172.30	246.42	340.88	435.85	496.72	509.81	490.81	442.75	362.37	261.02
G 69.0	33.14	68.05	118.26	157.57	231.50	326.36	425.01	487.77	502.44	483.65	437.20	356.65	253.96
G 70.0	26.75	46.19	92.79	143.87	216.68	310.98	412.17	476.59	492.38	474.54	428.78	348.36	245.06
G 71.0	21.47	34.23	69.46	125.25	200.46	293.59	395.77	462.26	478.01	458.35	413.70	330.98	230.54
G 72.0	17.40	27.44	52.97	102.85	183.68	274.69	375.64	438.54	455.53				

Apparecchio	Rilievo	Lampada
Codice I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Codice 20-187_0920	Codice L-I-TR-2Z8-4000-500-2M-70-25
Nome I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Nome I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Numero 1
Archivio Eulumatd	Data 06-11-2020	Posizione

Flusso Apparecchio	7130.00 lm	Potenza Apparecchio	51.50 W	Efficacia	138.45 lm/W	Rendimento	100.00%
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Flusso Lampade	7130.00 lm	Valore Massimo	513.85 cd/klm	Posizione	C=10.00 G=67.00	CG	Asimmetrico
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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	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48		
G 1.0	327.07	325.88	325.69	325.73	324.35	326.09	325.53	324.89	324.31	324.28	323.38	324.87	323.80		
G 2.0	327.91	326.03	325.34	324.39	323.96	325.24	324.33	322.96	323.15	322.09	320.18	322.58	320.98		
G 3.0	327.91	325.83	325.88	323.20	323.81	322.35	322.78	320.73	319.28	319.29	317.78	318.65	316.49		
G 4.0	328.25	325.64	325.58	322.55	322.91	320.50	321.29	318.99	316.76	316.10	314.28	314.20	312.66		
G 5.0	328.93	326.05	325.53	322.35	321.57	319.10	318.89	316.71	313.63	312.56	310.23	309.96	307.97		
G 6.0	330.00	326.51	325.43	321.25	320.23	317.90	316.50	313.38	309.70	308.27	305.63	305.77	302.77		
G 7.0	331.48	327.16	325.52	320.25	318.79	315.40	314.01	310.01	305.77	303.64	300.28	300.03	296.56		
G 8.0	332.86	328.11	325.77	319.75	317.60	312.81	311.31	306.72	301.48	298.30	293.98	292.74	289.10		
G 9.0	335.14	329.25	326.27	319.11	316.26	310.66	307.97	302.40	295.58	291.68	286.28	284.36	280.52		
G 10.0	337.17	330.84	326.86	318.66	315.37	308.07	304.02	296.95	288.88	284.55	278.73	276.77	272.81		
G 11.0	338.90	332.13	327.36	317.96	313.68	305.08	299.27	290.85	282.33	277.51	271.68	269.78	265.90		
G 12.0	340.20	332.72	327.41	317.17	311.36	301.35	294.57	285.60	276.64	271.63	265.79	263.94	260.20		
G 13.0	341.14	332.77	327.11	315.98	308.34	296.57	289.67	280.65	271.66	265.89	260.29	258.11	254.95		
G 14.0	341.10	332.61	325.82	313.44	304.68	292.25	285.07	276.04	267.53	261.15	255.74	253.67	250.91		
G 15.0	340.31	331.17	323.65	309.57	300.37	287.87	281.12	271.78	263.36	257.20	252.04	250.08	247.58		
G 16.0	339.02	329.23	320.38	305.25	295.67	283.50	277.52	268.31	260.54	254.21	248.94	246.89	244.56		
G 17.0	337.59	327.10	316.51	300.13	290.82	279.32	274.01	265.54	257.72	251.76	246.34	243.80	241.53		
G 18.0	335.06	324.52	312.06	295.12	286.07	274.94	270.56	263.02	255.26	249.21	243.58	240.41	238.19		
G 19.0	332.14	320.84	306.81	289.85	281.37	270.57	267.26	260.55	253.35	246.22	240.98	237.42	234.86		
G 20.0	329.31	316.43	301.26	284.73	276.82	266.79	264.11	257.93	251.29	243.67	238.08	234.27	231.33		
G 21.0	326.19	311.77	296.06	279.86	272.81	263.65	261.26	255.16	248.88	241.02	235.38	231.22	228.20		
G 22.0	322.97	306.90	290.41	274.50	268.65	260.22	258.10	251.60	246.27	238.71	232.43	228.08	224.92		
G 23.0	319.80	301.69	285.35	269.48	264.54	257.14	254.80	248.53	242.85	236.01	229.57	225.43	221.48		
G 24.0	316.67	296.83	280.50	265.15	260.78	253.55	251.65	245.26	239.58	233.31	226.62	221.99	218.31		
G 25.0	313.50	292.31	276.34	261.33	257.41	250.07	248.20	241.94	236.31	230.46	224.17	219.29	215.13		
G 26.0	310.38	287.90	271.93	257.55	254.15	246.63	244.65	238.72	233.14	227.36	221.41	216.34	210.69		
G 27.0	307.36	284.12	268.16	254.27	250.78	242.85	240.75	235.41	229.77	224.11	218.26	210.76	201.00		
G 28.0	304.34	280.45	264.99	251.24	247.56	239.56	237.01	231.89	226.40	220.71	215.86	199.88	187.22		
G 29.0	301.22	277.17	262.07	248.56	244.59	236.03	233.46	228.32	223.29	214.38	199.40	186.50	172.04		
G 30.0	298.14	274.10	259.64	245.87	241.37	232.74	229.71	224.41	217.49	203.05	184.29	170.27	154.34		
G 31.0	295.42	271.07	257.22	243.44	238.35	229.21	225.96	220.64	206.96	188.52	167.38	152.34	136.04		
G 32.0	292.65	267.99	255.04	240.80	235.43	225.77	222.01	213.70	192.77	172.04	149.06	134.21	117.33		
G 33.0	290.12	265.61	253.10	238.22	232.31	222.69	218.81	203.24	177.26	154.85	131.15	116.32	99.32		
G 34.0	287.89	263.43	250.92	235.49	229.14	219.05	211.67	189.66	160.20	136.97	112.43	97.74	80.66		
G 35.0	285.76	261.39	248.74	232.80	225.82	215.47	201.23	174.20	142.34	118.68	93.81	79.01	62.51		
G 36.0	283.78	259.61	246.51	229.87	222.26	211.19	188.09	157.45	124.37	100.15	75.30	60.82	44.86		
G 37.0	281.90	258.02	244.38	226.94	218.70	204.36	174.04	141.15	107.16	82.82	58.08	44.04	30.59		
G 38.0	280.11	256.48	241.86	223.76	215.38	193.56	158.10	123.81	89.54	65.18	41.11	29.35	19.50		
G 39.0	278.18	254.94	238.98	220.28	210.82	180.72	141.50	106.57	72.03	48.15	27.25	19.15	15.07		
G 40.0	276.55	253.45	236.06	216.41	203.79	166.39	124.90	89.23	55.27	33.20	18.68	15.14	13.16		
G 41.0	275.07	251.91	233.14	213.23	194.14	151.95	108.80	72.94	40.18	22.31	15.42	13.44	12.51		
G 42.0	273.83	250.27	229.87	209.60	181.91	136.38	92.11	56.44	27.45	17.30	13.87	12.84	12.00		
G 43.0	272.64	248.19	226.55	205.53	168.34	120.45	75.66	41.04	19.76	15.09	13.26	12.34	11.60		
G 44.0	271.41	245.85	223.14	199.32	153.84	104.63	59.41	28.37	16.60	14.24	12.81	11.94	11.29		
G 45.0	270.22	243.07	219.52	190.07	138.64	88.66	43.91	20.45	15.24	13.64	12.36	11.54	11.09		
G 46.0	269.14	239.69	216.20	179.44	123.84	73.63	31.61	17.38	14.49	13.19	11.96	11.24	10.84		
G 47.0	268.05	236.42	212.93	166.72	108.15	58.20	22.65	15.80	13.94	12.54	11.56	10.94	10.89		
G 48.0	266.56	232.99	207.98	152.91	92.11	43.63	19.05	15.06	13.33	12.14	11.26	10.79	10.94		
G 49.0	264.88	229.41	200.60	138.25	76.57	31.44	17.20	14.41	12.78	11.64	11.06	10.59	10.94		
G 50.0	263.10	225.98	191.09	124.09	61.82	23.58	16.25	13.77	12.43	11.49	10.81	10.34	10.95		
G 51.0	261.07	222.61	179.49	109.14	47.36	20.35	15.45	13.27	12.08	11.19	10.61	10.24	10.95		
G 52.0	258.44	219.08	166.17	94.09	35.09	18.66	14.80	12.83	11.72	11.04	10.46	10.09	10.95		
G 53.0	255.62	215.46	151.91	79.23	26.73	17.61	14.20	12.33	11.57	10.84	10.26	9.89	10.95		
G 54.0	252.51	210.99	137.99	65.22	23.46	16.77	13.70	12.13	11.42	10.69	10.16	9.84	10.90		
G 55.0	248.16	204.00	123.08	51.46	21.73	16.02	13.45	11.94	11.27	10.59	10.06	9.84	10.90		
G 56.0	242.87	194.22	107.97	39.99	20.44	15.52	13.25	11.84	11.27	10.59	10.11	9.84	10.90		
G 57.0	235.95	181.65	93.21	32.34	19.45	15.18	13.15	11.79	11.27	10.64	10.21	9.89	10.80		
G 58.0	228.73	168.34	79.39	29.01	18.71	14.98	13.15	11.84	11.27	10.69	10.31	9.94	10.85		
G 59.0	221.50	153.79	65.67	27.12	18.16	14.93	13.25	11.89	11.42	10.84	10.46	10.09	10.90		
G 60.0	214.92	138.90	53.88	25.58	17.92	15.08	13.40	12.08	11.67	10.99	10.61	10.24	10.90		
G 61.0	208.47	124.55	45.96	24.34	17.97	15.32	13.75	12.38	11.92	11.29	10.76	10.39	10.84		
G 62.0	201.93	111.74	42.00	23.55	18.11	15.62	14.05	12.68	12.13	11.49	10.96	10.39	10.54		
G 63.0	192.72	99.32	38.88	23.10	18.61	16.07	14.45	13.03	12.48	11.74	10.96	10.39	10.34		
G 64.0	182.77	87.01	36.25	23.00	19.15	16.72	15.05	13.47	12.78	11.74	10.96	10.29	10.24		
G 65.0	173.17	76.34	34.12	23.30	19.80	17.36	15.55	13.87	12.93	11.64	10.86	10.29	9.88		
G 66.0	164.36	69.04	32.74	23.84	20.74	18.11	16.15	14.16	12.93	11.64	10.66	9.99	9.38		
G 67.0	154.13	64.22	31.90	24.49	21.78	19.05	16.80	14.36	12.98	11.54	10.46	9.59	9.08		
G 68.0	143.05	59.75	31.55	25.38	22.87	19.90	17.20	14.41	12.93	11.49	10.31	9.49	8.88		
G 69.0	131.08	55.18	31.45	26.53	23.95	20.65	17.25	14.41	12.78	11.34	10.06	9.29	8.62		
G 70.0	118.86	51.11	31.60	27.62	25.04	21.29	17.25	14.26	12.63	11.10	9.76	8.99	8.32		
G 71.0	106.60	47													

Apparecchio	Rilievo	Lampada
Codice I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Codice 20-187_0920	Codice L-I-TR-2Z8-4000-500-2M-70-25
Nome I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Nome I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Numero 1
Archivio Eulumdat	Data 06-11-2020	Posizione

Flusso Apparecchio	7130.00 lm	Potenza Apparecchio	51.50 W	Efficacia	138.45 lm/W	Rendimento	100.00%
Flusso Lampade	7130.00 lm	Valore Massimo	513.85 cd/klm	Posizione	C=10.00 G=67.00	CG	Asimmetrico

Tabella Intensità Luminosa - 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		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	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	G 0.0	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48	326.48
G 1.0	323.84	323.92	323.78	323.92	323.84	323.80	324.87	323.38	324.28	324.31	324.89	325.53	326.09	G 1.0	323.84	323.92	323.78	323.92	323.84	323.80	324.87	323.38	324.28	324.31	324.89	325.53	326.09	326.48
G 2.0	320.60	320.67	319.69	320.67	320.60	320.98	322.58	320.18	322.09	323.15	322.96	324.33	325.24	G 2.0	320.60	320.67	319.69	320.67	320.60	320.98	322.58	320.18	322.09	323.15	322.96	324.33	325.24	326.48
G 3.0	316.71	315.81	315.90	315.81	316.71	316.49	318.65	317.78	319.29	319.28	320.73	322.78	322.35	G 3.0	316.71	315.81	315.90	315.81	316.71	316.49	318.65	317.78	319.29	319.28	320.73	322.78	322.35	326.48
G 4.0	312.37	311.25	311.70	311.25	312.37	312.66	314.20	314.28	316.10	316.76	318.99	321.29	320.50	G 4.0	312.37	311.25	311.70	311.25	312.37	312.66	314.20	314.28	316.10	316.76	318.99	321.29	320.50	326.48
G 5.0	307.68	305.99	306.31	305.99	307.68	307.97	309.96	310.23	312.56	313.63	316.71	318.89	319.10	G 5.0	307.68	305.99	306.31	305.99	307.68	307.97	309.96	310.23	312.56	313.63	316.71	318.89	319.10	326.48
G 6.0	302.25	300.17	300.12	300.17	302.25	302.77	305.77	305.63	308.27	309.70	313.38	316.50	317.90	G 6.0	302.25	300.17	300.12	300.17	302.25	302.77	305.77	305.63	308.27	309.70	313.38	316.50	317.90	326.48
G 7.0	295.66	293.21	293.23	293.21	295.66	296.56	300.03	300.28	303.64	305.77	310.01	314.01	315.40	G 7.0	295.66	293.21	293.23	293.21	295.66	296.56	300.03	300.28	303.64	305.77	310.01	314.01	315.40	326.48
G 8.0	287.73	284.79	285.05	284.79	287.73	289.10	292.74	293.98	298.30	301.48	306.72	311.31	312.81	G 8.0	287.73	284.79	285.05	284.79	287.73	289.10	292.74	293.98	298.30	301.48	306.72	311.31	312.81	326.48
G 9.0	279.26	275.82	275.96	275.82	279.26	280.52	284.36	286.28	291.68	295.58	302.40	307.97	310.66	G 9.0	279.26	275.82	275.96	275.82	279.26	280.52	284.36	286.28	291.68	295.58	302.40	307.97	310.66	326.48
G 10.0	271.13	267.95	267.77	267.95	271.13	272.81	276.77	278.73	284.55	288.88	296.95	304.02	308.07	G 10.0	271.13	267.95	267.77	267.95	271.13	272.81	276.77	278.73	284.55	288.88	296.95	304.02	308.07	326.48
G 11.0	263.99	260.79	260.09	260.79	263.99	265.90	269.78	271.68	277.51	282.33	290.85	299.27	305.08	G 11.0	263.99	260.79	260.09	260.79	263.99	265.90	269.78	271.68	277.51	282.33	290.85	299.27	305.08	326.48
G 12.0	258.11	254.87	254.09	254.87	258.11	260.20	263.94	265.79	271.63	276.64	285.60	294.57	301.35	G 12.0	258.11	254.87	254.09	254.87	258.11	260.20	263.94	265.79	271.63	276.64	285.60	294.57	301.35	326.48
G 13.0	253.12	249.91	248.50	249.91	253.12	254.95	258.11	260.29	265.89	271.66	280.65	289.67	296.57	G 13.0	253.12	249.91	248.50	249.91	253.12	254.95	258.11	260.29	265.89	271.66	280.65	289.67	296.57	326.48
G 14.0	248.78	246.00	244.41	246.00	248.78	250.91	253.67	255.74	261.15	267.53	276.04	285.07	292.25	G 14.0	248.78	246.00	244.41	246.00	248.78	250.91	253.67	255.74	261.15	267.53	276.04	285.07	292.25	326.48
G 15.0	245.29	242.54	240.82	242.54	245.29	247.58	250.08	252.04	257.20	263.36	271.78	281.12	287.87	G 15.0	245.29	242.54	240.82	242.54	245.29	247.58	250.08	252.04	257.20	263.36	271.78	281.12	287.87	326.48
G 16.0	242.15	238.99	237.12	238.99	242.15	244.56	246.89	248.94	254.21	260.54	268.31	277.52	283.50	G 16.0	242.15	238.99	237.12	238.99	242.15	244.56	246.89	248.94	254.21	260.54	268.31	277.52	283.50	326.48
G 17.0	238.85	235.63	233.43	235.63	238.85	241.53	243.80	246.34	251.76	257.72	265.54	274.01	279.32	G 17.0	238.85	235.63	233.43	235.63	238.85	241.53	243.80	246.34	251.76	257.72	265.54	274.01	279.32	326.48
G 18.0	235.31	231.97	230.23	231.97	235.31	238.19	240.41	243.58	249.21	255.26	263.02	270.56	274.94	G 18.0	235.31	231.97	230.23	231.97	235.31	238.19	240.41	243.58	249.21	255.26	263.02	270.56	274.94	326.48
G 19.0	231.97	228.61	226.44	228.61	231.97	234.86	237.42	240.98	246.22	253.35	260.55	267.26	270.57	G 19.0	231.97	228.61	226.44	228.61	231.97	234.86	237.42	240.98	246.22	253.35	260.55	267.26	270.57	326.48
G 20.0	228.53	225.10	222.94	225.10	228.53	231.33	234.27	238.08	243.67	251.29	257.93	264.11	266.79	G 20.0	228.53	225.10	222.94	225.10	228.53	231.33	234.27	238.08	243.67	251.29	257.93	264.11	266.79	326.48
G 21.0	225.14	221.70	219.25	221.70	225.14	228.20	231.22	235.38	241.02	248.88	255.16	261.26	263.65	G 21.0	225.14	221.70	219.25	221.70	225.14	228.20	231.22	235.38	241.02	248.88	255.16	261.26	263.65	326.48
G 22.0	221.85	218.34	215.96	218.34	221.85	224.92	228.08	232.43	238.71	246.27	251.60	258.10	260.22	G 22.0	221.85	218.34	215.96	218.34	221.85	224.92	228.08	232.43	238.71	246.27	251.60	258.10	260.22	326.48
G 23.0	218.66	214.98	212.16	214.98	218.66	221.48	225.43	229.57	236.01	242.85	248.53	254.80	257.14	G 23.0	218.66	214.98	212.16	214.98	218.66	221.48	225.43	229.57	236.01	242.85	248.53	254.80	257.14	326.48
G 24.0	215.27	211.67	209.17	211.67	215.27	218.31	221.99	226.62	233.31	239.58	245.26	251.65	253.55	G 24.0	215.27	211.67	209.17	211.67	215.27	218.31	221.99	226.62	233.31	239.58	245.26	251.65	253.55	326.48
G 25.0	211.98	208.22	205.87	208.22	211.98	215.13	219.29	224.17	230.46	236.31	241.94	248.20	250.07	G 25.0	211.98	208.22	205.87	208.22	211.98	215.13	219.29	224.17	230.46	236.31	241.94	248.20	250.07	326.48
G 26.0	206.01	200.10	198.08	200.10	206.01	210.69	216.34	221.41	227.36	233.14	238.72	244.65	246.63	G 26.0	206.01	200.10	198.08	200.10	206.01	210.69	216.34	221.41	227.36	233.14	238.72	244.65	246.63	326.48
G 27.0	195.25	186.97	185.40	186.97	195.25	201.00	210.76	218.26	224.11	229.77	235.41	240.75	242.85	G 27.0	195.25	186.97	185.40	186.97	195.25	201.00	210.76	218.26	224.11	229.77	235.41	240.75	242.85	326.48
G 28.0	180.70	171.59	170.53	171.59	180.70	187.22	199.88	210.86	220.71	226.40	231.89	237.01	239.56	G 28.0	180.70	171.59	170.53	171.59	180.70	187.22	199.88	210.86	220.71	226.40	231.89	237.01	239.56	326.48
G 29.0	164.65	155.11	154.15	155.11	164.65	172.04	186.50	199.40	214.38	223.29	228.32	233.46	236.03	G 29.0	164.65	155.11	154.15	155.11	164.65	172.04	186.50	199.40	214.38	223.29	228.32	233.46	236.03	326.48
G 30.0	146.84	137.02	136.38	137.02	146.84	154.34	170.27	184.29	203.05	217.49	224.41	229.71	232.74	G 30.0	146.84	137.02	136.38	137.02	146.84	154.34	170.27	184.29	203.05	217.49	224.41	229.71	232.74	326.48
G 31.0	128.34	118.33	118.11	118.33	128.34	136.04	152.34	167.38	188.52	206.96	220.64	225.96	229.21	G 31.0	128.34	118.33	118.11	118.33	128.34	136.04	152.34	167.38	188.52	206.96	220.64	225.96	229.21	326.48
G 32.0	109.64	99.94	99.94	99.94	109.64	117.33	134.21	149.06	172.04	192.77	213.70	222.01	225.77	G 32.0	109.64	99.94	99.94	99.94	109.64	117.33	134.21	149.06	172.04	192.77	213.70	222.01	225.77	326.48
G 33.0	91.93	82.30	82.37	82.30	91.93	99.32	116.32	131.15	154.85	177.26	203.24	218.81	222.69	G 33.0	91.93	82.30	82.37	82.30	91.93	99.32	116.32	131.15	154.85	177.26	203.24	218.81	222.69	326.48
G 34.0	73.62	64.31	64.80	64.31	73.62	80.66	97.74	112.43	136.97	160.20	189.66	211.67	219.05	G 34.0	73.62	64.31	64.80	64.31	73.62	80.66	97.74	112.43	136.97	160.20	189.66	211.67	219.05	326.48
G 35.0	55.81	46.92	47.72	46.92	55.81	62.51	79.01	93.81	118.68	142.34	174.20	201.23	215.4															

Apparecchio	Rilievo	Lampada
Codice I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Codice 20-187_0920	Codice L-ITR-2Z8-4000-500-2M-70-25
Nome I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Nome I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Numero 1
Archivio Eulumdat	Data 06-11-2020	Posizione

Flusso Apparecchio	7130.00 lm	Potenza Apparecchio	51.50 W	Efficacia	138.45 lm/W	Rendimento	100.00%
Flusso Lampade	7130.00 lm	Valore Massimo	513.85 cd/klm	Posizione	C=10.00 G=67.00	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	326.48	326.48	326.48	326.48	326.48	326.48	326.48
G 1.0	324.35	325.73	325.69	325.88	327.07	326.73	327.34
G 2.0	323.96	324.39	325.34	326.03	327.91	327.42	328.64
G 3.0	323.81	323.20	325.88	325.83	327.91	328.16	329.39
G 4.0	322.91	322.55	325.58	325.64	328.25	328.69	329.93
G 5.0	321.57	322.35	325.53	326.05	328.93	329.62	331.31
G 6.0	320.23	321.25	325.43	326.51	330.00	330.85	333.15
G 7.0	318.79	320.25	325.52	327.16	331.48	333.02	335.50
G 8.0	317.60	319.75	325.77	328.11	332.86	334.94	338.21
G 9.0	316.26	319.11	326.27	329.25	335.14	337.67	341.37
G 10.0	315.37	318.66	326.86	330.84	337.17	339.89	344.39
G 11.0	313.68	317.96	327.36	332.13	338.90	342.42	347.51
G 12.0	311.36	317.17	327.41	332.72	340.20	344.55	349.93
G 13.0	308.34	315.98	327.11	332.77	341.14	346.14	351.65
G 14.0	304.68	313.44	325.82	332.61	341.10	346.39	352.60
G 15.0	300.37	309.57	323.65	331.17	340.31	346.34	353.11
G 16.0	295.67	305.25	320.38	329.23	339.02	345.95	353.31
G 17.0	290.82	300.13	316.51	327.10	337.59	345.26	353.16
G 18.0	286.07	295.12	312.06	324.52	335.06	343.52	351.75
G 19.0	281.37	289.85	306.81	320.84	332.14	341.59	350.33
G 20.0	276.82	284.73	301.26	316.43	329.31	339.46	349.12
G 21.0	272.81	279.86	296.06	311.77	326.19	337.13	347.45
G 22.0	268.65	274.50	290.41	306.90	322.97	334.95	346.24
G 23.0	264.54	269.48	285.35	301.69	319.80	332.91	344.88
G 24.0	260.78	265.15	280.50	296.83	316.67	330.78	343.91
G 25.0	257.41	261.33	276.34	292.31	313.50	329.10	343.56
G 26.0	254.15	257.55	271.93	287.90	310.38	327.61	342.95
G 27.0	250.78	254.27	268.16	284.12	307.36	326.52	342.59
G 28.0	247.56	251.24	264.99	280.45	304.34	325.13	342.89
G 29.0	244.59	248.56	262.07	277.17	301.22	324.19	342.98
G 30.0	241.37	245.87	259.64	274.10	298.14	323.29	343.43
G 31.0	238.35	243.44	257.22	271.07	295.42	322.35	343.82
G 32.0	235.43	240.80	255.04	267.99	292.65	321.46	344.32
G 33.0	232.31	238.22	253.10	265.61	290.12	320.76	345.07
G 34.0	229.14	235.49	250.92	263.43	287.89	319.92	345.71
G 35.0	225.82	232.80	248.74	261.39	285.76	319.17	346.31
G 36.0	222.26	229.87	246.51	259.61	283.78	318.13	347.16
G 37.0	218.70	226.94	244.38	258.02	281.90	317.09	347.91
G 38.0	215.38	223.76	241.86	256.48	280.11	316.00	348.41
G 39.0	210.82	220.28	238.98	254.94	278.18	314.71	349.01
G 40.0	203.79	216.41	236.06	253.45	276.55	313.37	349.66
G 41.0	194.14	213.23	233.14	251.91	275.07	312.04	350.26
G 42.0	181.91	209.60	229.87	250.27	273.83	310.65	350.86
G 43.0	168.34	205.53	226.55	248.19	272.64	309.46	351.36
G 44.0	153.84	199.32	223.14	245.85	271.41	308.23	352.01
G 45.0	138.64	190.07	219.52	243.07	270.22	306.94	352.66
G 46.0	123.84	179.44	216.20	239.69	269.14	305.66	353.31
G 47.0	108.15	166.72	212.93	236.42	268.05	304.42	354.22
G 48.0	92.11	152.91	207.98	232.99	266.56	303.48	355.17
G 49.0	76.57	138.25	200.60	229.41	264.88	302.89	356.57
G 50.0	61.82	124.09	191.09	225.98	263.10	302.14	358.07
G 51.0	47.36	109.14	179.49	222.61	261.07	301.99	360.07
G 52.0	35.09	94.09	166.17	219.08	258.44	302.34	362.52
G 53.0	26.73	79.23	151.91	215.46	255.62	302.09	364.58
G 54.0	23.46	65.22	137.99	210.99	252.51	301.05	364.93
G 55.0	21.73	51.46	123.08	204.00	248.16	299.04	364.49
G 56.0	20.44	39.99	107.97	194.22	242.87	294.60	360.58
G 57.0	19.45	32.34	93.21	181.65	235.95	287.92	355.74
G 58.0	18.71	29.01	79.39	168.34	228.73	281.48	351.15
G 59.0	18.16	27.12	65.67	153.79	221.50	276.27	349.05
G 60.0	17.92	25.58	53.88	138.90	214.92	272.89	350.27
G 61.0	17.97	24.34	45.96	124.55	208.47	271.99	354.34
G 62.0	18.11	23.55	42.00	111.74	201.93	272.58	358.86
G 63.0	18.61	23.10	38.88	99.32	192.72	272.98	362.95
G 64.0	19.15	23.00	36.25	87.01	182.77	272.79	366.04
G 65.0	19.80	23.30	34.12	76.34	173.17	271.96	368.07
G 66.0	20.74	23.84	32.74	69.04	164.36	269.95	368.41
G 67.0	21.78	24.49	31.90	64.22	154.13	266.64	366.60
G 68.0	22.87	25.38	31.55	59.75	143.05	261.02	362.37
G 69.0	23.95	26.53	31.45	55.18	131.08	253.96	356.65
G 70.0	25.04	27.62	31.60	51.11	118.86	245.06	348.36
G 71.0	25.78	28.76	32.04	47.33	106.60	230.54	330.98
G 72.0	26.23	30.00	33.04	44.40	96.01	213.09	308.94

Apparecchio				Rilievo			Lampada					
Codice	I-TRON Zero 2Z8 STU-S 4.50-2M VEX			Codice	20-187_0920			Codice	L-ITR-2Z8-4000-500-2M-70-25			
Nome	I-TRON Zero 2Z8 STU-S 4.50-2M VEX			Nome	I-TRON Zero 2Z8 STU-S 4.50-2M VEX			Numero	1			
Archivio	Eulumdat			Data	06-11-2020			Posizione				

Flusso Apparecchio	7130.00 lm	Potenza Apparecchio	51.50 W	Efficacia	138.45 lm/W	Rendimento	100.00%
Flusso Lampade	7130.00 lm	Valore Massimo	513.85 cd/klm	Posizione	C=10.00 G=67.00	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	365.81	407.99	427.58	409.12	348.11	251.21	163.78	80.90	42.17	21.76	14.28	10.42	9.08
G 74.0	344.17	383.27	402.18	379.39	319.10	225.50	138.97	63.94	33.30	17.29	11.86	8.87	8.02
G 75.0	317.69	353.93	375.25	350.12	291.40	202.46	113.25	51.60	28.25	14.03	10.05	7.72	7.02
G 76.0	281.41	313.48	338.73	313.53	259.29	174.80	92.58	40.00	20.21	11.41	8.45	6.61	6.21
G 77.0	234.51	262.45	292.89	270.80	222.56	142.48	74.24	30.20	15.65	9.25	7.14	5.71	5.35
G 78.0	183.82	207.92	240.04	223.92	183.41	110.11	56.28	22.29	12.05	7.59	6.03	4.86	4.54
G 79.0	139.71	158.97	189.98	177.97	146.74	82.41	40.31	16.22	9.42	6.23	5.03	4.11	3.99
G 80.0	100.06	114.31	141.43	132.76	110.20	57.53	26.74	11.35	7.39	5.08	4.12	3.51	3.28
G 81.0	68.71	79.36	100.18	94.08	77.16	37.68	17.02	7.81	5.72	4.12	3.37	2.81	2.78
G 82.0	45.73	53.79	68.63	63.32	49.66	23.02	10.61	5.57	4.51	3.32	2.77	2.26	2.17
G 83.0	29.37	35.59	46.19	40.84	31.02	13.60	6.75	4.08	3.54	2.61	2.21	1.81	1.77
G 84.0	17.94	21.78	28.82	24.34	17.95	7.35	4.30	2.89	2.53	1.86	1.66	1.30	1.36
G 85.0	10.78	12.66	16.53	13.42	9.63	3.98	2.80	1.94	1.82	1.31	1.11	0.90	0.91
G 86.0	6.06	6.83	8.47	6.34	4.51	2.17	1.70	1.19	1.07	0.75	0.65	0.55	0.56
G 87.0	3.25	3.39	4.25	2.74	2.01	1.16	1.00	0.70	0.56	0.40	0.40	0.25	0.35
G 88.0	0.91	0.90	1.30	0.75	0.75	0.55	0.40	0.25	0.25	0.20	0.20	0.05	0.05
G 89.0	0.25	0.20	0.40	0.30	0.25	0.20	0.20	0.10	0.05	0.05	0.05	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 I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Codice 20-187_0920	Codice L-ITR-2Z8-4000-500-2M-70-25
Nome I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Nome I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Numero 1
Archivio Eulumdat	Data 06-11-2020	Posizione

Flusso Apparecchio	7130.00 lm	Potenza Apparecchio	51.50 W	Efficacia	138.45 lm/W	Rendimento	100.00%
Flusso Lampade	7130.00 lm	Valore Massimo	513.85 cd/klm	Posizione	C=10.00 G=67.00	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	7.93	7.43	6.84	6.50	5.88	5.73	5.88	6.50	6.84	7.43	7.93	9.08	10.42
G 74.0	7.03	6.77	6.04	5.85	5.27	5.23	5.27	5.85	6.04	6.77	7.03	8.02	8.87
G 75.0	6.32	6.01	5.43	5.29	4.72	4.62	4.72	5.29	5.43	6.01	6.32	7.02	7.72
G 76.0	5.57	5.29	4.73	4.59	4.17	4.12	4.17	4.59	4.73	5.29	5.57	6.21	6.61
G 77.0	4.72	4.58	4.13	4.08	3.67	3.62	3.67	4.08	4.13	4.58	4.72	5.35	5.71
G 78.0	4.06	3.97	3.67	3.53	3.21	3.12	3.21	3.53	3.67	3.97	4.06	4.54	4.86
G 79.0	3.56	3.46	3.12	3.07	2.91	2.91	2.91	3.07	3.12	3.46	3.56	3.99	4.11
G 80.0	3.06	3.00	2.72	2.62	2.51	2.51	2.51	2.62	2.72	3.00	3.06	3.28	3.51
G 81.0	2.56	2.44	2.26	2.22	2.01	2.01	2.01	2.22	2.26	2.44	2.56	2.78	2.81
G 82.0	2.06	1.99	1.91	1.86	1.61	1.61	1.61	1.86	1.91	1.99	2.06	2.17	2.26
G 83.0	1.66	1.63	1.46	1.51	1.41	1.41	1.41	1.51	1.46	1.63	1.66	1.77	1.81
G 84.0	1.15	1.17	1.06	1.11	1.00	1.00	1.00	1.11	1.06	1.17	1.15	1.36	1.30
G 85.0	0.75	0.76	0.70	0.71	0.60	0.70	0.60	0.71	0.70	0.76	0.75	0.91	0.90
G 86.0	0.45	0.46	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.46	0.45	0.56	0.55
G 87.0	0.20	0.31	0.20	0.30	0.10	0.10	0.10	0.30	0.20	0.31	0.20	0.35	0.25
G 88.0	0.05	0.10	0.05	0.10	0.00	0.10	0.00	0.10	0.05	0.10	0.05	0.05	0.05
G 89.0	0.00	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 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	I-TRON Zero 2Z8 STU-S 4.50-2M VEX		Codice	20-187_0920		Codice	I-ITR-2Z8-4000-500-2M-70-25		
Nome	I-TRON Zero 2Z8 STU-S 4.50-2M VEX		Nome	I-TRON Zero 2Z8 STU-S 4.50-2M VEX		Numero	L		
Archivio	Eulumdat		Data	06-11-2020		Posizione			

Flusso Apparecchio	7130.00 lm	Potenza Apparecchio	51.50 W	Efficacia	138.45 lm/W	Rendimento	100.00%	
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Flusso Lampade	7130.00 lm	Valore Massimo	513.85 cd/klm	Posizione	C=10.00 G=67.00	CG Asimmetrico		
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	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	14.28	21.76	42.17	80.90	163.78	251.21	348.11	409.12	427.58	407.99	365.81	287.18	193.55
G 74.0	11.86	17.29	33.30	63.94	138.97	225.50	319.10	379.39	402.18	383.27	344.17	267.54	175.10
G 75.0	10.05	14.03	26.25	51.60	113.25	202.46	291.40	350.12	375.25	353.93	317.69	243.46	153.85
G 76.0	8.45	11.41	20.21	40.00	92.58	174.80	259.29	313.53	338.73	313.48	281.41	211.97	130.47
G 77.0	7.14	9.25	15.65	30.20	74.24	142.48	222.56	270.80	292.89	262.45	234.51	172.54	104.09
G 78.0	6.03	7.59	12.05	22.29	56.28	110.11	183.41	223.92	240.04	207.92	183.82	133.62	79.04
G 79.0	5.03	6.23	9.42	16.22	40.31	82.41	146.74	177.97	189.98	158.97	139.71	101.12	58.84
G 80.0	4.12	5.08	7.39	11.35	26.74	57.53	110.20	132.76	141.43	114.31	100.06	72.53	42.59
G 81.0	3.37	4.12	5.72	7.81	17.02	37.68	77.16	94.08	100.18	79.36	68.71	49.57	30.65
G 82.0	2.77	3.32	4.51	5.57	10.61	23.02	49.66	63.32	68.63	53.79	45.73	32.21	22.14
G 83.0	2.21	2.61	3.54	4.08	6.75	13.60	31.02	40.84	46.19	35.59	29.37	20.28	15.16
G 84.0	1.66	1.86	2.53	2.89	4.30	7.35	17.95	24.34	28.82	21.78	17.94	12.23	10.01
G 85.0	1.11	1.31	1.82	1.94	2.80	3.98	9.63	13.42	16.53	12.66	10.78	7.10	6.15
G 86.0	0.65	0.75	1.07	1.19	1.70	2.17	4.51	6.34	8.47	6.83	6.06	3.83	3.17
G 87.0	0.40	0.40	0.56	0.70	1.00	1.16	2.01	2.74	4.25	3.39	3.25	2.02	1.34
G 88.0	0.20	0.20	0.25	0.25	0.40	0.55	0.75	0.75	1.30	0.90	0.91	0.55	0.30
G 89.0	0.05	0.05	0.05	0.10	0.20	0.20	0.25	0.30	0.40	0.20	0.25	0.15	0.15
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	I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Codice	20-187_0920	Codice	L-ITR-2Z8-4000-500-2M-70-25
Nome	I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Nome	I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Numero	1
Archivio	Eulumdat	Data	06-11-2020	Posizione	

Flusso Apparecchio 7130.00 lm Potenza Apparecchio 51.50 W Efficacia 138.45 lm/W Rendimento 100.00%

Flusso Lampade 7130.00 lm Valore Massimo 513.85 cd/klm Posizione C=10.00 G=67.00 CG Asimmetrico

	Tabella Intensità Luminose - cd/klm												
	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	86.02	42.41	34.37	30.80	26.18	20.85	15.95	12.83	11.07	9.49	8.06	7.39	6.86
G 74.0	75.78	41.22	35.76	31.44	25.78	20.00	14.95	11.94	10.11	8.74	7.31	6.79	6.10
G 75.0	65.99	40.52	36.55	31.39	24.70	18.81	13.70	10.90	9.06	7.79	6.51	5.94	5.45
G 76.0	56.59	40.07	37.00	30.75	23.11	17.16	12.05	9.51	7.95	6.84	5.45	5.09	4.54
G 77.0	48.18	39.57	36.50	28.86	21.03	15.23	10.25	8.12	6.69	5.59	4.50	4.14	3.73
G 78.0	41.40	38.62	34.82	26.23	18.41	13.04	8.45	6.64	5.33	4.55	3.60	3.35	2.93
G 79.0	36.10	36.88	31.46	23.05	15.54	10.70	6.70	5.20	4.13	3.50	2.65	2.55	2.22
G 80.0	31.15	33.64	27.20	19.08	12.37	8.41	5.05	3.87	2.92	2.55	1.95	1.85	1.51
G 81.0	26.30	28.58	21.80	14.81	9.16	6.07	3.60	2.68	2.01	1.70	1.30	1.30	1.11
G 82.0	20.91	22.37	15.95	10.58	6.34	4.18	2.40	1.73	1.31	1.15	0.90	0.90	0.71
G 83.0	15.37	15.92	10.80	7.11	4.06	2.69	1.50	1.14	0.86	0.75	0.60	0.50	0.45
G 84.0	10.12	9.92	6.24	4.13	2.28	1.59	0.90	0.64	0.45	0.45	0.35	0.35	0.30
G 85.0	5.56	5.40	3.07	2.14	1.14	0.85	0.45	0.35	0.30	0.30	0.20	0.20	0.10
G 86.0	2.53	2.33	1.24	0.85	0.50	0.40	0.20	0.20	0.10	0.10	0.05	0.05	0.00
G 87.0	0.84	0.74	0.40	0.30	0.20	0.20	0.05	0.05	0.00	0.00	0.00	0.00	0.00
G 88.0	0.20	0.20	0.20	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 89.0	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Codice 20-187_0920	Codice L-ITR-2Z8-4000-500-2M-70-25
Nome I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Nome I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Numero 1
Archivio Eulumdat	Data 06-11-2020	Posizione

Flusso Apparecchio	7130.00 lm	Potenza Apparecchio	51.50 W	Efficacia	138.45 lm/W	Rendimento	100.00%
Flusso Lampade	7130.00 lm	Valore Massimo	513.85 cd/klm	Posizione	C=10.00 G=67.00	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	6.34	5.71	5.59	5.71	6.34	6.86	7.39	8.06	9.49	11.07	12.83	15.95	20.85
G 74.0	5.69	5.06	4.89	5.06	5.69	6.10	6.79	7.31	8.74	10.11	11.94	14.95	20.00
G 75.0	4.99	4.36	4.39	4.36	4.99	5.45	5.94	6.51	7.79	9.06	10.90	13.70	18.81
G 76.0	4.24	3.71	3.69	3.71	4.24	4.54	5.09	5.45	6.84	7.95	9.51	12.05	17.16
G 77.0	3.49	2.96	3.00	2.96	3.49	3.73	4.14	4.50	5.59	6.69	8.12	10.25	15.23
G 78.0	2.69	2.26	2.30	2.26	2.69	2.93	3.35	3.60	4.55	5.33	6.64	8.45	13.04
G 79.0	2.00	1.80	1.80	1.80	2.00	2.22	2.55	2.65	3.50	4.13	5.20	6.70	10.70
G 80.0	1.50	1.20	1.20	1.20	1.50	1.51	1.85	1.95	2.55	2.92	3.87	5.05	8.41
G 81.0	1.10	0.80	0.80	0.80	1.10	1.11	1.30	1.30	1.70	2.01	2.68	3.60	6.07
G 82.0	0.70	0.50	0.50	0.50	0.70	0.71	0.90	0.90	1.15	1.31	1.73	2.40	4.18
G 83.0	0.40	0.40	0.40	0.40	0.40	0.45	0.50	0.60	0.75	0.86	1.14	1.50	2.69
G 84.0	0.30	0.30	0.30	0.30	0.30	0.30	0.35	0.35	0.45	0.45	0.64	0.90	1.59
G 85.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.30	0.35	0.45	0.85
G 86.0	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.10	0.10	0.20	0.20	0.40
G 87.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.20
G 88.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
G 89.0	0.00	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 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	I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Codice	20-187_0920	Codice	L-ITR-2Z8-4000-500-2M-70-25
Nome	I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Nome	I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Numero	1
Archivio	Eulumdat	Data	06-11-2020	Posizione	

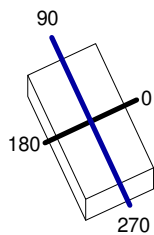
Flusso Apparecchio	7130.00 lm	Potenza Apparecchio	51.50 W	Efficacia	138.45 lm/W	Rendimento	100.00%
Flusso Lampade	7130.00 lm	Valore Massimo	513.85 cd/klm	Posizione	C=10.00 G=67.00	CG	Asimmetrico

Tabella Intensità Luminosa - 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	26.18	30.80	34.37	42.41	86.02	193.55	287.18
G 74.0	25.78	31.44	35.76	41.22	75.78	175.10	267.54
G 75.0	24.70	31.39	36.55	40.52	65.99	153.85	243.46
G 76.0	23.11	30.75	37.00	40.07	56.59	130.47	211.97
G 77.0	21.03	28.86	36.50	39.57	48.18	104.09	172.54
G 78.0	18.41	26.23	34.82	38.62	41.40	79.04	133.62
G 79.0	15.54	23.05	31.46	36.88	36.10	58.84	101.12
G 80.0	12.37	19.08	27.20	33.64	31.15	42.59	72.53
G 81.0	9.16	14.81	21.80	28.58	26.30	30.65	49.57
G 82.0	6.34	10.58	15.95	22.37	20.91	22.14	32.21
G 83.0	4.06	7.11	10.80	15.92	15.37	15.16	20.28
G 84.0	2.28	4.13	6.24	9.92	10.12	10.01	12.23
G 85.0	1.14	2.14	3.07	5.40	5.56	6.15	7.10
G 86.0	0.50	0.85	1.24	2.33	2.53	3.17	3.83
G 87.0	0.20	0.30	0.40	0.74	0.84	1.34	2.02
G 88.0	0.05	0.05	0.20	0.20	0.20	0.30	0.55
G 89.0	0.00	0.00	0.05	0.05	0.05	0.15	0.15
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

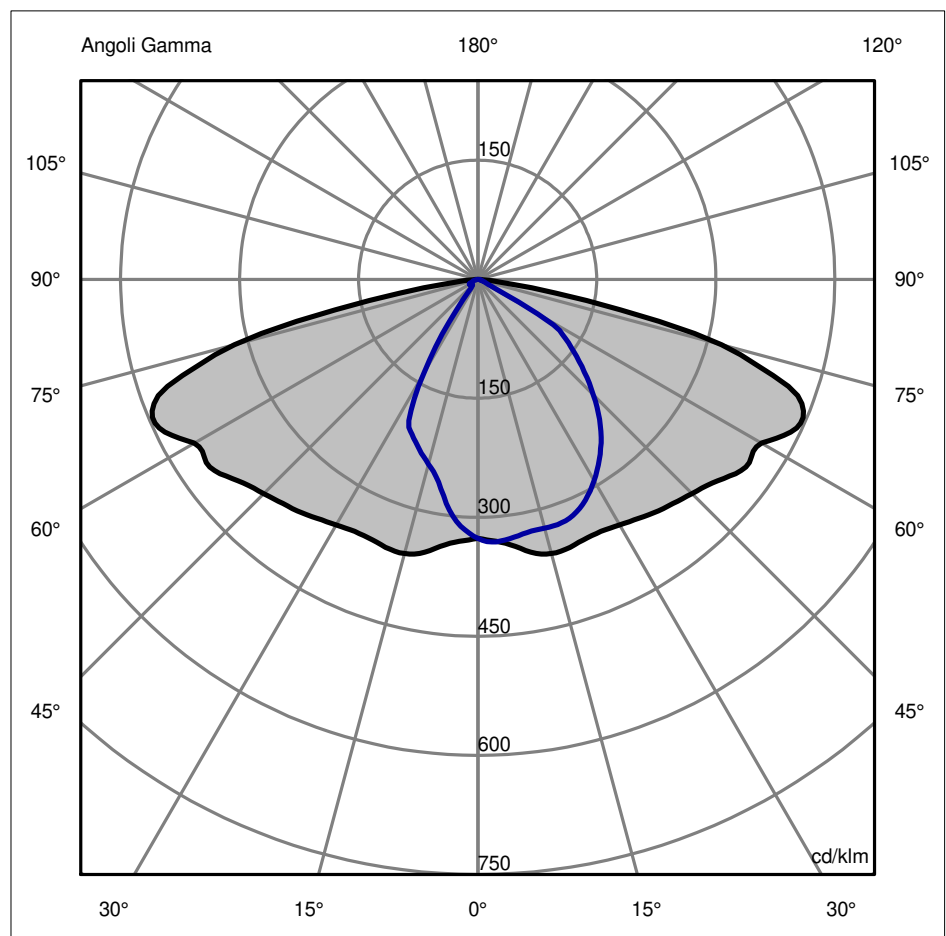
Apparecchio		Rilievo		Lampada	
Codice	I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Codice	20-187_0920	Codice	L-ITR-2Z8-4000-500-2M-70-25
Nome	I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Nome	I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Numero	1
Archivio	Eulumdat	Data	06-11-2020	Posizione	
Flusso Apparecchio	7130.00 lm	Potenza Apparecchio	51.50 W	Efficacia	138.45 lm/W
Flusso Lampade	7130.00 lm	Valore Massimo	513.85 cd/klm	Posizione	C=10.00 G=67.00
Apparecchio Rettangolare	Lung. 540 mm	Larg. 295 mm	Alt. 110 mm		
Area Luminosa Rettangolare	Lung. 120 mm	Larg. 220 mm	Alt. 0 mm		
Area Luminosa Orizzontale	0.026400 m ²	Area Luminosa Piano 180°	0.000000 m ²		
Area Luminosa Piano 0°	0.000000 m ²	Area Luminosa Piano 270°	0.000000 m ²		
Area Luminosa Piano 90°	0.000000 m ²	Area Luminosa a 76°	0.006387 m ²		
Sistema Coordinate	CG	Tipo di Simmetria	Asimmetrico		
Data	06-11-2020	Massimo Angolo Gamma	180		
Lampade Apparecchio					
Archivio	Codice	Nome	Flusso [lm]	Pot. [W]	Q.tà
	L-ITR-2Z8-4000-500-2M-70-25	TR-2Z8-4000-500-2M-70-25 - 51.50 W	7130.00	51.50	1
C.I.E.	45 77 97 100 100	D DIN 5040	A30		
F UTE	1.00 E	B NBN	BZ 5 / 3 / BZ 4		

540mm x 295mm



Semipiani C
 180.0 ——— 0.0
 270.0 ——— 90.0

ULOR 0.00 %
 DLOR 100.00 %
 RN 0.00 %



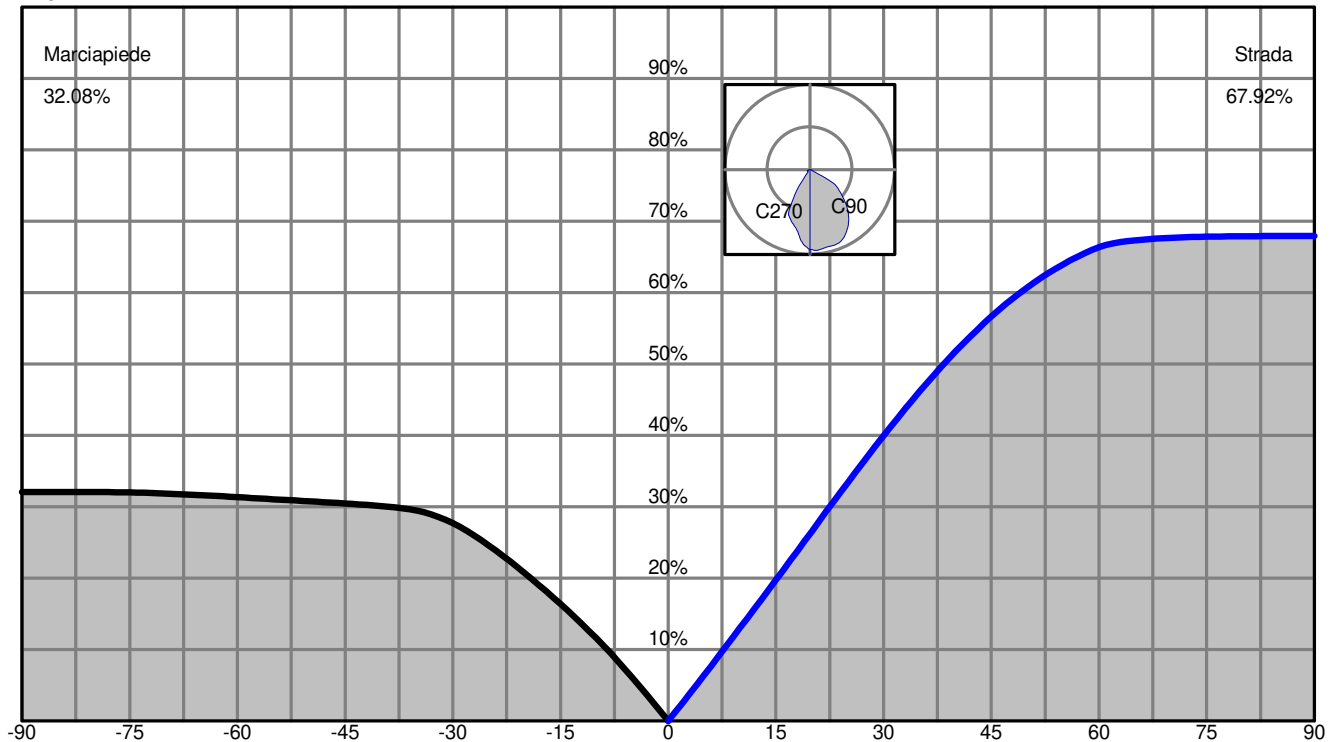
Apparecchio		Rilievo		Lampada	
Codice	I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Codice	20-187_0920	Codice	L-ITR-2Z8-4000-500-2M-70-25
Nome	I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Nome	I-TRON Zero 2Z8 STU-S 4.50-2M VEX	Numero	1
Archivio	Eulumdat	Data	06-11-2020	Posizione	

Flusso Apparecchio	7130.00 lm	Potenza Apparecchio	51.50 W	Efficacia	138.45 lm/W	Rendimento	100.00%
Flusso Lampade	7130.00 lm	Valore Massimo	513.85 cd/klm	Posizione	C=10.00 G=67.00	CG	Asimmetrico

Marciapiede			Strada		
Piano	0	0.00%	Piano	0	0.00%
Piano	-5	6.09%	Piano	5	6.44%
Piano	-10	11.58%	Piano	10	13.04%
Piano	-15	16.39%	Piano	15	19.75%
Piano	-20	20.71%	Piano	20	26.58%
Piano	-25	24.60%	Piano	25	33.38%
Piano	-30	27.72%	Piano	30	39.96%
Piano	-35	29.46%	Piano	35	46.13%
Piano	-40	30.09%	Piano	40	51.73%
Piano	-45	30.47%	Piano	45	56.63%
Piano	-50	30.77%	Piano	50	60.71%
Piano	-55	31.06%	Piano	55	63.96%
Piano	-60	31.35%	Piano	60	66.37%
Piano	-65	31.63%	Piano	65	67.31%
Piano	-70	31.86%	Piano	70	67.66%
Piano	-75	32.01%	Piano	75	67.82%
Piano	-80	32.07%	Piano	80	67.89%
Piano	-85	32.08%	Piano	85	67.92%
Piano	-90	32.08%	Piano	90	67.92%

Angolo Inclinazione = 0.0

DLOR = 100.00%



Spread	37.9° Stretto	DLOR	100.00000 %
Throw	63.2° Intermedio	ULOR	0.00000 %
SLI	3.3 Medio	Rendimento	100.00000 %
Cutoff CIE	Non Cutoff - Max: C=10.0° Gamma=67.0°	RN	0.00000 %
Cutoff Iesna	Semi Cutoff	Classe Intensità Luminosa	G2
DIN5044	--	Indice Abbagliamento	D3
IESNA Type II Medium Asymmetrical			