



LED modules  
**Moduli LED**

Your Lighting Partner



# TCI

## Your Lighting Partner

TCI is an **Italian** manufacturing company, worldwide known as a **leader** in the production of **electronic components for lighting**. Our passion for light dates back **40 years** ago and has evolved over the time, always preserving the typical values of the **Italian tradition: quality and reliability**.

We are a dynamic and fast growing enterprise, focused on **customer satisfaction** and **market trends**. In many years of activity, TCI has been able to anticipate, adapt to and even lead market changes. We quickly reached a global dimension through our extensive network of sales managers, agents and distributors.

**Experience** and **reliability** are the keys to our success. **Innovation** is our driving force. We provide our customers with **constantly updated products**: LED DRIVERS, IOT WIRELESS CONTROL SYSTEMS, LED MODULES, LENSES, LEDs, COBs and TAILOR-MADE SOLUTIONS.

We strive to be **more than a reliable supplier**: we want to be a **valuable partner** for all of our customers.

## Il Vostro Partner nell'Illuminazione

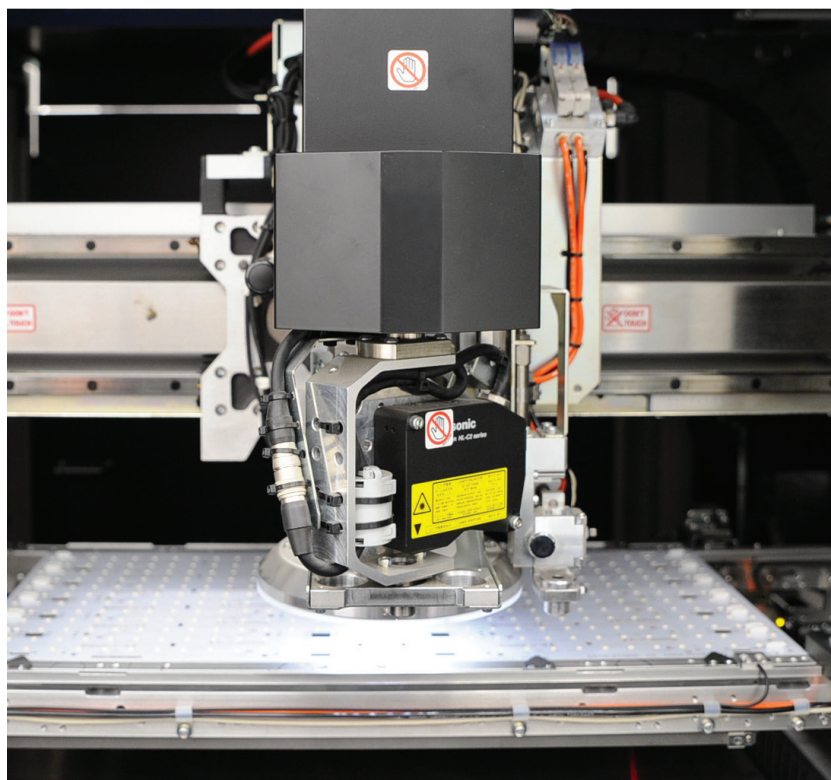
TCI è un'**azienda italiana** conosciuta in tutto il mondo come **leader** nella produzione di **componenti elettronici per l'illuminazione**. La nostra passione per la luce risale a **40 anni fa** e si è evoluta nel tempo mantenendo i tipici valori della **tradizione italiana: qualità ed affidabilità**.

Siamo una realtà dinamica e in rapida espansione, focalizzata sulla **soddisfazione del cliente** e sui **trend di mercato**. In molti anni di attività, TCI è stata in grado di anticipare, adattarsi ai cambiamenti di mercato e perfino guidarli. Abbiamo raggiunto in breve tempo una **dimensione globale** attraverso la nostra estesa rete di sales manager, agenti e distributori.

**Esperienza e affidabilità** sono le chiavi del nostro successo. L'**innovazione** è la nostra forza motrice. Forniamo ai nostri clienti soluzioni sempre all'avanguardia: ALIMENTATORI LED, SISTEMI DI CONTROLLO WIRELESS IOT, MODULI LED, LENTI, LED, COB e SOLUZIONI PERSONALIZZATE.

Ci impegniamo per essere **più di un fornitore affidabile**: vogliamo essere un **partner prezioso** per tutti i nostri clienti.





## Legenda

Name and code definition - Definizione nome e codice**LM 560 / 20 H 64 L**

**LM** = **module shape**. Linear module (LM); square or rectangular module (SM); finger module (FM); round module (RM); street lighting module (SLM).  
**forma del modulo**. Modulo lineare (LM); modulo quadrato o rettangolare (SM); modulo finger (FM); modulo tondo (RM); modulo stradale (SLM).

**560** = **length or diameter - lunghezza o diametro**

**20** = **width - larghezza**

**H** = **LED type - tipologia di LED**

**64** = **n. of LEDs - numero di LED**

**L** = **external connectors - morsetti esterni**

**122039 / 8 30 H**

**122039** = **module design - design del modulo**

**8** = **CRI 70 (7); 80 (8); 90 (9)**

**30** = **CCT - temperatura colore**. 27 (2700K); 30 (3000K); 40 (4000K); 50 (5000K); 57 (5700K); 65 (6500K)

**H** = **LED type - tipologia di LED**

Conversion table - Tabella di conversione

TCI	International
LM280	1 ft
LM560	2 ft
LM1120	4 ft
LM1400	5 ft

Sommario



Page  
Pagina

**1 LINEAR LIGHTING**

**1.1 SMART series**

LM70/20E4 - LM140/20E8 - LM280/20E16 - LM560/20E32 - LM1120/20E32 - LM1400/20E80	4
LM140/20E12 - LM280/20E24 - LM560/20E48 - LM1120/20E96 - LM1400/20E120	6
LM70/20E8 - LM140/20E16 - LM280/20E32 - LM560/20E64 - LM1120/20E128 - LM1400/20E160	8
LM139/20E12 - LM279/20E24 - LM559/20E48	10
LM139/20E12 - LM279/20E24 - LM559/20E48	12
LM280/40E30 - LM560/40E60	14
SM280/55E33 - SM560/55E66 - SM280/55E33L - SM560/55E66L	16

**1.2 SMART PRO series**

LM70/20E4 - LM140/20E8 - LM280/20E16 - LM560/20E32 - LM1120/20E32 - LM1400/20E80	18
LM140/20E12 - LM280/20E24 - LM560/20E48 - LM1120/20E96 - LM1400/20E120	20
LM70/20E8 - LM140/20E16 - LM280/20E32 - LM560/20E64 - LM1120/20E128 - LM1400/20E160	22
LM139/20E12 - LM279/20E24 - LM559/20E48	24
LM139/20E12 - LM279/20E24 - LM559/20E48	26
LM280/40E30 - LM560/40E60	28
SM280/55E33 - SM560/55E66 - SM280/55E33L - SM560/55E66L	30
LM280/24E28 - LM560/24E56 - LM1120/24E112	32
LM280/23E14	34

**1.3 TUNABLE WHITE series**

LM280/20E32 - LM560/20E64 - TUNABLE WHITE	36
LM279/22E48 - LM559/22E96 - TUNABLE WHITE	38



**2 SPACE LIGHTING**

**2.1 SMART PRO series**

FM250/245E30 - FM490/233E60	42
FM255/260E56 - FM510/260E112	44

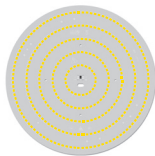
**2.2 TUNABLE WHITE series**

SM270/254E144 - TUNABLE WHITE	46
-------------------------------	----

**2.3 ROUND series**

RM50E30 - RM80E44 - RM120E55	48
RM160E78 - RM220E143 - RM320E85	50
RM522E98 - RM812E252 - RM1072E140	52
RM420E286 - RM522E220	54
RM802E176 - RM1082E308	56

Sommario



Page  
Pagina

**3 OUTDOOR & INDUSTRIAL LIGHTING**

**3.1 RECTANGULAR series**

SLM70/50H4 - SLM121/50H8 - SLM172/50H12 - SLM224/50H16	60
SLM70/50G4 - SLM121/50G8 - SLM172/50G12 - SLM224/50G16	62
SLM70/50Y16 - SLM121/50Y32 - SLM172/50Y48 - SLM224/50Y64	64
SLM146/45H12 - SLM146/45G12	66
SLM193/145G48	68
SLM170/170H48	70
SLM136/136H48	72

**3.2 ROUND series**

RM255E318 - RM255Y318	74
RM225E320 - RM225Y320	76



**4 LENSES & REFLECTORS**

LINEA BOXED 30 LED	80
LINEA BOXED 60 LED	81
LINEA BOXED	82
LINEA CLIP	84
LINEA IP	86
LINEA FLAT 33LED	87
LINEA BOXED 33LED	88
LINEA BOXED 33LED IP65	89
PIXEL 33LED	90
2x2 OPTICAL MODULES - STREET	92
2x2 OPTICAL MODULES - HIGH-BAY	94
4x4 FLEX LENS - HIGH-BAY	96
4x4 FLEX LENS - STREET	97
6x2 LENSES FOR IP65 STREET APPLICATIONS	98
6x2 LENSES FOR IP65 HIGH-BAY APPLICATIONS	100
6x2 SILICONE LENSES FOR IP65 APPLICATIONS	102
48 LENSES FOR IP65 HIGH-BAY	104
ARENA 48	105
STADIUM 48	106
STRATOS	108
TARGET	109



Page  
Pagina

### 5 LED SPOTS

LED SPOTS 600 GEN 3

112

LED SPOTS 1000 GEN 3

113

TECHNICAL INFORMATION - INFORMAZIONI TECNICHE

info4

WARRANTY - GARANZIA

info8

HOW TO REACH US - COME RAGGIUNGERCI

The product images are purely indicative - Le immagini dei prodotti sono puramente indicative



**Indice per CODICE**

Article Articolo	Code Codice	Page Pagina	Article Articolo	Code Codice	Page Pagina
SM280/55E33	128023/830BB	30	LM140/20E16	128227/850H	8
SM280/55E33	128023/830H	16	FM490/233E60	128231/830BB	42
SM280/55E33	128023/840BB	30	FM490/233E60	128231/840BB	42
SM280/55E33	128023/840H	16	FM490/233E60	128231/850BB	42
SM280/55E33	128023/850BB	30	SM280/55E33L	128240/830BB	30
SM280/55E33	128023/850H	16	SM280/55E33L	128240/830H	16
LM280/20E16	128038/830BB	18	SM280/55E33L	128240/840BB	30
LM280/20E16	128038/830H	4	SM280/55E33L	128240/840H	16
LM280/20E16	128038/840BB	18	SM280/55E33L	128240/850BB	30
LM280/20E16	128038/840H	4	SM280/55E33L	128240/850H	16
LM280/20E16	128038/850BB	18	LM560/20E64	128294/8T3BB	36
LM280/20E16	128038/850H	4	RM522E98	128306/830H	52
LM560/20E32	128039/830BB	18	RM522E98	128306/840H	52
LM560/20E32	128039/830H	4	RM522E98	128306/850H	52
LM560/20E32	128039/840BB	18	LM280/20E24	128319/830BB	20
LM560/20E32	128039/840H	4	LM280/20E24	128319/830H	6
LM560/20E32	128039/850BB	18	LM280/20E24	128319/840BB	20
LM560/20E32	128039/850H	4	LM280/20E24	128319/840H	6
LM560/20E64	128082/830BB	22	LM280/20E24	128319/850BB	20
LM560/20E64	128082/830H	8	LM280/20E24	128319/850H	6
LM560/20E64	128082/840BB	22	LM560/20E48	128320/830BB	20
LM560/20E64	128082/840H	8	LM560/20E48	128320/830H	6
LM560/20E64	128082/850BB	22	LM560/20E48	128320/840BB	20
LM560/20E64	128082/850H	8	LM560/20E48	128320/840H	6
LM280/20E32	128083/830BB	22	LM560/20E48	128320/850BB	20
LM280/20E32	128083/830H	8	LM560/20E48	128320/850H	6
LM280/20E32	128083/840BB	22	LM280/20E32	128341/8T3BB	36
LM280/20E32	128083/840H	8	RM812E252	128342/830H	52
LM280/20E32	128083/850BB	22	RM812E252	128342/840H	52
LM280/20E32	128083/850H	8	RM812E252	128342/850H	52
LM140/20E8	128117/830BB	18	RM1072E140	128343/830H	52
LM140/20E8	128117/830H	4	RM1072E140	128343/840H	52
LM140/20E8	128117/840BB	18	RM1072E140	128343/850H	52
LM140/20E8	128117/840H	4	RM320E85	128344/830H	50
LM140/20E8	128117/850BB	18	RM320E85	128344/840H	50
LM140/20E8	128117/850H	4	RM320E85	128344/850H	50
FM250/245E30	128122/830BB	42	SLM146/45H12	128351/727I	66
FM250/245E30	128122/840BB	42	SLM146/45H12	128351/730I	66
FM250/245E30	128122/850BB	42	SLM146/45H12	128351/740I	66
LM280/40E30	128201/830BB	28	SLM146/45H12	128351/750I	66
LM280/40E30	128201/830H	14	SM560/55E66	128400/830BB	30
LM280/40E30	128201/840BB	28	SM560/55E66	128400/830H	16
LM280/40E30	128201/840H	14	SM560/55E66	128400/840BB	30
LM280/40E30	128201/850BB	28	SM560/55E66	128400/840H	16
LM280/40E30	128201/850H	14	SM560/55E66	128400/850BB	30
LM560/40E60	128202/830BB	28	SM560/55E66	128400/850H	16
LM560/40E60	128202/830H	14	SM560/55E66L	128445/830BB	30
LM560/40E60	128202/840BB	28	SM560/55E66L	128445/830H	16
LM560/40E60	128202/840H	14	SM560/55E66L	128445/840BB	30
LM560/40E60	128202/850BB	28	SM560/55E66L	128445/840H	16
LM560/40E60	128202/850H	14	SM560/55E66L	128445/850BB	30
LM140/20E16	128227/830BB	22	SM560/55E66L	128445/850H	16
LM140/20E16	128227/830H	8	LM1120/20E64	128448/830BB	18
LM140/20E16	128227/840BB	22	LM1120/20E64	128448/830H	4
LM140/20E16	128227/840H	8	LM1120/20E64	128448/840BB	18
LM140/20E16	128227/850BB	22	LM1120/20E64	128448/840H	4

**Indice per CODICE**

Article Articolo	Code Codice	Page Pagina	Article Articolo	Code Codice	Page Pagina
LM1120/20E64	128448/850BB	18	LM559/20E48	128472/830BB	26
LM1120/20E64	128448/850H	4	LM559/20E48	128472/830H	12
LM1120/20E128	128449/830BB	22	LM559/20E48	128472/840BB	26
LM1120/20E128	128449/830H	8	LM559/20E48	128472/840H	12
LM1120/20E128	128449/840BB	22	LM559/20E48	128472/850BB	26
LM1120/20E128	128449/840H	8	LM559/20E48	128472/850H	12
LM1120/20E128	128449/850BB	22	LM279/20E24	128473/830BB	26
LM1120/20E128	128449/850H	8	LM279/20E24	128473/830H	12
LM1120/20E96	128453/830BB	20	LM279/20E24	128473/840BB	26
LM1120/20E96	128453/830H	6	LM279/20E24	128473/840H	12
LM1120/20E96	128453/840BB	20	LM279/20E24	128473/850BB	26
LM1120/20E96	128453/840H	6	LM279/20E24	128473/850H	12
LM1120/20E96	128453/850BB	20	LM279/20E24	128474/830BB	26
LM1120/20E96	128453/850H	6	LM279/20E24	128474/830H	12
LM1400/20E80	128459/830BB	18	LM279/20E24	128474/840BB	26
LM1400/20E80	128459/830H	4	LM279/20E24	128474/840H	12
LM1400/20E80	128459/840BB	18	LM279/20E24	128474/850BB	26
LM1400/20E80	128459/840H	4	LM279/20E24	128474/850H	12
LM1400/20E80	128459/850BB	18	SLM70/50H4	128497/730I	60
LM1400/20E80	128459/850H	4	SLM70/50H4	128497/740I	60
LM1400/20E160	128460/830BB	22	SLM70/50H4	128497/750I	60
LM1400/20E160	128460/830H	8	SLM121/50H8	128498/730I	60
LM1400/20E160	128460/840BB	22	SLM121/50H8	128498/740I	60
LM1400/20E160	128460/840H	8	SLM121/50H8	128498/750I	60
LM1400/20E160	128460/850BB	22	SLM172/50H12	128499/730I	60
LM1400/20E160	128460/850H	8	SLM172/50H12	128499/740I	60
LM559/20E48	128467/830BB	24	SLM172/50H12	128499/750I	60
LM559/20E48	128467/830H	10	SLM224/50H16	128500/730I	60
LM559/20E48	128467/840BB	24	SLM224/50H16	128500/740I	60
LM559/20E48	128467/840H	10	SLM224/50H16	128500/750I	60
LM559/20E48	128467/850BB	24	SM270/254E144	128518/8T3BB	46
LM559/20E48	128467/850H	10	SM270/254E144	128518/8T3H	46
LM559/20E48	128468/830BB	24	LM1120/20E64	128611/830BB	18
LM559/20E48	128468/830H	10	LM1120/20E64	128611/830H	4
LM559/20E48	128468/840BB	24	LM1120/20E64	128611/840BB	18
LM559/20E48	128468/840H	10	LM1120/20E64	128611/840H	4
LM559/20E48	128468/850BB	24	LM1120/20E64	128611/850BB	18
LM559/20E48	128468/850H	10	LM1120/20E64	128611/850H	4
LM279/20E24	128469/830BB	24	LM1120/20E128	128612/830BB	22
LM279/20E24	128469/830H	10	LM1120/20E128	128612/830H	8
LM279/20E24	128469/840BB	24	LM1120/20E128	128612/840BB	22
LM279/20E24	128469/840H	10	LM1120/20E128	128612/840H	8
LM279/20E24	128469/850BB	24	LM1120/20E128	128612/850BB	22
LM279/20E24	128469/850H	10	LM1120/20E128	128612/850H	8
LM279/20E24	128470/830BB	24	LM1120/20E96	128614/830BB	20
LM279/20E24	128470/830H	10	LM1120/20E96	128614/830H	6
LM279/20E24	128470/840BB	24	LM1120/20E96	128614/840BB	20
LM279/20E24	128470/840H	10	LM1120/20E96	128614/840H	6
LM279/20E24	128470/850BB	24	LM1120/20E96	128614/850BB	20
LM279/20E24	128470/850H	10	LM1120/20E96	128614/850H	6
LM559/20E48	128471/830BB	26	LM280/20E16	128620/830BB	18
LM559/20E48	128471/830H	12	LM280/20E16	128620/830H	4
LM559/20E48	128471/840BB	26	LM280/20E16	128620/840BB	18
LM559/20E48	128471/840H	12	LM280/20E16	128620/840H	4
LM559/20E48	128471/850BB	26	LM280/20E16	128620/850BB	18
LM559/20E48	128471/850H	12	LM280/20E16	128620/850H	4

**Indice per CODICE**

Article Articolo	Code Codice	Page Pagina	Article Articolo	Code Codice	Page Pagina
LM560/20E32	128621/830BB	18	FM510/260E112	128710/850BB	44
LM560/20E32	128621/830H	4	SLM224/50Y64	128725/830V	64
LM560/20E32	128621/840BB	18	SLM224/50Y64	128725/840V	64
LM560/20E32	128621/840H	4	SLM224/50Y64	128725/850V	64
LM560/20E32	128621/850BB	18	SLM121/50Y32	128734/830V	64
LM560/20E32	128621/850H	4	SLM121/50Y32	128734/840V	64
LM280/20E24	128622/830BB	20	SLM121/50Y32	128734/850V	64
LM280/20E24	128622/830H	6	SLM170/170H48	128743/730I	70
LM280/20E24	128622/840BB	20	SLM170/170H48	128743/740I	70
LM280/20E24	128622/840H	6	SLM170/170H48	128743/750I	70
LM280/20E24	128622/850BB	20	SLM193/145G48	128758/730CV	68
LM280/20E24	128622/850H	6	SLM193/145G48	128758/740CV	68
LM560/20E48	128623/830BB	20	SLM193/145G48	128758/750CV	68
LM560/20E48	128623/830H	6	SLM172/50Y48	128788/830V	64
LM560/20E48	128623/840BB	20	SLM172/50Y48	128788/840V	64
LM560/20E48	128623/840H	6	SLM172/50Y48	128788/850V	64
LM560/20E48	128623/850BB	20	SLM70/50Y16	128793/830V	64
LM560/20E48	128623/850H	6	SLM70/50Y16	128793/840V	64
LM280/20E32	128624/830BB	22	SLM70/50Y16	128793/850V	64
LM280/20E32	128624/830H	8	LM279/22E48	128797/8T3BB	38
LM280/20E32	128624/840BB	22	LM559/22E96	128798/8T3BB	38
LM280/20E32	128624/840H	8	FM255/260E56	128803/830BB	44
LM280/20E32	128624/850BB	22	FM255/260E56	128803/840BB	44
LM280/20E32	128624/850H	8	FM255/260E56	128803/850BB	44
LM560/20E64	128625/830BB	22	RM50E30	128811/830H	48
LM560/20E64	128625/830H	8	RM50E30	128811/840H	48
LM560/20E64	128625/840BB	22	RM50E30	128811/850H	48
LM560/20E64	128625/840H	8	RM225Y320	128815/830AP	76
LM560/20E64	128625/850BB	22	RM225E320	128815/830BB	76
LM560/20E64	128625/850H	8	RM225Y320	128815/840AP	76
LM1400/20E120	128661/830BB	20	RM225E320	128815/840BB	76
LM1400/20E120	128661/830H	6	RM225Y320	128815/850AP	76
LM1400/20E120	128661/840BB	20	RM225E320	128815/850BB	76
LM1400/20E120	128661/840H	6	RM80E44	128839/830H	48
LM1400/20E120	128661/850BB	20	RM80E44	128839/840H	48
LM1400/20E120	128661/850H	6	RM80E44	128839/850H	48
LM1400/20E80	128678/830BB	18	RM120E55	128877/830H	48
LM1400/20E80	128678/830H	4	RM120E55	128877/840H	48
LM1400/20E80	128678/840BB	18	RM120E55	128877/850H	48
LM1400/20E80	128678/840H	4	LM70/20E4	128899/830BB	18
LM1400/20E80	128678/850BB	18	LM70/20E4	128899/830H	4
LM1400/20E80	128678/850H	4	LM70/20E4	128899/840BB	18
LM1400/20E120	128679/830BB	20	LM70/20E4	128899/840H	4
LM1400/20E120	128679/830H	6	LM70/20E4	128899/850BB	18
LM1400/20E120	128679/840BB	20	LM70/20E4	128899/850H	4
LM1400/20E120	128679/840H	6	LM70/20E8	128900/830BB	22
LM1400/20E120	128679/850BB	20	LM70/20E8	128900/830H	8
LM1400/20E120	128679/850H	6	LM70/20E8	128900/840BB	22
LM1400/20E160	128680/830BB	22	LM70/20E8	128900/840H	8
LM1400/20E160	128680/830H	8	LM70/20E8	128900/850BB	22
LM1400/20E160	128680/840BB	22	LM70/20E8	128900/850H	8
LM1400/20E160	128680/840H	8	SLM70/50G4	128901/727CV	62
LM1400/20E160	128680/850BB	22	SLM70/50G4	128901/730CV	62
LM1400/20E160	128680/850H	8	SLM70/50G4	128901/740CV	62
FM510/260E112	128710/830BB	44	SLM70/50G4	128901/750CV	62
FM510/260E112	128710/840BB	44	SLM121/50G8	128902/727CV	62

**Indice per CODICE**

Article Articolo	Code Codice	Page Pagina	Article Articolo	Code Codice	Page Pagina
SLM121/50G8	128902/730CV	62	LM140/20E12	128981/840BB	20
SLM121/50G8	128902/740CV	62	LM140/20E12	128981/840H	6
SLM121/50G8	128902/750CV	62	LM140/20E12	128981/850BB	20
SLM172/50G12	128903/727CV	62	LM140/20E12	128981/850H	6
SLM172/50G12	128903/730CV	62	LM140/20E12	128982/830BB	20
SLM172/50G12	128903/740CV	62	LM140/20E12	128982/830H	6
SLM172/50G12	128903/750CV	62	LM140/20E12	128982/840BB	20
SLM224/50G16	128904/727CV	62	LM140/20E12	128982/840H	6
SLM224/50G16	128904/730CV	62	LM140/20E12	128982/850BB	20
SLM224/50G16	128904/740CV	62	LM140/20E12	128982/850H	6
SLM224/50G16	128904/750CV	62	LM140/20E8	128983/830BB	18
RM802E176	128912/830AX	56	LM140/20E8	128983/830H	4
RM802E176	128912/840AX	56	LM140/20E8	128983/840BB	18
RM802E176	128912/850AX	56	LM140/20E8	128983/840H	4
LM139/20E12	128922/830BB	24	LM140/20E8	128983/850BB	18
LM139/20E12	128922/830H	10	LM140/20E8	128983/850H	4
LM139/20E12	128922/840BB	24	SLM136/136H48	128984/730I	72
LM139/20E12	128922/840H	10	SLM136/136H48	128984/740I	72
LM139/20E12	128922/850BB	24	SLM136/136H48	128984/750I	72
LM139/20E12	128922/850H	10	RM255Y318	128985/830AP	74
LM139/20E12	128924/830BB	24	RM255E318	128985/830BB	74
LM139/20E12	128924/830H	10	RM255Y318	128985/840AP	74
LM139/20E12	128924/840BB	24	RM255E318	128985/840BB	74
LM139/20E12	128924/840H	10	RM255Y318	128985/850AP	74
LM139/20E12	128924/850BB	24	RM255E318	128985/850BB	74
LM139/20E12	128924/850H	10	LM280/24E28	131007/830BB	32
RM420E286	128931/830AX	54	LM280/24E28	131007/840BB	32
RM420E286	128931/840AX	54	LM280/24E28	131007/850BB	32
RM420E286	128931/850AX	54	LM139/20E12	131131/830BB	26
RM522E220	128932/830AX	54	LM139/20E12	131131/830H	12
RM522E220	128932/840AX	54	LM139/20E12	131131/840BB	26
RM522E220	128932/850AX	54	LM139/20E12	131131/840H	12
RM1082E308	128933/830AX	56	LM139/20E12	131131/850BB	26
RM1082E308	128933/840AX	56	LM139/20E12	131131/850H	12
RM1082E308	128933/850AX	56	LM139/20E12	131132/830BB	26
SLM146/45G12	128935/727CV	66	LM139/20E12	131132/830H	12
SLM146/45G12	128935/730CV	66	LM139/20E12	131132/840BB	26
SLM146/45G12	128935/740CV	66	LM139/20E12	131132/840H	12
SLM146/45G12	128935/750CV	66	LM139/20E12	131132/850BB	26
SLM170/170H48	128960/730I	70	LM139/20E12	131132/850H	12
SLM170/170H48	128960/740I	70	LM280/23E14	131181/830BB	34
SLM170/170H48	128960/750I	70	LM280/23E14	131181/840BB	34
RM160E78	128964/830H	50	LM280/23E14	131181/850BB	34
RM160E78	128964/840H	50	LM560/24E56	131287/830BB	32
RM160E78	128964/850H	50	LM560/24E56	131287/840BB	32
RM220E143	128965/830H	50	LM560/24E56	131287/850BB	32
RM220E143	128965/840H	50	LM1120/24E112	131288/830BB	32
RM220E143	128965/850H	50	LM1120/24E112	131288/840BB	32
LM140/20E16	128979/830BB	22	LM1120/24E112	131288/850BB	32
LM140/20E16	128979/830H	8	LED SPOT 600 CRI 80	131296/830/20	112
LM140/20E16	128979/840BB	22	LED SPOT 600 CRI 80	131296/830/35	112
LM140/20E16	128979/840H	8	LED SPOT 600 CRI 80	131296/830/55	112
LM140/20E16	128979/850BB	22	LED SPOT 600 CRI 80	131296/840/20	112
LM140/20E16	128979/850H	8	LED SPOT 600 CRI 80	131296/840/35	112
LM140/20E12	128981/830BB	20	LED SPOT 600 CRI 80	131296/840/55	112
LM140/20E12	128981/830H	6	LED SPOT 600 CRI 90	131296/930/20	112

**Indice per CODICE**

Article Articolo	Code Codice	Page Pagina	Article Articolo	Code Codice	Page Pagina
LED SPOT 600 CRI 90	131296/930/35	112	<b>Accessories - Accessori</b>		
LED SPOT 600 CRI 90	131296/930/55	112	DIFFUSER PMMA 280	128998/280	5
LED SPOT 600 CRI 90	131296/940/20	112	DIFFUSER PMMA 560	128998/560	5
LED SPOT 600 CRI 90	131296/940/35	112	DIFFUSER PMMA 1120	128998/1120	5
LED SPOT 600 CRI 90	131296/940/55	112	DIFFUSER PMMA 1400	128998/1400	5
LED SPOT 1000 CRI 80	131297/830/20	114	FIXING CAPS AND CLIPS KIT	128999	5
LED SPOT 1000 CRI 80	131297/830/35	114	2x2 ASYMMETRIC	468780051	92
LED SPOT 1000 CRI 80	131297/830/55	114	2x2 ELLIPTIC	468780052	92
LED SPOT 1000 CRI 80	131297/840/20	114	2x2 IESNA TYPE:VS SHORT 120° SYMM	468780053	92
LED SPOT 1000 CRI 80	131297/840/35	114	2x2 IESNA TYPE:I	468780054	92
LED SPOT 1000 CRI 80	131297/840/55	114	2x2 IESNA TYPE:II ECE ME3A	468780055	92
LED SPOT 1000 CRI 90	131297/930/20	114	2x2 IESNA TYPE:V	468780056	92
LED SPOT 1000 CRI 90	131297/930/35	114	2x2 IESNA TYPE:III	468780057	92
LED SPOT 1000 CRI 90	131297/930/55	114	2x2 IESNA TYPE:IV	468780058	92
LED SPOT 1000 CRI 90	131297/940/20	114	2x2 IESNA TYPE:V	468780059	93
LED SPOT 1000 CRI 90	131297/940/35	114	2x2 IESNA TYPE II / TYPE III	468780061	93
LED SPOT 1000 CRI 90	131297/940/55	114	2x2 IESNA TYPE:II	468780062	93
			2x2 IESNA TYPE:III	468780063	93
			6x2 HIGH-BAY 60° FWHM	468780094	100
			6x2 HIGH-BAY 90° FWHM	468780095	100
			6x2 HIGH-BAY 120° FWHM	468780096	100
			6x2 HIGH-BAY 130° FWHM SQUARE	468780097	100
			6x2 STREET IESNA TYPE III	468780098	98
			6x2 STREET IESNA TYPE I	468780099	98
			6x2 STREET IESNA TYPE V - 120° FWHM	468780101	98
			6x2 STREET IESNA TYPE II - ME3A	468780102	98
			6x2 STREET IESNA TYPE III	468780103	98
			6x2 STREET IESNA TYPE II	468780104	98
			6x2 STREET IESNA TYPE III	468780105	98
			GASKET FOR IP65	468780106	98
			LINEA FLAT 33LED 30°	468780112	87
			LINEA FLAT 33LED 60°	468780113	87
			LINEA FLAT 33LED 90°	468780114	87
			LINEA FLAT 33LED D. ASYM	468780115	87
			48 IP65 HIGH-BAY 90°	468780133	104
			48 IP65 HIGH-BAY 120°	468780134	104
			LINEA BOXED 33LED 30°	468780143	88
			LINEA BOXED 33LED 60°	468780144A	88
			LINEA BOXED 33LED 90°	468780145A	88
			LINEA BOXED 33LED D. ASYM	468780146A	88
			LINEA BOXED 30°	468780147	82
			LINEA BOXED 60°	468780148	82
			LINEA BOXED 90°	468780149	82
			LINEA BOXED D. ASYM	468780151	82
			GASKET FOR IP65	468780166	104
			48 IP65 HIGH-BAY ASY	468780167	104
			48 IP65 HIGH-BAY ASY - ROTATED	468780167A	104
			2x2 TYPE II OPTIMIZE FOR LED 5050	468780173	93
			6x2 SILICONE 130° - IESNA TYPE V	468780174	102
			6x2 SILICONE IESNA TYPE II	468780175	102
			6x2 SILICONE IESNA TYPE III - ME3A	468780176	102
			6x2 SILICONE IESNA TYPE II	468780177	102
			6x2 SILICONE IESNA TYPE III - ME3A	468780178	102
			LENS HOLDER WHITE	468780179	102
			LINEA BOXED 30 LED STANDARD	468780209	80

**Indice per CODICE**

Article Articolo	Code Codice	Page Pagina	Article Articolo	Code Codice	Page Pagina
LINEA BOXED 30 LED DIFFUSE	468780211	80	2x2 9°	468780308	94
LINEA BOXED 30 LED EXTRA WIDE 90°	468780212	80	2x2 25°	468780309	94
LINEA BOXED 30 LED WIDE 60°	468780213	80	2x2 50°	468780311	94
LINEA BOXED 30 LED NARROW 30°	468780214	80	2x2 165°	468780317	94
LINEA BOXED 30 LED RETAIL SYM	468780215	80	2x2 165°	468780318	95
LINEA BOXED 30 LED RETAIL ASYM	468780216	80	6x2 30°	468780323	100
LINEA BOXED 30 LED HIGH RACK	468780217	80	6x2 60°	468780324	100
LINEA BOXED 60 LED STANDARD	468780218	81	6x2 90°	468780325	101
LINEA BOXED 60 LED RETAIL SYM	468780219	81	6x2 150°	468780326	101
CAPS FOR LENS LINEA BOXED 30 LED	468780222	80	GASKET FOR IP65	468780332	100
Fixing Clip FOR LENS LINEA BOXED	468780223	80	PIXEL 3x11 30° ASY	468780333	90
Fixing Clip FOR LENS LINEA BOXED	468780224	80	PIXEL 3x11 60° DA	468780334	90
LINEA CLIP 30°	468780231	84	PIXEL 3x11 ME	468780335	90
LINEA CLIP 60°	468780232	84	PIXEL 3x11 60° EXSTRA WIDE	468780336	90
LINEA CLIP 90°	468780233	84	PIXEL 3x11 90° ULTRA WIDE	468780337	90
LINEA CLIP 20° ASYM	468780234	84	4x4 SYM 30°	468780339	96
LINEA CLIP ±20° D. ASYM	468780235	84	4x4 SYM 60°	468780342	96
CAPS FOR LENS LINEA CLIP - GREY	468780236	85	4x4 SYM 95°	468780343	96
CAPS FOR LENS LINEA CLIP - TRANSPARENT	468780236T	85	4x4 SYM 30°x100°	468780344	97
2x2 IESNA TYPE CROSSWALKS	468780238	93	4x4 ASYM ST ECE ME NARROW	468780345	97
2x2 CROSSWALKS	468780239	93	4x4 ASYM ST ECE ME	468780346	97
SILICONE GASKET FOR IP65	468780241	106	4x4 ASYM ST IESNA TYPE I	468780347	97
STADIUM 48 15°	468780242	106	4x4 ASYM ST IESNA TYPE II	468780348	97
STADIUM 48 23°	468780243	106	4x4 ASYM ST IESNA TYPE III	468780349	97
STADIUM 48 40°	468780244	106	4x4 ASYM ST IESNA TYPE Vs	468780351	97
STADIUM 48 130°x110°	468780245	106	4x4 110°x50°	468780352	97
2x2 IESNA TYPE II / III	468780246	93	STRATOS EL	468780359	108
2x2 IESNA TYPE II / III	468780253	93	STRATOS 60°	468780361	108
2x2 IESNA TYPE I	468780254	93	STRATOS 90°	468780362	108
2x2 IESNA TYPE IV	468780255	93	ARENA 48 8,5°	468780363	105
6x2 STREET IESNA TYPE III	468780261	98	ARENA 48 19°	468780364	105
6x2 STREET IESNA TYPE II	468780262	99	ARENA 48 50°	468780365	105
6x2 STREET IESNA TYPE III	468780263	99	ARENA 48 80°	468780366	105
6x2 STREET IESNA TYPE II	468780264	99	ARENA 48 38°	468780367	105
6x2 STREET IESNA TYPE II MEDIUM	468780265	99	ARENA 48 120°x95°	468780368	105
6x2 NARROW BEAM 15	468780266	100	ARENA 48 COVER	468780369	105
6x2 WIDE BEAM 34	468780267	100	ARENA 48 COVER	468780371	105
TARGET 60°	468780272	109	ARENA 48 COVER	468780372	105
TARGET 90°	468780273	109	4x4 SYM 55°	468780373	96
LINEA IP 30°	468780274	86	4x4 SYM 90°	468780374	96
LINEA IP 60°	468780275	86	4x4 SYM 150°	468780375	96
LINEA IP 90°	468780276	86	CAPS FOR LENS LINEA BOXED	488787434	82
LINEA IP ASYM	468780277	86	PLASTIC END PLUGS	488787435	88
LINEA IP D. ASYM	468780278	86	THERMAL PAD 47x148,4mm / SP 0,2 mm	489822281	67
SILICONE GASKET	468780279	86	THERMAL PAD 193x145 mm / SP 0,2 3mm	489822286	69
GASKET FOR IP65	468780282	109	THERMAL PAD 70x49 mm / SP 0,23 mm	489822290	61
2x2 IESNA TYPE II MEDIUM ME3	468780283	93	THERMAL PAD 121x49 mm / SP 0,23 mm	489822291	61
2x2 90°	468780296	94	THERMAL PAD 172x49 mm / SP 0,23 mm	489822292	61
2x2 25°	468780299	95	THERMAL PAD 223x49 mm / SP 0,23 mm	489822293	61
2x2 40°	468780301	95			
2x2 60°	468780302	95			
LINEA BOXED 33LED IP65 25°	468780303	89			
LINEA BOXED 33LED IP65 60°	468780304	89			
LINEA BOXED 33LED IP65 90°	468780305	89			
GASKET FOR IP65	468780306	89			
2x2 60°	468780307	94			



## Descrizione dei simboli



Product recommended for residential applications.  
Prodotto consigliato per uso residenziale.



Product recommended for office applications.  
Prodotto consigliato per uffici.



Product recommended for retail applications.  
Prodotto consigliato per spazi commerciali.



The most competitive solution, the perfect compromise between cost and performance.

La soluzione più competitiva, il perfetto compromesso tra costo e prestazioni.



The top-line solution, the perfect balancing between cost and top performance.

La soluzione top di gamma, il perfetto bilanciamento tra costo e prestazioni elevate.



Colour temperature combination (2700/6500K).  
Miscelazione temperature di colore (2700/6500K).



UL 94, the Standard for Safety of Flammability of Plastic Materials for Parts in Devices and Appliances testing. **HB**: slow burning on a horizontal specimen; burning rate < 76 mm/min for thickness < 3 mm or burning stops before 100 mm.

UL 94, lo standard per la sicurezza dell'infiammabilità dei materiali plastici per le parti nei test su dispositivi ed elettrodomestici. **HB**: combustione lenta su un campione orizzontale; velocità di combustione < 76 mm/min per spessore < 3 mm o arresti della combustione prima di 100 mm.



10 years Lenses No Yellowing Warranty. Only best materials used.  
10 anni di Garanzia Anti Ingiallimento delle Lenti. Impiego dei soli migliori materiali.



Product recommended for industrial applications.  
Prodotto consigliato per applicazioni industriali.



Product recommended for street applications.  
Prodotto consigliato per applicazioni stradali.



Product recommended for outdoor applications.  
Prodotto consigliato per spazi esterni.



Max. efficacy (lm/W).  
Efficienza massima (lm/W).



- L80B20 >XX'XXX h: the 20% of the LEDs will have a light output equal to 80% of the initial lumens at X hours.  
Il 20% dei LED avrà una emissione luminosa pari all'80% dei lumen iniziali a X ore.



- L90B10 >XX'XXX h: the 10% of the LEDs will have a light output equal to 90% of the initial lumens at X hours.  
Il 10% dei LED avrà una emissione luminosa pari al 90% dei lumen iniziali a X ore.



ONLY FOR LENSES - SOLO PER LENTI  
IP6X = Dust-tight – Totalmente protetto contro la polvere.  
IPX5 = Protected against water jets – Protetto contro i getti d'acqua.



The IK rating, also called IK protection, is a code stating the level of mechanical shocks resistancy of the housings which protect the electronic components of a device. The IK rating shall be stated also for all the lighting devices and shall comply with all the provisions of CEI EN 62262 Norm, 2008. The presence of the IK rating provides a further warranty on the product and its reliability.

Il grado IK, detto anche protezione IK, è un codice che indica il livello di resistenza agli urti meccanici offerto dagli involucri che proteggono i componenti elettronici di un dispositivo. Il grado IK può e deve essere indicato anche in tutti i dispositivi di illuminazione e deve rispondere alle prescrizioni indicate dalla norma CEI EN 62262 del 2008. La presenza del codice di protezione IK fornisce un'ulteriore garanzia sul prodotto e sulla sua reale affidabilità.



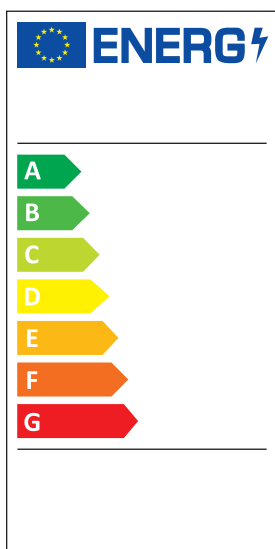
### Descrizione dei simboli



LED MODULES Performance Requirements.  
According to EN 62717:2017

SELV module ( $V < 60 V$ ). Suitable for NON-SELV applications: distance between the voltage area and the board edge  $\geq 2,7$  mm.  
Modulo SELV ( $V < 60 V$ ). Idoneo per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda  $\geq 2,7$  mm.

NON-SELV modules ( $V > 60 V$ ) - Moduli NON SELV ( $V > 60 V$ ).



REGULATION (EU) 2017 / 1369

#### WHAT IS EPREL?

As of 1 January 2019, Suppliers (manufacturers, importers or authorized representatives) need to register their product models, which require an energy label, in the European Product Registry for Energy Labelling (EPREL), before placing on the EU/EEA market the first product of a model in the scope of the Labelling legislation. EPREL represents the platform that Suppliers must use for registering their product models.

For all catalog modules, registration on the Eprel portal will be paid by TCI.

#### COS'È EPREL?

A partire dal 1° gennaio 2019, i Fornitori (produttori, importatori o rappresentanti autorizzati) devono registrare i propri modelli di prodotto, che richiedono un'etichetta energetica, nel Registro Europeo dei prodotti per l'etichettatura energetica (EPREL), prima di immettere sul mercato UE/SEE il primo prodotto di un modello nell'ambito della legislazione sull'etichettatura. EPREL rappresenta la piattaforma che i Fornitori devono utilizzare per la registrazione dei propri modelli di prodotto.

Per tutti i moduli di catalogo la registrazione al portale Eprel sarà a carico di TCI.



# LINEAR LIGHTING

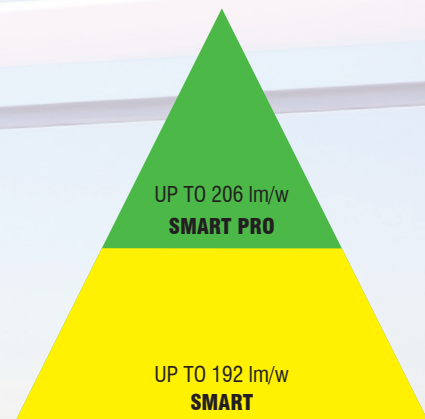
## Our passion for Lighting and Evolution

100% Made in Italy, manufactured with accurately selected components of the highest quality only. TCI linear LED modules are the result of our long experience and passion for lighting and evolution: our wide range covers all those applications traditionally belonging to fluorescent lighting. TCI linear solutions are divided into product families, grouped on the same page, on a "steps" basis to allow a perfect matching and thus ensuring very high luminous uniformity and maximum efficiency.

TCI offers series of LED modules to provide a complete customer-and-market oriented products range:

**Smart LED modules** are the most competitive solution, the perfect compromise between cost and performance. Our Smart modules guarantee a > 80.000 h lifetime.

**Smart Pro LED modules** are the top-line solution, the perfect balancing between cost and top performance. Our Smart Pro modules guarantee a > 80.000 h lifetime.



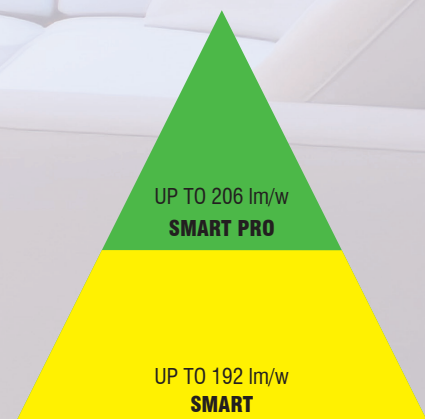
To complete our offer, we provide our Customers with a selection of first-class optics and lenses for linear solutions. All TCI modules are provided with a 7-10 years warranty as stated in the Warranty section of this catalogue and covered by the Decennial Producer Liability.

*100% Made in Italy, fabbricati unicamente con componenti di elevatissima qualità accuratamente selezionati, i moduli LED lineari TCI sono il risultato della nostra lunga esperienza e della passione per la luce e per l'evoluzione: la nostra gamma copre tutte le applicazioni tradizionalmente legate alla fluorescenza. Le soluzioni lineari TCI sono divise in sottofamiglie di prodotti raggruppati sulla stessa pagina in base agli "step" per garantire una perfetta combinazione ed assicurare elevatissima uniformità luminosa e massima efficienza.*

*Per garantire una gamma di prodotti completa ed orientata sia al cliente che al mercato, TCI offre diverse serie di moduli LED:*

*I moduli Smart sono la soluzione più competitiva, il perfetto compromesso tra costo e prestazioni. I nostri moduli Smart garantiscono un lifetime > 80.000 h.*

*I moduli Smart Pro sono la soluzione top di gamma, il perfetto bilanciamento tra costo e prestazioni elevate. I nostri moduli Smart Pro garantiscono un lifetime > 80.000 h.*



*A completamento della nostra offerta proponiamo ai nostri Clienti una selezione di ottiche e lenti di prima qualità per le nostre soluzioni lineari.*

*Tutti i moduli TCI sono provvisti di garanzia di 7-10 anni come indicato nella Sezione Garanzia del presente catalogo e sono coperti da Responsabilità Decennale del Produttore.*

SMART series - Linear modules

Made in Italy 

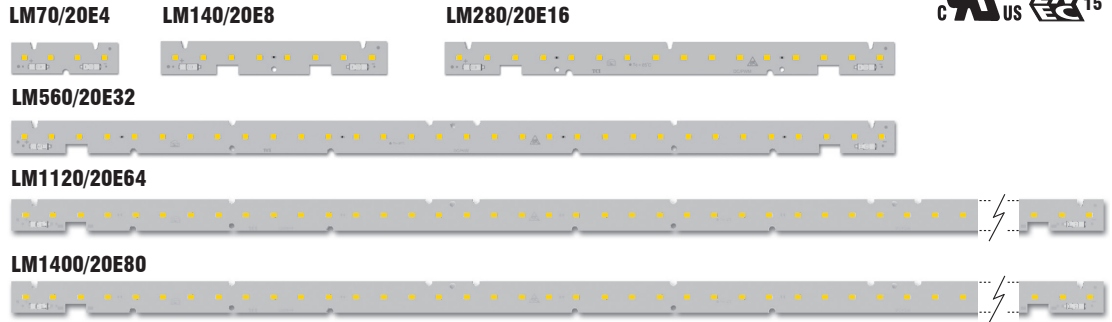
CE US  15

1.1

LINEAR LIGHTING



> 80.000 h @ tc=85 °C



**CRI**  
>80  
>90 available online

**Available (CCT) colour temperature**  
3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 °

**Ambient temperature ta:** -40...+55 °C  
(Only for tc ≤ 85 °C)

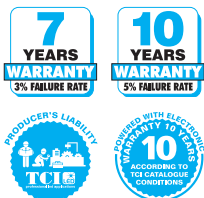
**Module temperature tc:** 85 °C

**Absolute maximum operating current:**  
800 mA

**Standards compliance**  
CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

Article Articolino	Code Codice	Connector Type	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. @Imin	Vmax. @Imax
LM70/20E4	128899/830H	Standard	3000	250	121	112	0,7	179	169	2,8	2,9
				350	164	151	1	171	161		
				500	223	207	1,4	160	150		
	128899/840H	Standard	4000	250	127	118	0,7	189	178		
				350	172	159	1	180	169		
				500	235	217	1,4	168	158		
	128899/850H	Standard	5000	250	129	119	0,7	192	181		
				350	175	162	1	182	172		
				500	239	220	1,4	171	160		
LM140/20E8	128117/830H	Standard	3000	250	241	223	1,3	179	169	5,6	5,8
				350	327	303	1,9	171	161		
				500	447	413	2,7	160	150		
	128117/840H	Standard	4000	250	254	235	1,3	189	178		
				350	345	319	1,9	180	169		
				500	470	435	2,7	168	158		
	128117/850H	Standard	5000	250	258	238	1,3	192	181		
				350	350	323	1,9	182	172		
				500	477	441	2,7	171	160		
LM280/20E16	128038/830H	Standard	3000	250	483	447	2,6	179	169	11	12
				350	655	605	3,7	171	161		
				500	894	826	5,4	160	150		
	128038/840H	Standard	4000	250	508	470	2,6	189	178		
				350	689	637	3,7	180	169		
				500	941	870	5,4	168	158		
	128038/850H	Standard	5000	250	516	477	2,6	192	181		
				350	699	646	3,7	182	172		
				500	954	882	5,4	171	160		
LM560/20E32	128039/830H	Standard	3000	250	966	893	5,2	179	169	22	23,9
				350	1309	1211	7,5	171	161		
				500	1787	1652	11	160	150		
	128039/840H	Standard	4000	250	1017	940	5,2	189	178		
				350	1378	1275	7,5	180	169		
				500	1881	1739	11	168	158		
	128039/850H	Standard	5000	250	1031	954	5,2	192	181		
				350	1398	1293	7,5	182	172		
				500	1908	1764	11	171	160		
LM1120/20E64	128448/830H	Standard	3000	250	1932	1787	10,5	179	169	44	47,8
				350	2619	2422	15	171	161		
				500	3575	3304	22	160	150		
	128448/840H	Standard	4000	250	2033	1881	10,5	189	178		
				350	2757	2549	15	180	169		
				500	3763	3478	22	168	158		
	128448/850H	Standard	5000	250	2063	1908	10,5	192	181		
				350	2796	2586	15	182	172		
				500	3816	3528	22	171	161		
LM1400/20E80	128459/830H	Standard	3000	250	2415	2233	13,4	179	169	55	60
				350	3274	3027	19	171	161		
				500	4468	4130	27,4	160	150		
	128459/840H	Standard	4000	250	2542	2351	13,4	189	178		
				350	3446	3186	19	180	169		
				500	4703	4348	27,4	168	158		
	128459/850H	Standard	5000	250	2578	2385	13,4	192	181		
				350	3495	3232	19	182	172		
				500	4771	4410	27,4	171	161		

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



**Standard connector**  
Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.

**Reverse connector**  
Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.

**Solid conductor - Conduttore rigido**  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

7-9 mm

**Solid conductor - Conduttore rigido**  
Tinned wire ends within - Conduttore stagno di sezione

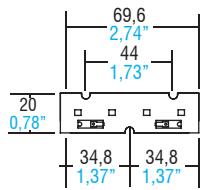
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup>

7-9 mm

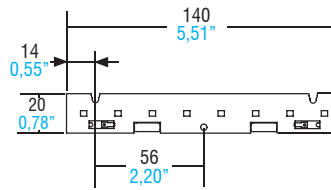
SMART series - Linear modules

Technical features - Caratteristiche tecniche

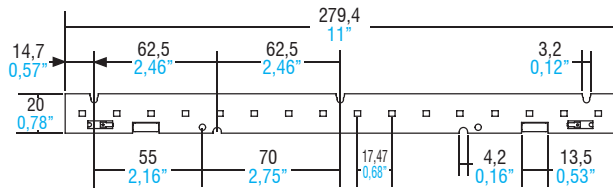
LM70/20E4 (Weight/Peso 0,21 oz. / gr. 6 - Pcs/Pezzi 216)



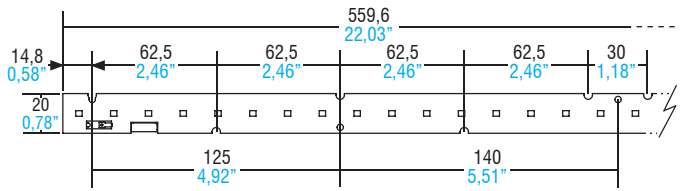
LM140/20E8 (Weight/Peso 0,32 oz. / gr. 9 - Pcs/Pezzi 144)



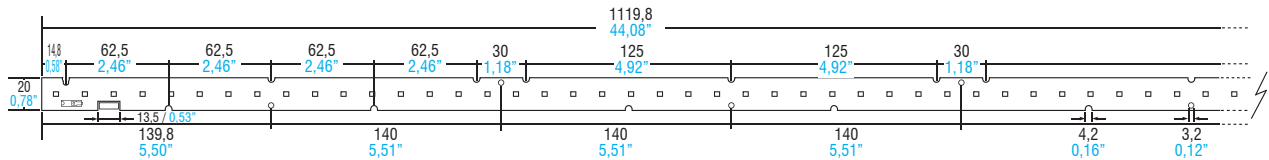
LM280/20E16 (Weight/Peso 0,63 oz. / gr. 18 - Pcs/Pezzi 72)



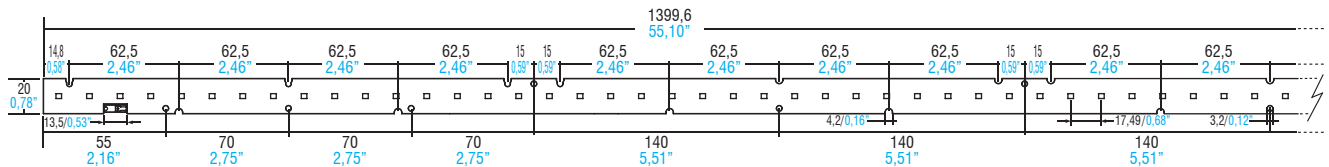
LM560/20E32 (Weight/Peso 1,27 oz. / gr. 36 - Pcs/Pezzi 72)



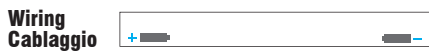
LM1120/20E64 (Weight/Peso 2,08 oz. / gr. 59 - Pcs/Pezzi 120)



LM1400/20E80 (Weight/Peso 3,20 oz. / gr. 91 - Pcs/Pezzi 120)



Zhaga compatible holes



**Accessories - Accessori**

**LINEA CLIP**  
280 mm / 1 ft

For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Beam Angle Angolo di orientamento	30°	60°	90°	20° ASYM	±20° Double asymmetric
Code - Codice	468780231	468780232	468780233	468780234	468780235

<b>CAPS FOR PMMA CLIP LENSES</b>	<b>Grey 468780236</b>	<b>Transparent 468780236T</b>
----------------------------------	-----------------------	-------------------------------

**Methacrylate (PMMA) diffuser cover. Cover efficiency 90%.  
Cover diffondente in metacrilato (PMMA). Efficienza cover 90%.**

Code - Codice	Length - Lunghezza
128998/280	280 mm / 1 ft
128998/560	560 mm / 2 ft
128998/1120	1120 mm / 4 ft
128998/1400	1400 mm / 5 ft

**KIT Testatine e Clip di fissaggio  
Fixing Caps and Clips KIT**

<b>Code - Codice</b>	128999
----------------------	--------

- Main features**
- Combinable high-quality modules for a smart, performant design. Ideal also for extensive applications. Perfect light uniformity.
  - Ideal for residential, office, retail and industrial lighting.
  - SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
  - Extended lifetime > 80.000 h.
  - High efficiency: up to 192 lm/W.
  - Minimum colour tolerance: 3MacAdam (3SDCM).
  - Push-in terminal blocks. Easy module fixing with screws.
  - Suitable for emergency applications with TCI inverters.
  - Only for professional use, not for final end user.
- For additional technical informations please visit our website: www.tci.it**

- Caratteristiche principali**
- Moduli combinabili di elevata qualità per un design smart e performante, anche estensivo. Luce perfettamente uniforme.
  - Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
  - Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
  - Lifetime esteso > 80.000 h.
  - Elevata efficienza: fino a 192 lm/W.
  - Minima tolleranza di colore: 3MacAdam (3SDCM).
  - Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
  - Moduli alimentabili in emergenza con inverter TCI.
  - Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.



> 80.000 h  
@ tc=85 °C



LM140/20E12

LM280/20E24



LM560/20E48



LM1120/20E96



LM1400/20E120



CRI

>80  
>90 available online

Available (CCT) colour temperature

3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

Beam angle  
120 °

Ambient temperature  
ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

Module temperature  
tc: 85 °C

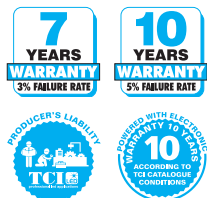
Absolute maximum operating current:  
800 mA

Standards compliance  
CSA-C22.2 no.250

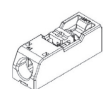
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

Article Articolino	Code Codice	Connector Type	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
LM140/20E12	128981/830H	Standard	3000	250	362	335	2	179	169	8,2	9
	128982/830H	Reverse		350	491	454	2,8	171	161		
	128981/840H	Standard	4000	250	381	353	2	189	178		
	128982/840H	Reverse		350	517	478	2,8	180	169		
	128981/850H	Standard	5000	250	387	358	2	192	181		
	128982/850H	Reverse		350	524	485	2,8	182	172		
LM280/20E24	128319/830H	Standard	3000	250	724	670	4	179	169	16,5	18
	128622/830H	Reverse		350	982	908	5,6	171	161		
	128319/840H	Standard	4000	250	763	705	4	189	178		
	128622/840H	Reverse		350	1034	956	5,6	180	169		
	128319/850H	Standard	5000	250	773	715	4	192	181		
	128622/850H	Reverse		350	1049	970	5,6	182	172		
LM560/20E48	128320/830H	Standard	3000	250	1449	1340	8	179	169	33	36
	128623/830H	Reverse		350	1964	1816	11,2	171	161		
	128320/840H	Standard	4000	250	1525	1411	8	189	178		
	128623/840H	Reverse		350	2068	1912	11,2	180	169		
	128320/850H	Standard	5000	250	1547	1431	8	192	181		
	128623/850H	Reverse		350	2097	1939	11,2	182	172		
LM1120/20E96	128453/830H	Standard	3000	250	2892	2680	16	179	169	66	71,7
	128614/830H	Reverse		350	3928	3633	22,5	171	161		
	128453/840H	Standard	4000	250	3050	2821	16	189	178		
	128614/840H	Reverse		350	4135	3824	22,5	180	169		
	128453/850H	Standard	5000	250	3094	2862	16	192	181		
	128614/850H	Reverse		350	4194	3878	22,5	182	172		
LM1400/20E120	128661/830H	Standard	3000	250	3622	3350	19,7	179	169	82,5	90
	128679/830H	Reverse		350	4910	4541	28,2	171	161		
	128661/840H	Standard	4000	250	3813	3527	19,7	189	178		
	128679/840H	Reverse		350	5169	4780	28,2	180	169		
	128661/850H	Standard	5000	250	3867	3577	19,7	192	181		
	128679/850H	Reverse		350	5243	4848	28,2	182	172		

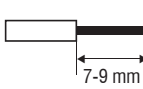
The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



Standard connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



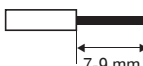
Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

Reverse connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



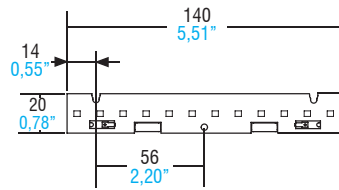
Solid conductor - Conduttore rigido  
Tinned wire ends within - Conduttore stagno di sezione

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup>

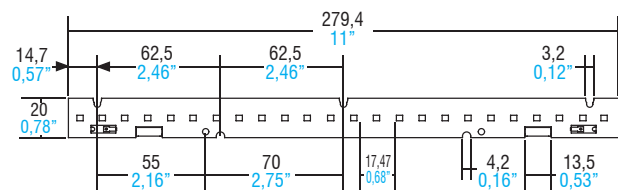
SMART series - Linear modules

Technical features - Caratteristiche tecniche

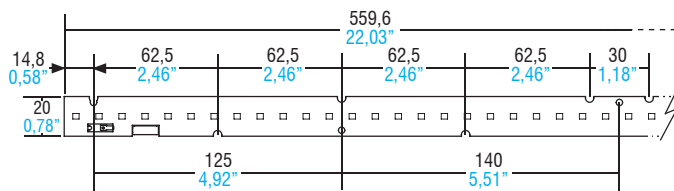
LM140/20E12 (Weight/Peso 0,32 oz. / gr. 9 - Pcs/Pezzi 144)



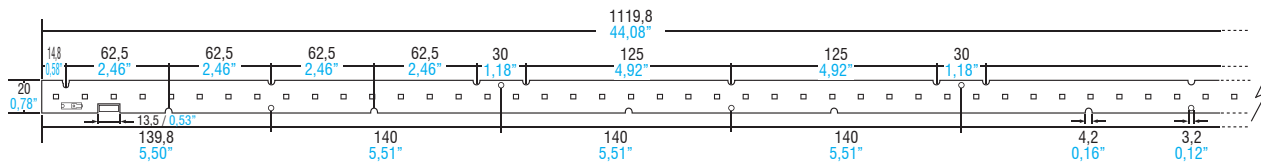
LM280/20E24 (Weight/Peso 0,63 oz. / gr. 18 - Pcs/Pezzi 72)



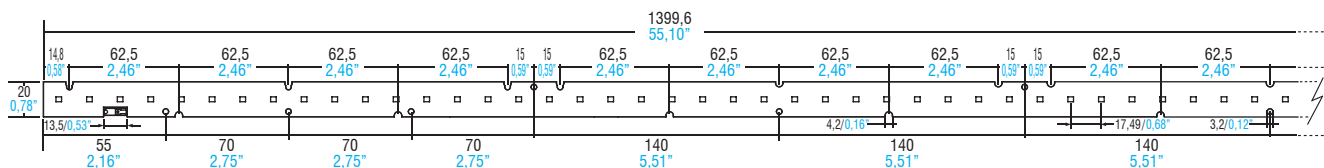
LM560/20E48 (Weight/Peso 1,30 oz. / gr. 37 - Pcs/Pezzi 72)



LM1120/20E96 (Weight/Peso 2,11 oz. / gr. 60 - Pcs/Pezzi 120)



LM1400/20E120 (Weight/Peso 3,24 oz. / gr. 92 - Pcs/Pezzi 120)



Zhaga compatible holes



**Accessories - Accessori**

**LINEA CLIP**  
280 mm / 1 ft

For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Beam Angle Angolo di orientamento	30°	60°	90°	20° ASYM	±20° Double asymmetric
Code - Codice	468780231	468780232	468780233	468780234	468780235

<b>CAPS FOR PMMA CLIP LENSES</b>	<b>Grey 468780236</b>	<b>Transparent 468780236T</b>
----------------------------------	-----------------------	-------------------------------

**Methacrylate (PMMA) diffuser cover. Cover efficiency 90%.  
Cover diffondente in metacrilato (PMMA). Efficienza cover 90%.**

Code - Codice	Length - Lunghezza
128998/280	280 mm / 1 ft
128998/560	560 mm / 2 ft
128998/1120	1120 mm / 4 ft
128998/1400	1400 mm / 5 ft

**KIT Testatine e Clip di fissaggio  
Fixing Caps and Clips KIT**

<b>Code - Codice</b>	128999
----------------------	--------

Main features

- Combinable high-quality modules for a smart, performant design. Ideal also for extensive applications. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > 80.000 h.
- High efficiency: up to 192 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e performante, anche estensivo. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 192 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

SMART series - Linear modules

Made in Italy

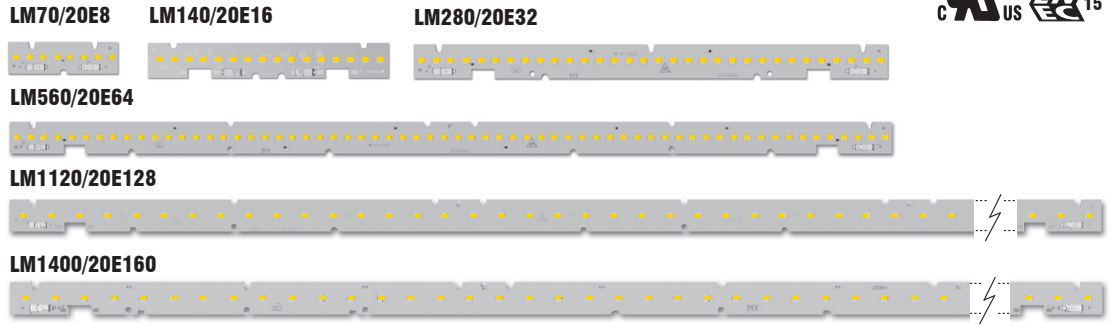


1.1

LINEAR LIGHTING



> 80.000 h @ tc=85 °C



**CRI**  
>80  
>90 available online

**Available (CCT) colour temperature**  
3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 °

**Ambient temperature ta:** -40...+55 °C  
(Only for tc ≤ 85 °C)

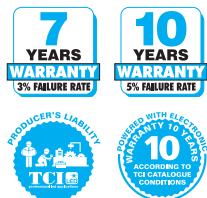
**Module temperature tc:** 85 °C

**Absolute maximum operating current:**  
800 mA

**Standards compliance**  
CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

Article Articolino	Code Codice	Connector Type	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
LM70/20E8	128900/830H	Standard	3000	250	241	223	1,3	179	169	5,5	6
				350	327	303	1,9	171	161		
				500	447	413	2,7	160	150		
	128900/840H	Standard	4000	250	254	235	1,3	189	178		
				350	345	319	1,9	180	169		
				500	470	435	2,7	168	158		
	128900/850H	Standard	5000	250	258	238	1,3	192	181		
				350	350	323	1,9	182	172		
				500	477	441	2,7	171	161		
LM140/20E16	128227/830H	Standard	3000	250	483	447	2,6	179	169	11	12
				350	655	605	3,7	171	161		
				500	894	826	5,4	160	150		
	128227/840H	Standard	4000	250	508	470	2,6	189	178		
				350	689	637	3,7	180	169		
				500	941	870	5,4	168	158		
	128227/850H	Standard	5000	250	516	477	2,6	192	181		
				350	699	646	3,7	182	172		
				500	954	882	5,4	171	161		
LM280/20E32	128083/830H	Standard	3000	250	966	893	5,3	179	169	22	23,9
				350	1309	1211	7,5	171	161		
				500	1787	1652	11	160	150		
	128083/840H	Standard	4000	250	1017	940	5,3	189	178		
				350	1378	1275	7,5	180	169		
				500	1881	1739	11	168	158		
	128083/850H	Standard	5000	250	1031	954	5,3	192	181		
				350	1398	1293	7,5	182	172		
				500	1908	1764	11	171	161		
LM560/20E64	128082/830H	Standard	3000	250	1932	1787	10,5	179	169	44	47,8
				350	2619	2422	15	171	161		
				500	3575	3304	22	160	150		
	128082/840H	Standard	4000	250	2033	1881	10,5	189	178		
				350	2757	2549	15	180	169		
				500	3763	3478	22	168	158		
	128082/850H	Standard	5000	250	2063	1908	10,5	192	181		
				350	2796	2586	15	182	172		
				500	3816	3528	22	171	161		
LM1120/20E128	128449/830H	Standard	3000	250	3864	3574	21	179	169	88	95,6
				350	5238	4843	30	171	161		
				500	7149	6609	44	160	150		
	128449/840H	Standard	4000	250	4067	3762	21	189	178		
				350	5513	5098	30	180	169		
				500	7525	6957	44	168	158		
	128449/850H	Standard	5000	250	4125	3815	21	192	181		
				350	5592	5171	30	182	172		
				500	7633	7056	44	171	161		
LM1400/20E160	128460/830H	Standard	3000	250	4830	4467	26,3	179	169	110	120
				350	6547	6054	37,5	171	161		
				500	8936	8261	54,8	160	150		
	128460/840H	Standard	4000	250	5084	4702	26,3	189	178		
				350	6892	6373	37,5	180	169		
				500	9407	8696	54,8	168	158		
	128460/850H	Standard	5000	250	5156	4769	26,3	192	181		
				350	6990	6464	37,5	182	172		
				500	9541	8820	54,8	171	161		

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



**Standard connector**  
Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.

**Reverse connector**  
Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.

**Solid conductor - Conduttore rigido**  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

7-9 mm

**Solid conductor - Conduttore rigido**  
Tinned wire ends within - Conduttore stagno di sezione

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup>

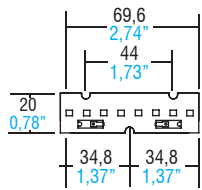
7-9 mm



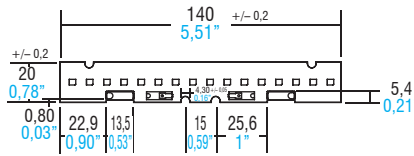
SMART series - Linear modules

Technical features - Caratteristiche tecniche

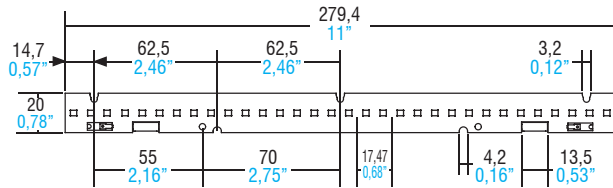
LM70/20E8 (Weight/Peso 0,21 oz. / gr. 6 - Pcs/Pezzi 216)



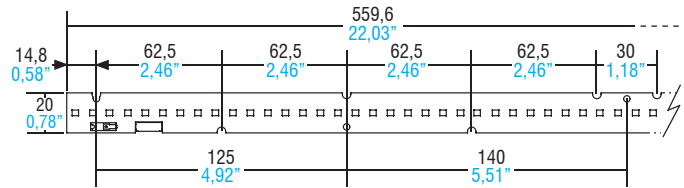
LM140/20E16 (Weight/Peso 0,32 oz. / gr. 9 - Pcs/Pezzi 144)



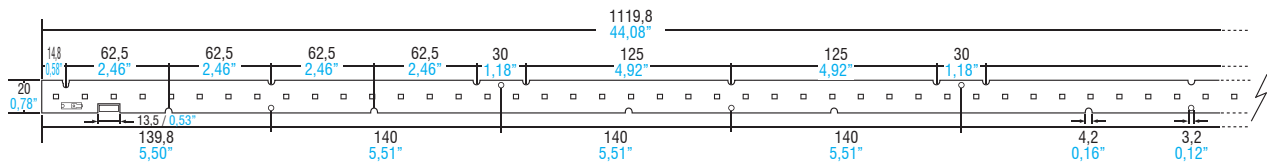
LM280/20E32 (Weight/Peso 0,63 oz. / gr. 18 - Pcs/Pezzi 72)



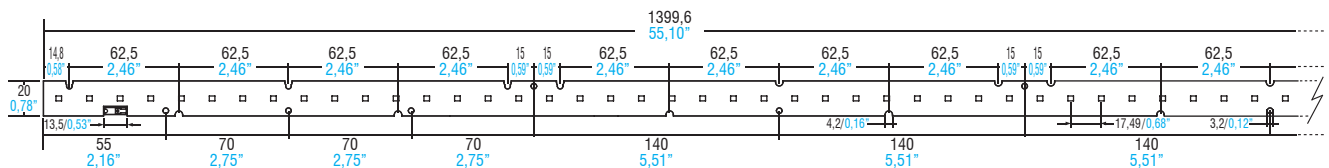
LM560/20E64 (Weight/Peso 1,31 oz. / gr. 37 - Pcs/Pezzi 72)



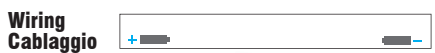
LM1120/20E128 (Weight/Peso 2,11 oz. / gr. 60 - Pcs/Pezzi 120)



LM1400/20E160 (Weight/Peso 3,31 oz. / gr. 94 - Pcs/Pezzi 120)

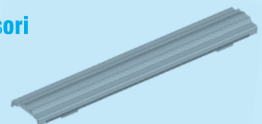


Zhaga compatible holes



Accessories - Accessori

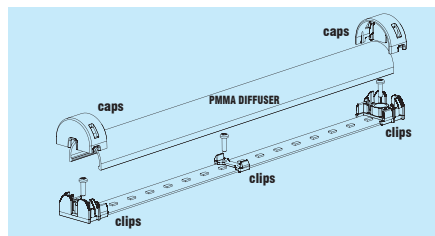
LINEA CLIP  
280 mm / 1 ft



For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Beam Angle Angolo di orientamento	30°	60°	90°	20° ASYM	±20° Double asymmetric
Code - Codice	468780231	468780232	468780233	468780234	468780235

<b>CAPS FOR PMMA CLIP LENSES</b>	<b>Grey 468780236</b>	<b>Transparent 468780236T</b>
----------------------------------	-----------------------	-------------------------------



Methacrylate (PMMA) diffuser cover. Cover efficiency 90%.  
Cover diffondente in metacrilato (PMMA). Efficienza cover 90%.

Code - Codice	Length - Lunghezza
128998/280	280 mm / 1 ft
128998/560	560 mm / 2 ft
128998/1120	1120 mm / 4 ft
128998/1400	1400 mm / 5 ft

KIT Testatine e Clip di fissaggio  
Fixing Caps and Clips KIT

Code - Codice	128999
---------------	--------

Main features

- Combinable high-quality modules for a smart, performant design. Ideal also for extensive applications. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > 80.000 h.
- High efficiency: up to 192 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e performante, anche estensivo. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 192 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: www.tci.it

1.1

LINEAR LIGHTING



> 80.000 h  
@ tc=85 °C



**CRI**  
>80  
>90 available online

**Available (CCT) colour temperature**

3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 °

**Ambient temperature ta:** -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature tc:** 85 °C

**Absolute maximum operating current:**  
600 mA

**Standards compliance**

CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

**LM139/20E12**



**LM279/20E24**



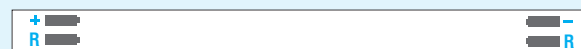
**LM559/20E48**



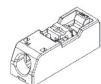
Article Articolino	Code Codice	Connector Type	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
<b>LM139/20E12</b>	128922/830H	Standard	3000	270	503	466	2,9	170	160	11,4	12,1
				350	632	584	3,8	162	152		
	128924/830H	Reverse	4000	400	708	654	4,4	157	148		
				270	530	490	2,9	179	169		
	128922/840H	Standard	4000	350	665	615	3,8	171	161		
				400	745	689	4,4	166	156		
128922/850H	Standard	5000	270	538	497	2,9	181	171			
			350	674	624	3,8	173	163			
<b>LM279/20E24</b>	128469/830H	Standard	3000	270	1007	931	5,8	170	160	22,3	24,2
				350	1263	1168	7,6	162	152		
	128470/830H	Reverse	4000	400	1416	1309	8,8	157	148		
				270	1060	980	5,8	179	169		
	128469/840H	Standard	4000	350	1330	1230	7,6	171	161		
				400	1491	1378	8,8	166	156		
128469/850H	Standard	5000	270	1075	994	5,8	181	171			
			350	1349	1247	7,6	173	163			
<b>LM559/20E48</b>	128467/830H	Standard	3000	270	2014	1862	11,6	170	160	44,6	48,4
				350	2527	2336	15,3	162	152		
	128468/830H	Reverse	4000	400	2832	2618	17,6	157	148		
				270	2120	1960	11,6	179	169		
	128468/840H	Standard	4000	350	2660	2459	15,3	171	161		
				400	2981	2756	17,6	166	156		
128467/850H	Standard	5000	270	2150	1988	11,6	181	171			
			350	2698	2494	15,3	173	163			
128468/850H	Reverse	5000	400	3024	2795	17,6	168	158			

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.

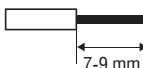
### Easy wiring - Cablaggio semplificato



**Standard connector**



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



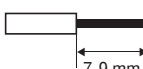
**Solid conductor - Conduttore rigido**  
**Fine-stranded conductor - Conduttore flessibile**  
Fine-stranded conductor with ferrule with plastic collar -  
Conduttore flessibile con boccola con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

**Reverse connector**



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.

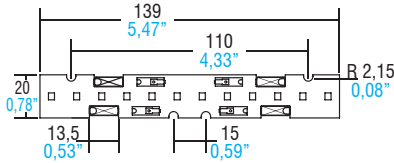


**Solid conductor - Conduttore rigido**  
**Tinned wire ends within - Conduttore stagnato di sezione**

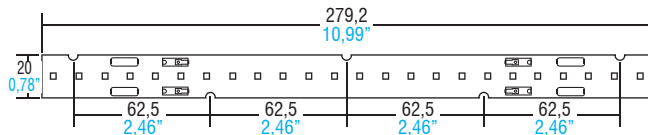
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup>

Technical features - Caratteristiche tecniche

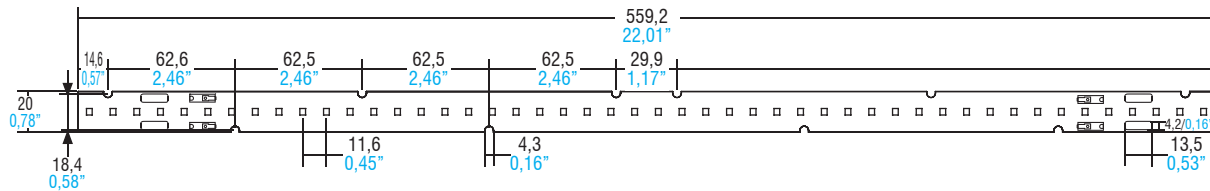
LM139/20E12 (Weight/Peso 0,35 oz. / gr. 10 - Pcs/Pezzi 145)



LM279/20E24 (Weight/Peso 0,63 oz. / gr. 18 - Pcs/Pezzi 72)



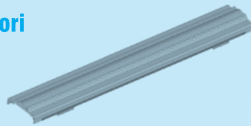
LM559/20E48 (Weight/Peso 1,27 oz. / gr. 36 - Pcs/Pezzi 72)



Zhaga compatible holes

Accessories - Accessori

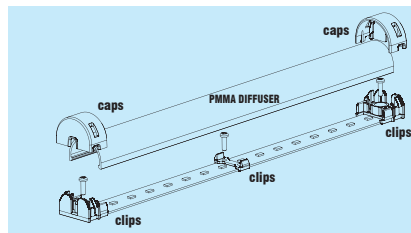
LINEA CLIP  
280 mm / 1 ft



For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Beam Angle Angolo di orientamento	30°	60°	90°	20° ASYM	±20° Double asymmetric
Code - Codice	468780231	468780232	468780233	468780234	468780235

CAPS FOR PMMA CLIP LENSES	Grey 468780236	Transparent 468780236T
---------------------------	----------------	------------------------



Methacrylate (PMMA) diffuser cover. Cover efficiency 90%.  
Cover diffondente in metacrilato (PMMA). Efficienza cover 90%.

Code - Codice	Length - Lunghezza
128998/280	280 mm / 1 ft
128998/560	560 mm / 2 ft
128998/1120	1120 mm / 4 ft
128998/1400	1400 mm / 5 ft

KIT Testatine e Clip di fissaggio  
Fixing Caps and Clips KIT

Code - Codice	128999
---------------	--------

Main features

- Combinable high-quality modules for a smart, performant design. Ideal also for extensive applications. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > 80.000 h.
- High efficiency: up to 181 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e performante, anche estensivo. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 181 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: www.tci.it

1.1

LINEAR LIGHTING



> 80.000 h  
@ tc=85 °C



LM139/20E12



LM279/20E24



LM559/20E48



**CRI**

>80  
>90 available online

**Available (CCT) colour temperature**

3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**

120 °

**Ambient temperature**

ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature**

tc: 85 °C

**Absolute maximum operating current:**

200 mA (LM139/20E12)  
400 mA (LM279/20E24)  
800 mA (LM559/20E48)

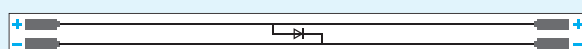
**Standards compliance**

CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

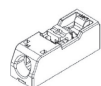
Article Articolo	Code Codice	Connector Type	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
LM139/20E12	131131/830H	Standard	3000	62	362	335	2	179	169	33	36
				87	491	454	2,8	171	161		
	131132/830H	Reverse	4000	125	670	620	4,1	160	150		
				62	382	353	2	189	178		
	131131/840H	Standard	5000	87	517	478	2,8	180	169		
				125	706	652	4,1	168	158		
131131/850H	Standard	3000	62	387	358	2	192	181			
			87	525	485	2,8	182	172			
131132/850H	Reverse	4000	125	716	662	4,1	171	161			
			125	724	670	4	179	169			
LM279/20E24	128473/830H	Standard	3000	175	982	908	5,6	171	161	33	36
				250	1340	1239	8,2	160	150		
	128474/830H	Reverse	4000	125	763	705	4	189	178		
				175	1034	956	5,6	180	169		
	128473/840H	Standard	5000	250	1411	1304	8,2	168	158		
				125	773	715	4	192	181		
128474/840H	Reverse	3000	175	1049	970	5,6	182	172			
			250	1431	1323	8,2	171	161			
LM559/20E48	128471/830H	Standard	3000	250	1449	1340	8	179	169	33	36
				350	1964	1816	11,2	171	161		
	128472/830H	Reverse	4000	500	2681	2478	16,4	160	150		
				250	1525	1411	8	189	178		
	128471/840H	Standard	5000	350	2068	1912	11,2	180	169		
				500	2822	2609	16,4	168	158		
128472/840H	Reverse	3000	250	1547	1431	8	192	181			
			350	2097	1939	11,2	182	172			
128471/850H	Standard	4000	500	2862	2646	16,4	171	161			
			500	2862	2646	16,4	171	161			

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.

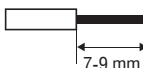
**Easy wiring - Cablaggio semplificato**



Standard connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



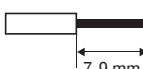
Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

Reverse connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.

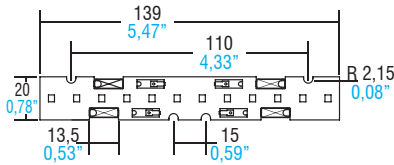


Solid conductor - Conduttore rigido  
Tinned wire ends within - Conduttore stagnato di sezione

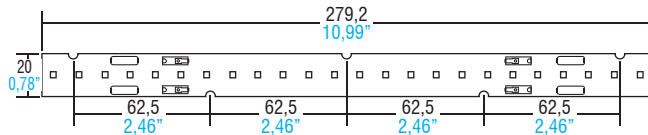
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup>

Technical features - Caratteristiche tecniche

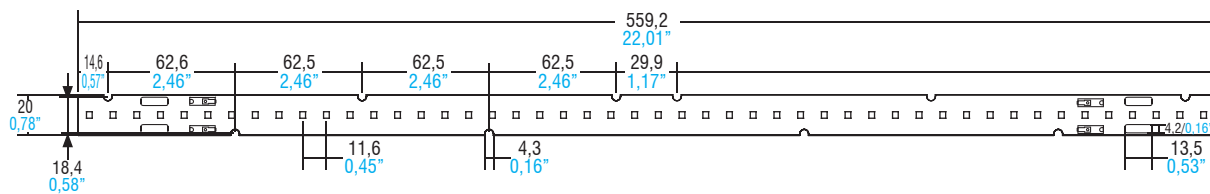
LM139/20E12 (Weight/Peso 0,35 oz. / gr. 10 - Pcs/Pezzi 145)



LM279/20E24 (Weight/Peso 0,63 oz. / gr. 18 - Pcs/Pezzi 72)



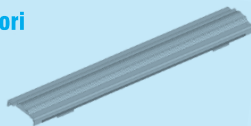
LM559/20E48 (Weight/Peso 1,27 oz. / gr. 36 - Pcs/Pezzi 72)



Zhaga compatible holes

Accessories - Accessori

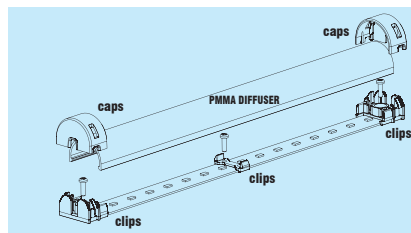
LINEA CLIP  
280 mm / 1 ft



For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Beam Angle Angolo di orientamento	30°	60°	90°	20° ASYM	±20° Double asymmetric
Code - Codice	468780231	468780232	468780233	468780234	468780235

CAPS FOR PMMA CLIP LENSES	Grey 468780236	Transparent 468780236T
---------------------------	----------------	------------------------



Methacrylate (PMMA) diffuser cover. Cover efficiency 90%.  
Cover diffondente in metacrilato (PMMA). Efficienza cover 90%.

Code - Codice	Length - Lunghezza
128998/280	280 mm / 1 ft
128998/560	560 mm / 2 ft
128998/1120	1120 mm / 4 ft
128998/1400	1400 mm / 5 ft

KIT Testatine e Clip di fissaggio  
Fixing Caps and Clips KIT

Code - Codice	128999
---------------	--------

Main features

- Combinable high-quality modules for a smart, performant design. Ideal also for extensive applications. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for SELV applications only.
- Extended lifetime > 80.000 h.
- High efficiency: up to 192 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e performante, anche estensivo. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei solo per applicazioni SELV.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 192 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: www.tci.it

# LM280/40E30 - LM560/40E60

## SMART series - Linear modules

Made in Italy



1.1

LINEAR LIGHTING



> 80.000 h  
@ tc=85 °C



### CRI

> 80  
> 90 available online

### Available (CCT) colour temperature

3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

### Beam angle

120 °

### Ambient temperature

ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

### Module temperature

tc: 85 °C

### Absolute maximum operating current:

1000 mA

### Standards compliance

CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

### LM280/40E30



### LM560/40E60



Article Articolò	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
LM280/40E30	128201/830H	3000	350	1004	929	5,6	177	167	16,7	17,5
			500	1381	1277	8	167	157		
			600	1618	1496	9,8	161	152		
	128201/840H	4000	350	1057	978	5,6	186	175		
			500	1454	1344	8	176	165		
			600	1703	1575	9,8	170	160		
	128201/850H	5000	350	1072	992	5,6	189	178		
			500	1475	1364	8	178	168		
			600	1728	1597	9,8	172	162		
LM560/40E60	128202/830H	3000	350	2009	1858	11	177	167	33,4	35
			500	2763	2554	16,2	167	157		
			600	3236	2992	19,7	161	152		
	128202/840H	4000	350	2114	1955	11	186	175		
			500	2908	2689	16,2	176	165		
			600	3406	3149	19,7	170	160		
	128202/850H	5000	350	2145	1983	11	189	178		
			500	2950	2727	16,2	178	168		
			600	3455	3194	19,7	172	162		

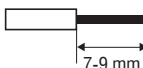
The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



Standard connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



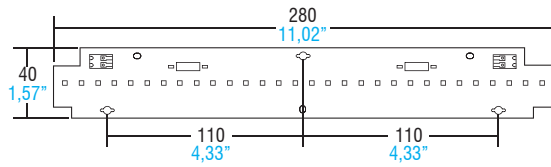
Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

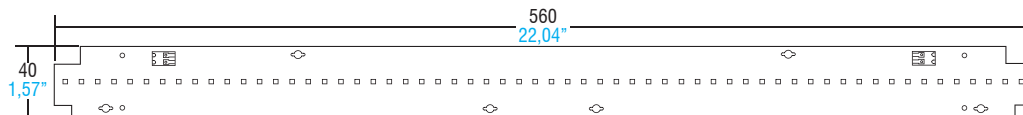


Technical features - Caratteristiche tecniche

LM280/40E30 (Weight/Peso 1,26 oz. / gr. 36 - Pcs/Pezzi 72)



LM560/40E60 (Weight/Peso 2,39 oz. / gr. 68 - Pcs/Pezzi 48)



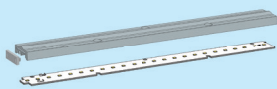
Zhaga compatible holes

Wiring - Cablaggio



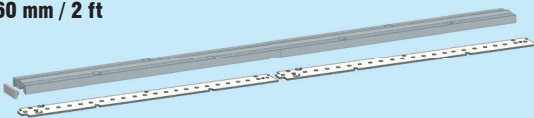
Accessories - Accessori

LINEA BOXED  
280 mm / 1 ft



280 mm / 1 ft

LINEA BOXED  
560 mm / 2 ft



560 mm / 2 ft

For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Beam Angle Angolo di orientamento	Standard	Diffuse	Extra wide 90°	Wide 60°
Code Codice	468780209	468780211	468780212	468780213

Beam Angle Angolo di orientamento	Narrow 30°	Retail Sym	Retail Asym	High rack
Code Codice	468780214	468780215	468780216	468780217

Beam Angle Angolo di orientamento	Standard	Retail Sym
Code Codice	468780218	468780219

CAPS FOR PMMA BOXED LENSES	Code 468780222
----------------------------	----------------

Main features

- Combinable high-quality modules for a smart, performant design. Ideal also for extensive applications. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > 80.000 h.
- High efficiency: up to 189 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e performante, anche estensivo. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 189 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

1.1

LINEAR LIGHTING



> 80.000 h  
@ tc=85 °C



**CRI**  
>80  
>90 available online

**Available (CCT) colour temperature**  
3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 ° (without lens)

**Ambient temperature**  
ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature**  
tc: 85 °C

**Absolute maximum operating current:**  
600 mA

**Standards compliance**  
CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

SM280/55E33 - SM280/55E33L



SM560/55E66 - SM560/55E66L



Article Articollo	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
SM280/55E33 Internal connectors	128023/830H	3000	250	1293	1196	7,3	172	162	30,8	33,5
			350	1737	1606	10,5	153			
			450	2150	1987	13,7	144			
	128023/840H	4000	250	1361	1258	7,3	181	171		
			350	1829	1691	10,5	161			
			450	2263	2092	13,7	151			
	128023/850H	5000	250	1380	1276	7,3	184	173		
			350	1855	1715	10,5	173			
			450	2295	2121	13,7	163			
SM280/55E33L External connectors	128240/830H	3000	250	1293	1196	7,3	172	162	30,8	33,5
			350	1737	1606	10,5	153			
			450	2150	1987	13,7	144			
	128240/840H	4000	250	1361	1258	7,3	181	171		
			350	1829	1691	10,5	161			
			450	2263	2092	13,7	151			
	128240/850H	5000	250	1380	1276	7,3	184	173		
			350	1855	1715	10,5	173			
			450	2295	2121	13,7	163			
SM560/55E66 Internal connectors	128400/830H	3000	250	2586	2391	14,7	172	162	61,6	67
			350	3474	3212	21	153			
			450	4300	3974	27,5	144			
	128400/840H	4000	250	2722	2517	14,7	181	171		
			350	3657	3381	21	161			
			450	4526	4183	27,5	151			
	128400/850H	5000	250	2761	2553	14,7	184	173		
			350	3710	3429	21	163			
			450	4591	4243	27,5	154			
SM560/55E66L External connectors	128445/830H	3000	250	2586	2391	14,7	172	162	61,6	67
			350	3474	3212	21	153			
			450	4300	3974	27,5	144			
	128445/840H	4000	250	2722	2517	14,7	181	171		
			350	3657	3381	21	161			
			450	4526	4183	27,5	151			
	128445/850H	5000	250	2761	2553	14,7	184	173		
			350	3710	3429	21	163			
			450	4591	4243	27,5	154			

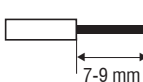
The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



Standard connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

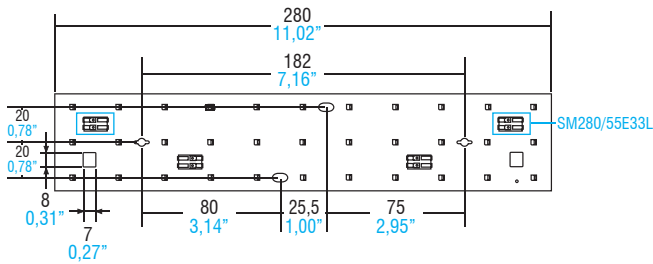




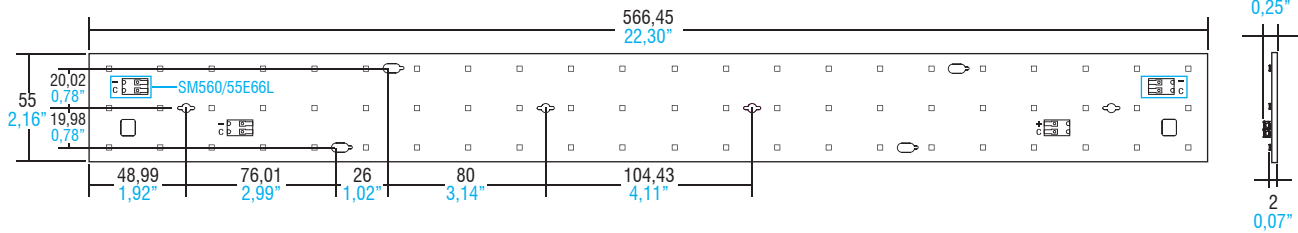
SMART series - Rectangular modules

Technical features - Caratteristiche tecniche

SM280/55E33 - SM280/55E33L (Weight/Peso 1,69 oz. / gr. 48 - Pcs/Pezzi 96)

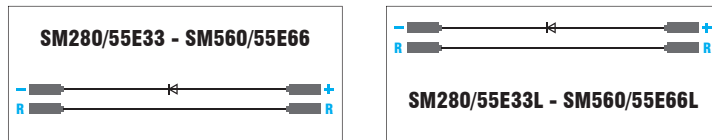


SM560/55E66 - SM560/55E66L (Weight/Peso 3,45 oz. / gr. 98 - Pcs/Pezzi 48)



Zhaga compatible holes

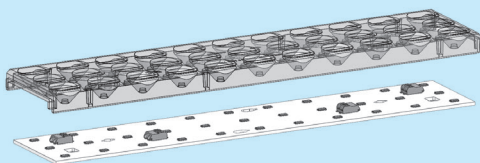
Wiring - Cablaggio



Accessories - Accessori

LINEA FLAT 33LED / LINEA BOXED 33LED

280 mm / 1 ft



Article Articolo	LINEA FLAT 33LED 30°	LINEA FLAT 33LED 60°	LINEA FLAT 33LED 90°	LINEA FLAT 33LED DOUBLE ASYMM.
Code Codice	468780112	468780113	468780114	468780115

Article Articolo	LINEA BOXED 33LED 30°	LINEA BOXED 33LED 60°	LINEA BOXED 33LED 90°	LINEA BOXED 33LED DOUBLE ASYMM.
Code Codice	468780143	468780144A	468780145A	468780146A

PLASTIC END PLUGS		Cod. 488787435
-------------------	--	----------------

LINEA BOXED 33LED IP65 Only for SM280/55E33 - SM280/55E33L

Article Articolo	LINEA BOXED 33LED IP65 25°	LINEA BOXED 33LED IP65 60°	LINEA BOXED 33LED IP65 90°	GASKET IP65
Code Codice	468780303	468780304	468780305	468780306

REFLECTORS

Article Articolo	PIXEL 3x11 30° ASY	PIXEL 3x11 30° DA	PIXEL 3x11 ME	PIXEL 3x11 60° EXTRA WIDE	PIXEL 3x11 90° ULTRA WIDE	PLASTIC END PLUGS
Code Codice	468780333	468780334	468780335	468780336	468780337	488787435

For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Main features

- Combinable high-quality modules for a smart, versatile design. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > 80.000 h.
- High efficiency: up to 184 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e versatile. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 184 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

SMART PRO series - Linear modules

Made in Italy



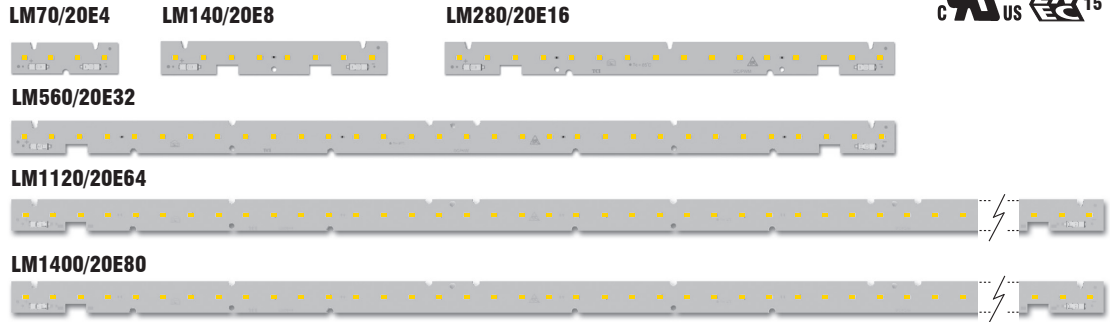
1.2



> 80.000 h @ tc=85 °C



LINEAR LIGHTING



**CRI**  
>80  
>90 available online

**Available (CCT) colour temperature**

3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 °

**Ambient temperature ta:** -40...+55 °C  
(Only for tc ≤ 85 °C)

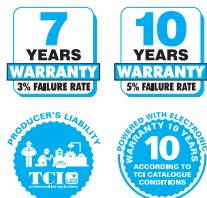
**Module temperature tc:** 85 °C

**Absolute maximum operating current:**  
800 mA

**Standards compliance**  
CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

Article Articolino	Code Codice	Connector Type	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
<b>LM70/20E4</b>	128899/830BB	Standard	3000	250	132	123	0,6	192	182	2,8	3
				350	182	170	0,9	187	177		
				500	254	237	1,4	179	169		
	128899/840BB	Standard	4000	250	138	128	0,6	201	190		
				350	190	177	0,9	195	184		
				500	266	248	1,4	187	177		
	128899/850BB	Standard	5000	250	139	130	0,6	203	193		
				350	193	180	0,9	198	187		
				500	269	251	1,4	190	179		
<b>LM140/20E8</b>	128117/830BB	Standard	3000	250	264	246	1,4	192	182	5,5	6
				350	364	339	2	187	177		
				500	509	474	2,8	179	169		
	128117/840BB	Standard	4000	250	275	257	1,4	201	190		
				350	380	354	2	195	184		
				500	531	495	2,8	187	177		
	128117/850BB	Standard	5000	250	279	260	1,4	203	192		
				350	385	359	2	198	187		
				500	538	502	2,8	190	179		
<b>LM280/20E16</b>	128038/830BB	Standard	3000	250	527	492	2,7	192	182	11	12
				350	728	679	3,9	187	177		
				500	1018	949	5,7	179	169		
	128038/840BB	Standard	4000	250	550	513	2,7	201	190		
				350	760	708	3,9	195	184		
				500	1062	990	5,7	187	177		
	128038/850BB	Standard	5000	250	558	520	2,7	203	192		
				350	770	718	3,9	198	187		
				500	1077	1004	5,7	190	179		
<b>LM560/20E32</b>	128039/830BB	Standard	3000	250	1054	983	5,4	192	182	22	23,9
				350	1456	1358	7,8	188	177		
				500	2036	1898	11,4	179	169		
	128039/840BB	Standard	4000	250	1100	1026	5,4	201	190		
				350	1520	1417	7,8	195	184		
				500	2124	1980	11,4	187	177		
	128039/850BB	Standard	5000	250	1116	1040	5,4	203	192		
				350	1541	1437	7,8	198	187		
				500	2154	2008	11,4	190	179		
<b>LM1120/20E64</b>	128448/830BB	Standard	3000	250	2109	1967	11	192	182	44	47,8
				350	2913	2716	15,3	187	177		
				500	4072	3795	22,3	179	169		
	128448/840BB	Standard	4000	250	2201	2052	11	201	190		
				350	3039	2834	15,3	195	184		
				500	4249	3960	22,3	187	177		
	128448/850BB	Standard	5000	250	2231	2081	11	203	192		
				350	3081	2873	15,3	198	187		
				500	4308	4015	22,3	190	179		
<b>LM1400/20E80</b>	128459/830BB	Standard	3000	250	2636	2459	13,5	192	182	55	60
				350	3641	3395	19,2	187	177		
				500	5089	4744	28	179	169		
	128459/840BB	Standard	4000	250	2751	2565	13,5	201	190		
				350	3799	3542	19,2	195	184		
				500	5311	4951	28	187	177		
	128459/850BB	Standard	5000	250	2789	2601	13,5	203	192		
				350	3852	3591	19,2	197	187		
				500	5384	5019	28	189	179		

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



**Standard connector**  
Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.

**Reverse connector**  
Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.

**Solid conductor - Conduttore rigido**  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

7-9 mm

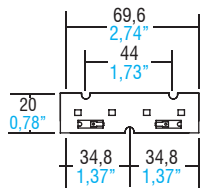
**Solid conductor - Conduttore rigido**  
Tinned wire ends within - Conduttore stagno di sezione

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup>

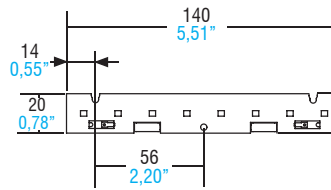
SMART PRO series - Linear modules

Technical features - Caratteristiche tecniche

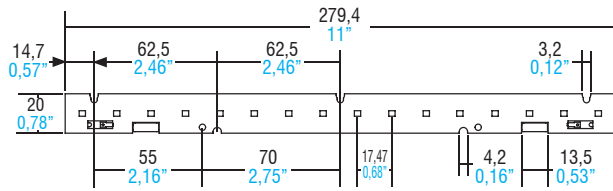
LM70/20E4 (Weight/Peso 0,21 oz. / gr. 6 - Pcs/Pezzi 216)



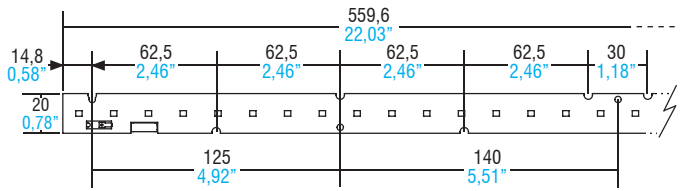
LM140/20E8 (Weight/Peso 0,32 oz. / gr. 9 - Pcs/Pezzi 144)



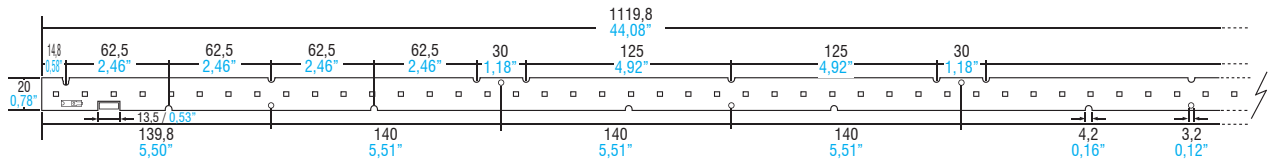
LM280/20E16 (Weight/Peso 0,63 oz. / gr. 18 - Pcs/Pezzi 72)



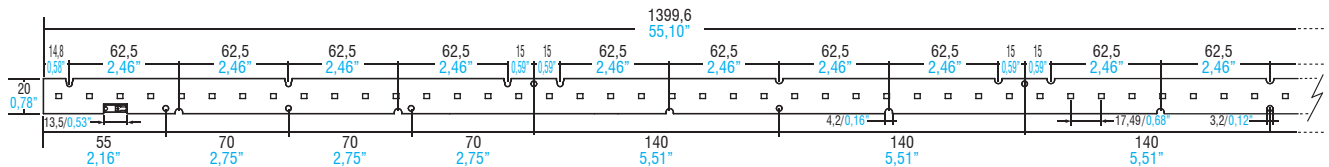
LM560/20E32 (Weight/Peso 1,27 oz. / gr. 36 - Pcs/Pezzi 72)



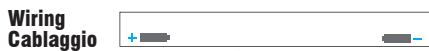
LM1120/20E64 (Weight/Peso 2,08 oz. / gr. 59 - Pcs/Pezzi 120)



LM1400/20E80 (Weight/Peso 3,20 oz. / gr. 91 - Pcs/Pezzi 120)



Zhaga compatible holes



**Accessories - Accessori**

**LINEA CLIP**  
280 mm / 1 ft

<b>Beam Angle</b> Angolo di orientamento	30°	60°	90°	20° ASYM	±20° Double asymmetric
<b>Code - Codice</b>	468780231	468780232	468780233	468780234	468780235

For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

<b>CAPS FOR PMMA CLIP LENSES</b>	Grey 468780236	Transparent 468780236T
----------------------------------	----------------	------------------------

**Methacrylate (PMMA) diffuser cover. Cover efficiency 90%.  
Cover diffondente in metacrilato (PMMA). Efficienza cover 90%.**

<b>Code - Codice</b>	<b>Length - Lunghezza</b>
128998/280	280 mm / 1 ft
128998/560	560 mm / 2 ft
128998/1120	1120 mm / 4 ft
128998/1400	1400 mm / 5 ft

**KIT Testatine e Clip di fissaggio**  
**Fixing Caps and Clips KIT**

<b>Code - Codice</b>	128999
----------------------	--------

- Main features**
- Combinable high-quality modules for a smart, performant design. Ideal also for extensive applications. Perfect light uniformity.
  - Ideal for residential, office, retail and industrial lighting.
  - SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
  - Extended lifetime > 80.000 h.
  - High efficiency: up to 203 lm/W.
  - Minimum colour tolerance: 3MacAdam (3SDCM).
  - Push-in terminal blocks. Easy module fixing with screws.
  - Suitable for emergency applications with TCI inverters.
  - Only for professional use, not for final end user.
- For additional technical informations please visit our website: www.tci.it**

- Caratteristiche principali**
- Moduli combinabili di elevata qualità per un design smart e performante, anche estensivo. Luce perfettamente uniforme.
  - Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
  - Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
  - Lifetime esteso > 80.000 h.
  - Elevata efficienza: fino a 203 lm/W.
  - Minima tolleranza di colore: 3MacAdam (3SDCM).
  - Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
  - Moduli alimentabili in emergenza con inverter TCI.
  - Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.



> 80.000 h  
@ tc=85 °C



LM140/20E12

LM280/20E24



LM560/20E48



LM1120/20E96



LM1400/20E120



**CRI**

>80  
>90 available online

**Available (CCT) colour temperature**

3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 °

**Ambient temperature**  
ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature**  
tc: 85 °C

**Absolute maximum operating current:**  
800 mA

**Standards compliance**  
CSA-C22.2 no.250

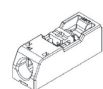
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

Article Articolato	Code Codice	Connector Type	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
<b>LM140/20E12</b>	128981/830BB	Standard	3000	250	395	369	2	192	182	8,3	9
	128982/830BB	Reverse		350	546	509	2,9	187	177		
	128981/840BB	Standard	4000	250	413	385	2	201	190		
	128982/840BB	Reverse		350	570	531	2,9	195	184		
	128981/850BB	Standard	5000	250	518	390	2	203	192		
	128982/850BB	Reverse		350	578	539	2,9	197	187		
<b>LM280/20E24</b>	128319/830BB	Standard	3000	250	791	738	4	192	182	16,5	18
	128622/830BB	Reverse		350	1092	1018	5,7	187	177		
	128319/840BB	Standard	4000	250	825	770	4	201	190		
	128622/840BB	Reverse		350	1140	1063	5,7	195	184		
	128319/850BB	Standard	5000	250	837	780	4	203	192		
	128622/850BB	Reverse		350	1156	1077	5,7	197	187		
<b>LM560/20E48</b>	128320/830BB	Standard	3000	250	1582	1475	8,2	192	182	33	36
	128623/830BB	Reverse		350	2184	2037	11,5	187	177		
	128320/840BB	Standard	4000	250	1651	1539	8,2	201	190		
	128623/840BB	Reverse		350	2279	2125	11,5	195	184		
	128320/850BB	Standard	5000	250	1673	1561	8,2	203	192		
	128623/850BB	Reverse		350	2311	2155	11,5	197	187		
<b>LM1120/20E96</b>	128453/830BB	Standard	3000	250	3163	2950	16,2	192	182	66	71,7
	128614/830BB	Reverse		350	4369	4074	23	187	177		
	128453/840BB	Standard	4000	250	3301	3079	16,2	201	190		
	128614/840BB	Reverse		350	4559	4251	23	195	184		
	128453/850BB	Standard	5000	250	3347	3121	16,2	203	192		
	128614/850BB	Reverse		350	4622	4310	23	198	187		
<b>LM1400/20E120</b>	128661/830BB	Standard	3000	250	3954	3688	20	192	182	82,5	90
	128679/830BB	Reverse		350	5461	5092	29	187	177		
	128661/840BB	Standard	4000	250	4126	3848	20	201	190		
	128679/840BB	Reverse		350	5698	5313	29	195	184		
	128661/850BB	Standard	5000	250	4184	3902	20	203	192		
	128679/850BB	Reverse		350	5778	5387	29	197	187		

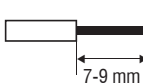
The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



Standard connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



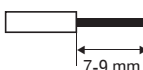
Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

Reverse connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



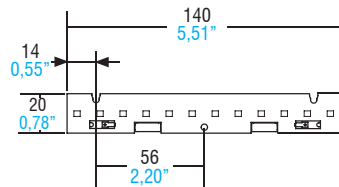
Solid conductor - Conduttore rigido  
Tinned wire ends within - Conduttore stagno di sezione

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup>

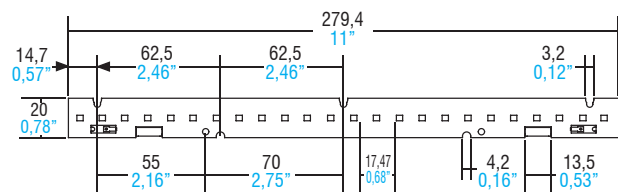
SMART PRO series - Linear modules

Technical features - Caratteristiche tecniche

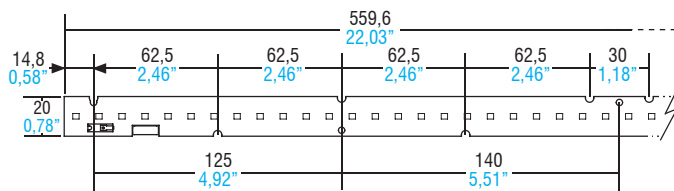
LM140/20E12 (Weight/Peso 0,32 oz. / gr. 9 - Pcs/Pezzi 144)



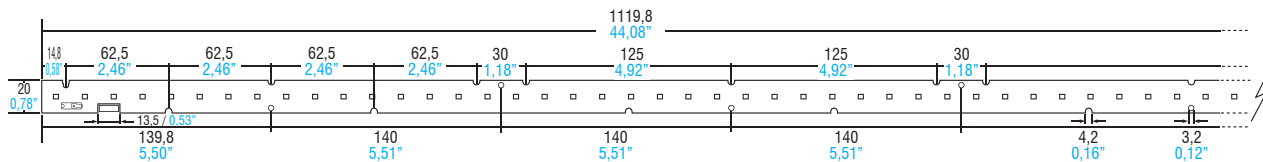
LM280/20E24 (Weight/Peso 0,63 oz. / gr. 18 - Pcs/Pezzi 72)



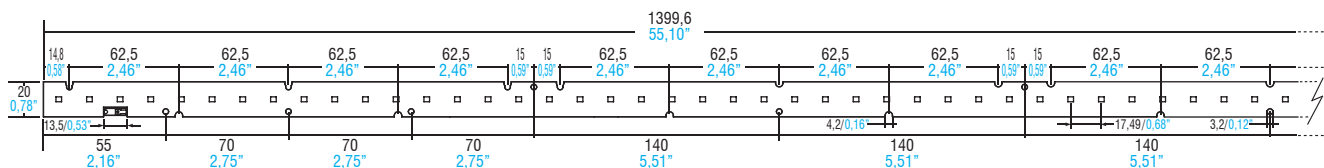
LM560/20E48 (Weight/Peso 1,30 oz. / gr. 37 - Pcs/Pezzi 72)



LM1120/20E96 (Weight/Peso 2,11 oz. / gr. 60 - Pcs/Pezzi 120)



LM1400/20E120 (Weight/Peso 3,24 oz. / gr. 92 - Pcs/Pezzi 120)



Zhaga compatible holes



**Accessories - Accessori**

**LINEA CLIP**  
280 mm / 1 ft

For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Beam Angle Angolo di orientamento	30°	60°	90°	20° ASYM	±20° Double asymmetric
Code - Codice	468780231	468780232	468780233	468780234	468780235

<b>CAPS FOR PMMA CLIP LENSES</b>	<b>Grey 468780236</b>	<b>Transparent 468780236T</b>
----------------------------------	-----------------------	-------------------------------

**Methacrylate (PMMA) diffuser cover. Cover efficiency 90%.  
Cover diffondente in metacrilato (PMMA). Efficienza cover 90%.**

Code - Codice	Length - Lunghezza
128998/280	280 mm / 1 ft
128998/560	560 mm / 2 ft
128998/1120	1120 mm / 4 ft
128998/1400	1400 mm / 5 ft

**KIT Testatine e Clip di fissaggio  
Fixing Caps and Clips KIT**

<b>Code - Codice</b>	128999
----------------------	--------

Main features

- Combinable high-quality modules for a smart, performant design. Ideal also for extensive applications. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > 80.000 h.
- High efficiency: up to 203 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e performante, anche estensivo. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 203 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

SMART PRO series - Linear modules

Made in Italy

CE US

1.2



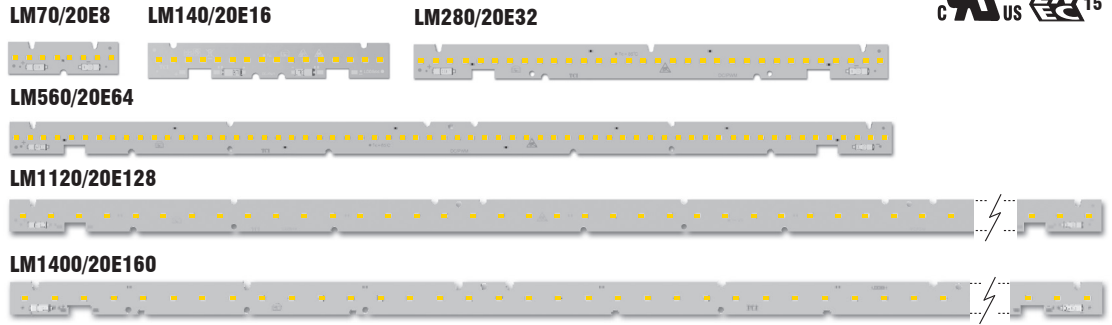
UP TO 203 lm/W

L80 B20

> 80.000 h @ tc=85 °C



LINEAR LIGHTING



**CRI**  
>80  
>90 available online

**Available (CCT) colour temperature**  
3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 °

**Ambient temperature**  
**ta:** -40...+55 °C  
(Only for tc ≤ 85 °C)

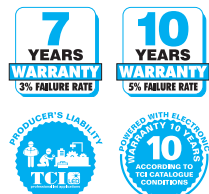
**Module temperature**  
**tc:** 85 °C

**Absolute maximum operating current:**  
800 mA

**Standards compliance**  
CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

Article Articololo	Code Codice	Connector Type	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax			
<b>LM70/20E8</b>	128900/830BB	Standard	3000	250	264	246	1,4	192	182	5,5	6			
				350	364	339	2	187	177					
				500	509	474	2,9	179	169					
	128900/840BB	Standard	4000	250	275	257	1,4	201	190					
				350	380	354	2	195	184					
				500	531	495	2,9	187	177					
	128900/850BB	Standard	5000	250	279	260	1,4	203	192					
				350	385	359	2	198	187					
				500	538	502	2,9	190	179					
	<b>LM140/20E16</b>	128227/830BB	Standard	3000	250	527	492	2,7	192			182	11	12
					350	728	679	3,8	187			177		
					500	1018	949	5,6	179			169		
128227/840BB		Standard	4000	250	550	513	2,7	201	190					
				350	760	708	3,8	195	184					
				500	1062	990	5,6	187	177					
128227/850BB		Standard	5000	250	558	520	2,7	203	192					
				350	770	718	3,8	198	187					
				500	1077	1004	5,6	190	179					
<b>LM280/20E32</b>		128083/830BB	Standard	3000	250	1054	983	5,4	192	182	22	23,9		
					350	1456	1358	7,6	187	177				
					500	2036	1898	11	179	169				
	128083/840BB	Standard	4000	250	1100	1026	5,4	201	190					
				350	1520	1417	7,6	195	184					
				500	2124	1980	11	187	177					
	128083/850BB	Standard	5000	250	1116	1040	5,4	203	192					
				350	1541	1437	7,6	198	187					
				500	2154	2008	11	190	179					
	<b>LM560/20E64</b>	128082/830BB	Standard	3000	250	2109	1967	11	192	182			44	47,8
					350	2913	2716	15,3	187	177				
					500	4072	3795	22,3	179	169				
128082/840BB		Standard	4000	250	2201	2052	11	201	190					
				350	3039	2834	15,3	195	184					
				500	4249	3960	22,3	187	177					
128082/850BB		Standard	5000	250	2231	2081	11	203	192					
				350	3081	2873	15,3	198	187					
				500	4308	4015	22,3	190	179					
<b>LM1120/20E128</b>		128449/830BB	Standard	3000	250	4218	3934	21,6	192	182	88	95,6		
					350	5825	5431	30,7	187	177				
					500	8143	7591	44,7	179	169				
	128449/840BB	Standard	4000	250	4401	4105	21,6	201	190					
				350	6078	5668	30,7	195	184					
				500	8497	7921	44,7	187	177					
	128449/850BB	Standard	5000	250	4463	4162	21,6	203	192					
				350	6163	5746	30,7	198	187					
				500	8615	8031	44,7	190	179					
	<b>LM1400/20E160</b>	128460/830BB	Standard	3000	250	5272	4917	27	192	182			110	120
					350	7281	6789	38	187	177				
					500	10179	9488	56	179	169				
128460/840BB		Standard	4000	250	5502	5131	27	201	190					
				350	7598	7085	38	195	184					
				500	10621	9901	56	187	177					
128460/850BB		Standard	5000	250	5578	5202	27	203	192					
				350	7703	7183	38	197	187					
				500	10769	10039	56	189	179					

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



**Standard connector** Insert/remove wires by slightly pressing on push-button. Inserire/rimuovere i cavi premendo leggermente sul pulsante.

**Reverse connector** Insert/remove wires by slightly pressing on push-button. Inserire/rimuovere i cavi premendo leggermente sul pulsante.

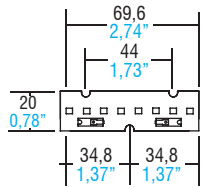
Solid conductor - Conduttore rigido 0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
Fine-stranded conductor - Conduttore flessibile 0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica 0,25...0,34 mm<sup>2</sup>

Solid conductor - Conduttore rigido 0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
Tinned wire ends within - Conduttore stagnato di sezione 0,2...0,75 mm<sup>2</sup>

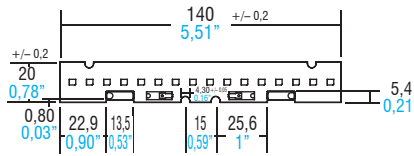
SMART PRO series - Linear modules

Technical features - Caratteristiche tecniche

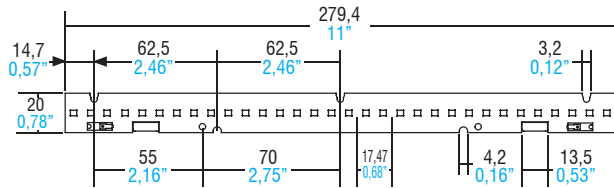
LM70/20E8 (Weight/Peso 0,21 oz. / gr. 6 - Pcs/Pezzi 216)



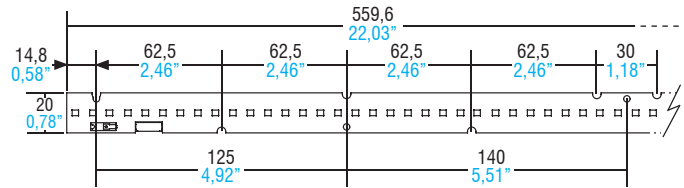
LM140/20E16 (Weight/Peso 0,32 oz. / gr. 9 - Pcs/Pezzi 144)



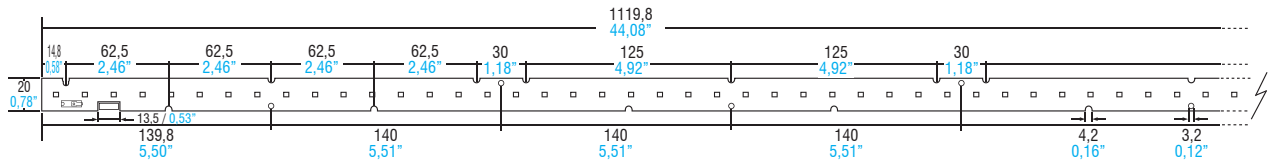
LM280/20E32 (Weight/Peso 0,63 oz. / gr. 18 - Pcs/Pezzi 72)



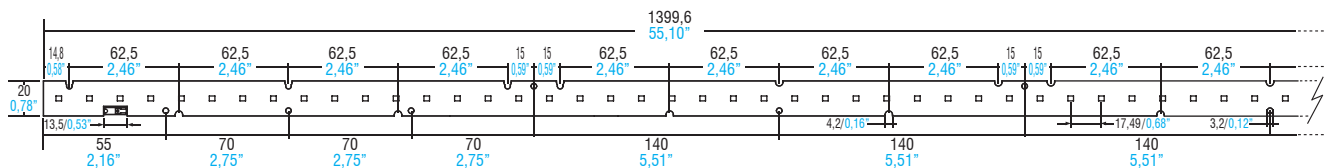
LM560/20E64 (Weight/Peso 1,31 oz. / gr. 37 - Pcs/Pezzi 72)



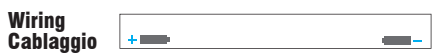
LM1120/20E128 (Weight/Peso 2,11 oz. / gr. 60 - Pcs/Pezzi 120)



LM1400/20E160 (Weight/Peso 3,31 oz. / gr. 94 - Pcs/Pezzi 120)

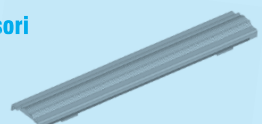


Zhaga compatible holes



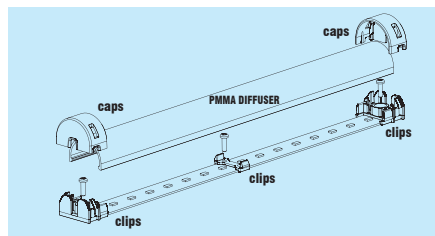
Accessories - Accessori

LINEA CLIP  
280 mm / 1 ft



For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Beam Angle Angolo di orientamento	30°	60°	90°	20° ASYM	±20° Double asymmetric
Code - Codice	468780231	468780232	468780233	468780234	468780235
<b>CAPS FOR PMMA CLIP LENSES</b>	<b>Grey 468780236</b>		<b>Transparent 468780236T</b>		



Methacrylate (PMMA) diffuser cover. Cover efficiency 90%.  
Cover diffondente in metacrilato (PMMA). Efficienza cover 90%.

Code - Codice	Length - Lunghezza
128998/280	280 mm / 1 ft
128998/560	560 mm / 2 ft
128998/1120	1120 mm / 4 ft
128998/1400	1400 mm / 5 ft

KIT Testatine e Clip di fissaggio  
Fixing Caps and Clips KIT

Code - Codice	128999
---------------	--------

Main features

- Combinable high-quality modules for a smart, performant design. Ideal also for extensive applications. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > 80.000 h.
- High efficiency: up to 203 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e performante, anche estensivo. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 203 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: www.tci.it



> 80.000 h  
@ tc=85 °C



**CRI**  
>80  
>90 available online

**Available (CCT) colour temperature**

3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 °

**Ambient temperature**  
ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature**  
tc: 85 °C

**Absolute maximum operating current:**  
600 mA

**Standards compliance**  
CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

**LM139/20E12**



**LM279/20E24**



**LM559/20E48**



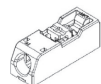
Article Articolino	Code Codice	Connector Type	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
<b>LM139/20E12</b>	128922/830BB	Standard	3000	270	561	523	3	186	176	11,4	12,1
				350	716	667	4	181	171		
	128924/830BB	Reverse	4000	400	810	755	4,5	177	168		
				270	585	546	3	194	184		
	128922/840BB	Standard	4000	350	747	697	4	188	178		
				400	846	788	4,5	185	175		
128922/850BB	Standard	5000	270	593	553	3	197	186			
			350	758	706	4	191	181			
<b>LM279/20E24</b>	128469/830BB	Standard	3000	270	1122	1046	5,5	186	176	22,3	24,2
				350	1432	1335	7,8	181	171		
	128470/830BB	Reverse	4000	400	1621	1511	11,4	177	168		
				270	1171	1091	5,5	194	184		
	128469/840BB	Standard	4000	350	1494	1393	7,8	188	178		
				400	1691	1576	11,4	185	175		
128469/850BB	Standard	5000	270	1187	1107	5,5	197	186			
			350	1515	1412	7,8	191	181			
<b>LM559/20E48</b>	128467/830BB	Standard	3000	270	2244	2092	12,1	186	176	44,6	48,4
				350	2864	2670	15,6	181	171		
	128468/830BB	Reverse	4000	400	3241	3021	17,9	177	168		
				270	2341	2183	12,1	194	184		
	128467/840BB	Standard	4000	350	2989	2786	15,6	188	178		
				400	3382	3153	17,9	185	175		
128467/850BB	Standard	5000	270	2374	2213	12,1	197	186			
			350	3030	2825	15,6	191	181			
128468/850BB	Reverse	5000	400	3429	3196	17,9	188	178			

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.

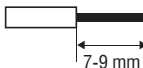
### Easy wiring - Cablaggio semplificato



**Standard connector**



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



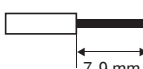
Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

**Reverse connector**



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



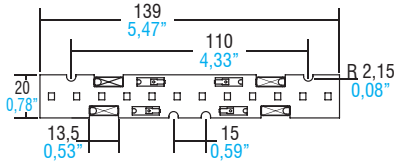
Solid conductor - Conduttore rigido  
Tinned wire ends within - Conduttore stagnato di sezione

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup>

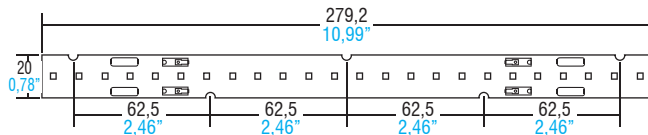


Technical features - Caratteristiche tecniche

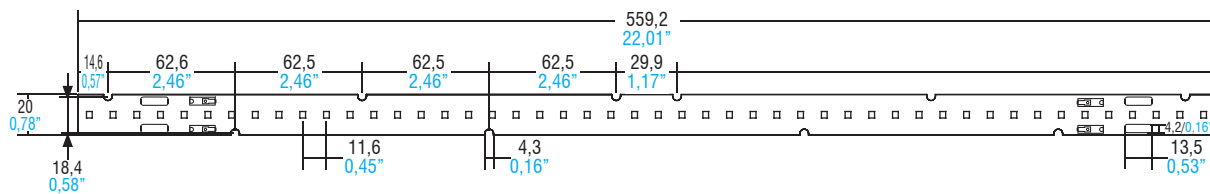
LM139/20E12 (Weight/Peso 0,35 oz. / gr. 10 - Pcs/Pezzi 145)



LM279/20E24 (Weight/Peso 0,63 oz. / gr. 18 - Pcs/Pezzi 72)



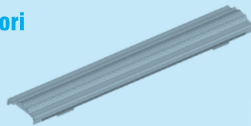
LM559/20E48 (Weight/Peso 1,27 oz. / gr. 36 - Pcs/Pezzi 72)



Zhaga compatible holes

Accessories - Accessori

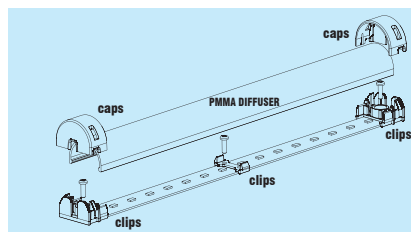
LINEA CLIP  
280 mm / 1 ft



For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Beam Angle Angolo di orientamento	30°	60°	90°	20° ASYM	±20° Double asymmetric
Code - Codice	468780231	468780232	468780233	468780234	468780235

CAPS FOR PMMA CLIP LENSES	Grey 468780236	Transparent 468780236T
---------------------------	----------------	------------------------



Methacrylate (PMMA) diffuser cover. Cover efficiency 90%.  
Cover diffondente in metacrilato (PMMA). Efficienza cover 90%.

Code - Codice	Length - Lunghezza
128998/280	280 mm / 1 ft
128998/560	560 mm / 2 ft
128998/1120	1120 mm / 4 ft
128998/1400	1400 mm / 5 ft

KIT Testatine e Clip di fissaggio  
Fixing Caps and Clips KIT

Code - Codice	128999
---------------	--------

Main features

- Combinable high-quality modules for a smart, performant design. Ideal also for extensive applications. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > 80.000 h.
- High efficiency: up to 197 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e performante, anche estensivo. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 197 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: www.tci.it

1.2



> 80.000 h  
@ tc=85 °C



LINEAR LIGHTING

LM139/20E12



LM279/20E24



LM559/20E48



CRI

>80

>90 available online

Available (CCT)

colour temperature

3000 K

4000 K

5000 K

2700 K on request - su richiesta

3500 K on request - su richiesta

5700 K on request - su richiesta

6500 K on request - su richiesta

Beam angle

120 °

Ambient temperature

ta: -40...+55 °C

(Only for tc ≤ 85 °C)

Module temperature

tc: 85 °C

Absolute maximum operating current:

200 mA (LM139/20E12)

400 mA (LM279/20E24)

800 mA (LM559/20E48)

Standards compliance

CSA-C22.2 no.250

EN 55015

EN 62031

EN 62471

IEC TR 62778

UL 8750

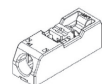
Article Articolo	Code Codice	Connector Type	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
LM139/20E12	131131/830BB	Standard	3000	62	396	369	2	192	182	33	36
				87	546	509	2,85	187	177		
	131132/830BB	Reverse	4000	125	764	712	4,15	179	169		
				62	413	385	2	201	190		
	131131/840BB	Standard	5000	87	570	532	2,85	195	184		
				125	797	743	4,15	187	177		
131132/840BB	Reverse	3000	62	419	39	2	203	192			
			87	578	539	2,85	197	187			
131132/850BB	Reverse	4000	125	808	753	4,15	189	179			
			125	791	738	4	192	182			
LM279/20E24	128473/830BB	Standard	3000	175	1092	1018	5,7	187	177	33	36
				250	1527	1423	8,3	179	169		
	128474/830BB	Reverse	4000	125	825	770	4	201	190		
				175	1140	1063	5,7	195	184		
	128473/840BB	Standard	5000	250	1593	1485	8,3	187	177		
				125	837	780	4	203	192		
128474/840BB	Reverse	3000	175	1156	1077	5,7	197	187			
			250	1615	1506	8,3	189	179			
LM559/20E48	128471/830BB	Standard	3000	250	1582	1475	8	192	182	33	36
				350	2184	2037	11,5	187	177		
	128472/830BB	Reverse	4000	500	3054	2847	16,7	179	169		
				250	1651	1539	8	201	190		
	128471/840BB	Standard	5000	350	2279	2125	11,5	195	184		
				500	3186	2970	16,7	187	177		
128472/840BB	Reverse	3000	250	1673	1561	8	203	192			
			350	2311	2155	11,5	197	187			
128471/850BB	Standard	4000	500	3231	3012	16,7	189	179			
			500	3231	3012	16,7	189	179			

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.

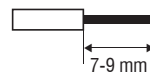
### Easy wiring - Cablaggio semplificato



Standard connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



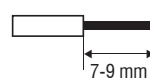
Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

Reverse connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.

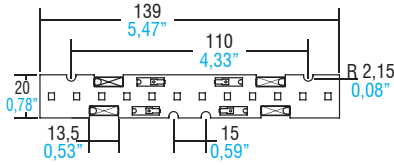


Solid conductor - Conduttore rigido  
Tinned wire ends within - Conduttore stagnato di sezione

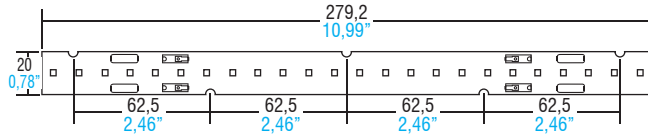
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup>

Technical features - Caratteristiche tecniche

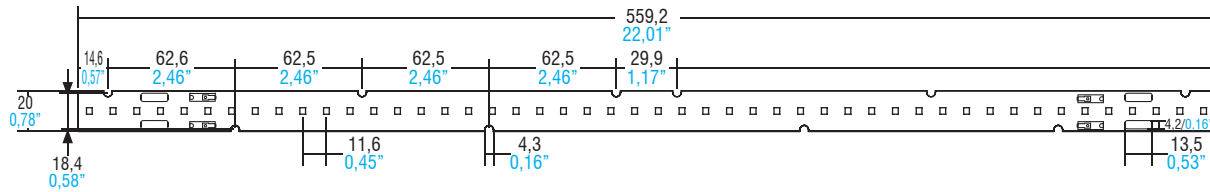
LM139/20E12 (Weight/Peso 0,35 oz. / gr. 10 - Pcs/Pezzi 145)



LM279/20E24 (Weight/Peso 0,63 oz. / gr. 18 - Pcs/Pezzi 72)



LM559/20E48 (Weight/Peso 1,27 oz. / gr. 36 - Pcs/Pezzi 72)



Zhaga compatible holes

**Accessories - Accessori**

**LINEA CLIP**  
280 mm / 1 ft

<b>Beam Angle</b> <b>Angolo di orientamento</b>	30°	60°	90°	20° ASYM	±20° Double asymmetric
<b>Code - Codice</b>	468780231	468780232	468780233	468780234	468780235

<b>CAPS FOR PMMA CLIP LENSES</b>	<b>Grey</b> 468780236	<b>Transparent</b> 468780236T
----------------------------------	-----------------------	-------------------------------

For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

**Methacrylate (PMMA) diffuser cover. Cover efficiency 90%.**  
**Cover diffondente in metacrilato (PMMA). Efficienza cover 90%.**

<b>Code - Codice</b>	<b>Length - Lunghezza</b>
128998/280	280 mm / 1 ft
128998/560	560 mm / 2 ft
128998/1120	1120 mm / 4 ft
128998/1400	1400 mm / 5 ft

**KIT Testatine e Clip di fissaggio**  
**Fixing Caps and Clips KIT**

<b>Code - Codice</b>	128999
----------------------	--------

Main features

- Combinable high-quality modules for a smart, performant design. Ideal also for extensive applications. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for SELV applications only.
- Extended lifetime > 80.000 h.
- High efficiency: up to 203 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e performante, anche estensivo. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei solo per applicazioni SELV.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 203 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: www.tci.it

# LM280/40E30 - LM560/40E60

## SMART PRO series - Linear modules

Made in Italy



1.2



LM280/40E30



LM560/40E60



LINEAR LIGHTING



> 80.000 h  
@ tc=85 °C



**CRI**

> 80  
> 90 available online

**Available (CCT) colour temperature**

3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**

120 °

**Ambient temperature**

ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature**

tc: 85 °C

**Absolute maximum operating current:**

1000 mA

**Standards compliance**

CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

Article Articolò	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
LM280/40E30	128201/830BB	3000	350	1103	1028	5,7	191	180	16,7	17,5
			500	1549	1444	8,2	184	174		
			700	2119	1975	11,8	176	167		
	128201/840BB	4000	350	1151	1073	5,7	199	188		
			500	1617	1507	8,2	192	182		
			700	2211	2061	11,8	184	174		
	128201/850BB	5000	350	1167	1088	5,7	201	191		
			500	1639	1528	8,2	195	184		
			700	2242	2089	11,8	187	176		
LM560/40E60	128202/830BB	3000	350	2206	2057	11,4	191	180	33,4	35
			500	3098	2889	16,5	184	174		
			700	4238	3950	23,6	176	167		
	128202/840BB	4000	350	2302	2146	11,4	199	188		
			500	3233	3014	16,5	192	182		
			700	4422	4121	23,6	184	174		
	128202/850BB	5000	350	2334	2176	11,4	201	191		
			500	3278	3056	16,5	195	184		
			700	4483	4179	23,6	187	176		

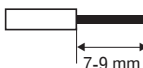
The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



Standard connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



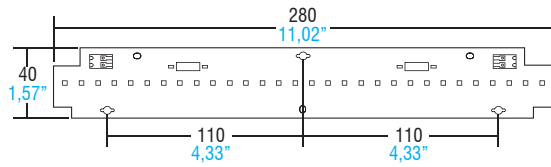
Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

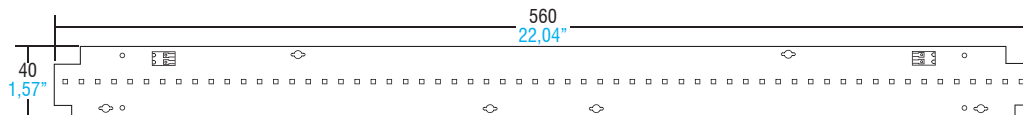


Technical features - Caratteristiche tecniche

LM280/40E30 (Weight/Peso 1,26 oz. / gr. 36 - Pcs/Pezzi 72)



LM560/40E60 (Weight/Peso 2,39 oz. / gr. 68 - Pcs/Pezzi 48)



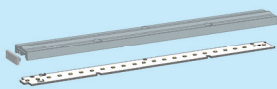
Zhaga compatible holes

Wiring - Cablaggio



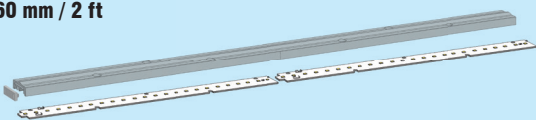
Accessories - Accessori

LINEA BOXED  
280 mm / 1 ft



280 mm / 1 ft

LINEA BOXED  
560 mm / 2 ft



560 mm / 2 ft

For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Beam Angle Angolo di orientamento	Standard	Diffuse	Extra wide 90°	Wide 60°
Code Codice	468780209	468780211	468780212	468780213

Beam Angle Angolo di orientamento	Narrow 30°	Retail Sym	Retail Asym	High rack
Code Codice	468780214	468780215	468780216	468780217

Beam Angle Angolo di orientamento	Standard	Retail Sym
Code Codice	468780218	468780219

CAPS FOR PMMA BOXED LENSES	Code 468780222
----------------------------	----------------

Main features

- Combinable high-quality modules for a smart, performant design. Ideal also for extensive applications. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > 80.000 h.
- High efficiency: up to 201 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e performante, anche estensivo. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 201 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

1.2

LINEAR LIGHTING



UP TO 199 lm/W



> 80.000 h @ tc=85 °C



CRI >80  
>90 available online

**Available (CCT) colour temperature**  
3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 ° (without lens)

**Ambient temperature**  
ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature**  
tc: 85 °C

**Absolute maximum operating current:**  
600 mA

**Standards compliance**  
CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

SM280/55E33 - SM280/55E33L

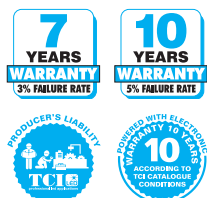


SM560/55E66 - SM560/55E66L



Article Articolò	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
SM280/55E33 Internal connectors	128023/830BB	3000	250	1434	1337	7,5	187	177	30,8	33,5
			350	1969	1836	10,7	181	171		
			450	2482	2314	14	174	165		
	128023/840BB	4000	250	1496	1395	7,5	196	185		
			350	2055	1915	10,7	189	178		
			450	2590	2414	14	182	172		
	128023/850BB	5000	250	1517	1414	7,5	199	188		
			350	2083	1942	10,7	191	181		
			450	2626	2448	14	185	174		
SM280/55E33L External connectors	128240/830BB	3000	250	1434	1337	7,5	187	177	30,8	33,5
			350	1969	1836	10,7	181	171		
			450	2482	2314	14	174	165		
	128240/840BB	4000	250	1496	1395	7,5	196	185		
			350	2055	1915	10,7	189	178		
			450	2590	2414	14	182	172		
	128240/850BB	5000	250	1517	1414	7,5	199	188		
			350	2083	1942	10,7	191	181		
			450	2626	2448	14	185	174		
SM560/55E66 Internal connectors	128400/830BB	3000	250	2867	2674	15	187	177	61,6	67
			350	3938	3671	21	181	171		
			450	4965	4627	28	174	165		
	128400/840BB	4000	250	2992	2790	15	196	185		
			350	4109	3831	21	189	178		
			450	5181	4828	28	182	172		
	128400/850BB	5000	250	3033	2829	15	199	188		
			350	4166	3884	21	191	181		
			450	5253	4895	28	185	174		
SM560/55E66L External connectors	128445/830BB	3000	250	2867	2674	15	187	177	61,6	67
			350	3938	3671	21	181	171		
			450	4965	4627	28	174	165		
	128445/840BB	4000	250	2992	2790	15	196	185		
			350	4109	3831	21	189	178		
			450	5181	4828	28	182	172		
	128445/850BB	5000	250	3033	2829	15	199	188		
			350	4166	3884	21	191	181		
			450	5253	4895	28	185	174		

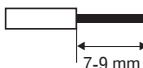
The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



Standard connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.

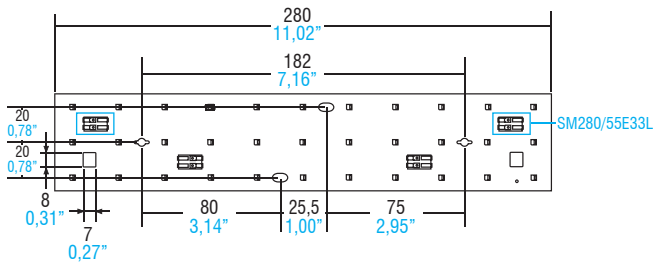


Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

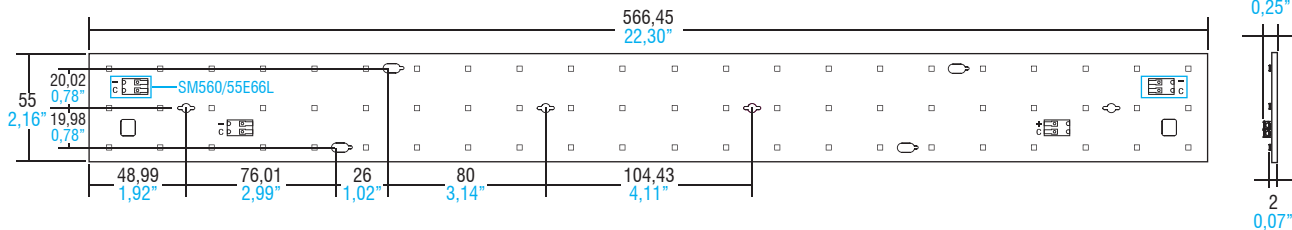
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

Technical features - Caratteristiche tecniche

SM280/55E33 - SM280/55E33L (Weight/Peso 1,69 oz. / gr. 48 - Pcs/Pezzi 96)

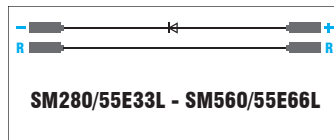
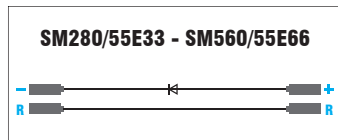


SM560/55E66 - SM560/55E66L (Weight/Peso 3,45 oz. / gr. 98 - Pcs/Pezzi 48)



Zhaga compatible holes

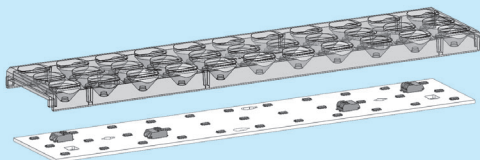
Wiring - Cablaggio



Accessories - Accessori

LINEA FLAT 33LED / LINEA BOXED 33LED

280 mm / 1 ft



Article Articolo	LINEA FLAT 33LED 30°	LINEA FLAT 33LED 60°	LINEA FLAT 33LED 90°	LINEA FLAT 33LED DOUBLE ASYMM.
Code Codice	468780112	468780113	468780114	468780115

Article Articolo	LINEA BOXED 33LED 30°	LINEA BOXED 33LED 60°	LINEA BOXED 33LED 90°	LINEA BOXED 33LED DOUBLE ASYMM.
Code Codice	468780143	468780144A	468780145A	468780146A

PLASTIC END PLUGS	Cod. 488787435
-------------------	----------------

LINEA BOXED 33LED IP65 Only for SM280/55E33 - SM280/55E33L

Article Articolo	LINEA BOXED 33LED IP65 25°	LINEA BOXED 33LED IP65 60°	LINEA BOXED 33LED IP65 90°	GASKET IP65
Code Codice	468780303	468780304	468780305	468780306

REFLECTORS

Article Articolo	PIXEL 3x11 30° ASY	PIXEL 3x11 30° DA	PIXEL 3x11 ME	PIXEL 3x11 60° EXTRA WIDE	PIXEL 3x11 90° ULTRA WIDE	PLASTIC END PLUGS
Code Codice	468780333	468780334	468780335	468780336	468780337	488787435

For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Main features

- Combinable high-quality modules for a smart, versatile design. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > 80.000 h.
- High efficiency: up to 199 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e versatile. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 199 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: www.tci.it

1.2

LINEAR LIGHTING



> 80.000 h @ tc=85 °C



**CRI**  
> 80  
> 90 available online

**Available (CCT) colour temperature**  
3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 ° (without lens)

**Ambient temperature**  
ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature**  
tc: 85 °C

**Absolute maximum operating current:**  
400 mA (LM280/24E28)  
800 mA (LM560/24E56)  
1600 mA (LM1120/24E112)

**Standards compliance**  
CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

LM280/24E28



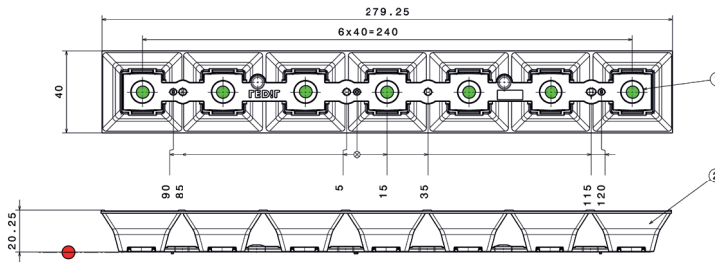
LM560/24E56



LM1120/24E112



Compatible with DAISY lens - LEDiL - Compatibile con lente DAISY - LEDiL



Article Articollo	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
LM280/24E28	131007/830BB	3000	100	743	693	3,7	195	185	37,8	40
			250	1446	1348	7,7	184	174		
			350	2421	2256	14	170	160		
	131007/840BB	4000	100	775	723	3,7	204	193		
			250	1509	1407	7,7	192	182		
			350	2526	2354	14	177	167		
	131007/850BB	5000	100	786	733	3,7	206	195		
			250	1530	1426	7,7	195	184		
			350	2561	2387	14	180	170		
LM560/24E56	131287/830BB	3000	200	1485	1385	7,4	195	185	37,8	40
			400	2892	2696	15,5	184	174		
			700	4842	4512	28,1	170	160		
	131287/840BB	4000	200	1550	1446	7,4	204	193		
			400	3018	2813	15,5	192	182		
			700	5052	4708	28,1	177	167		
	131287/850BB	5000	200	1572	1466	7,4	206	195		
			400	3060	2853	15,5	195	184		
			700	5123	4773	28,1	180	170		
LM1120/24E112	131288/830BB	3000	400	2971	2771	15	195	185	37,8	40
			800	5784	5392	31	184	174		
			1400	9684	9024	56,2	170	160		
	131288/840BB	4000	400	3100	2891	15	204	193		
			800	6035	5627	31	192	182		
			1400	10105	9416	56,2	177	167		
	131288/850BB	5000	400	3143	2932	15	206	195		
			800	6119	5705	31	195	184		
			1400	10245	9547	56,2	180	170		

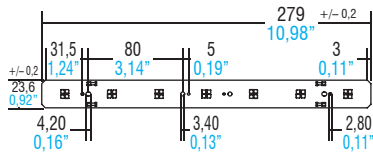
The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



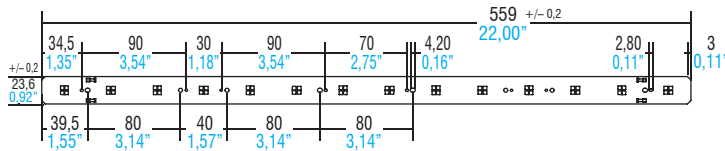


Technical features - Caratteristiche tecniche

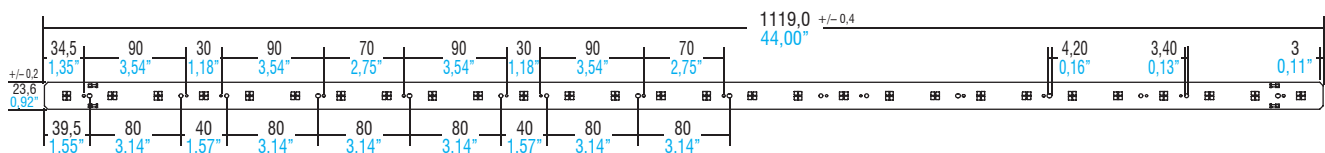
LM280/24E28 (Weight/Peso 1,23 oz. / gr. 35 - Pcs/Pezzi 48)



LM560/24E56 (Weight/Peso 1,65 oz. / gr. 47 - Pcs/Pezzi 96)



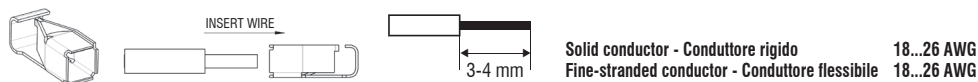
LM1120/24E112 (Weight/Peso 2,61 oz. / gr. 74 - Pcs/Pezzi 96)



Wiring - Cablaggio



Connector



Main features

- Combinable high-quality modules for a smart, versatile design. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for SELV applications only.
- Extended lifetime > 80.000 h.
- High efficiency: up to 206 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e versatile. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei solo per applicazioni SELV.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 206 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

1.2



LM280/23E14



LINEAR LIGHTING



> 80.000 h  
@ tc=85 °C



**CRI**  
> 80  
> 90 available online

**Available (CCT) colour temperature**

3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 ° (without lens)

**Ambient temperature**  
ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

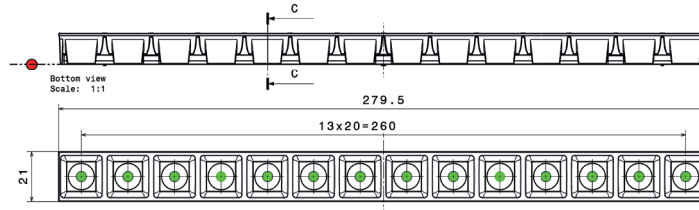
**Module temperature**  
tc: 85 °C

**Absolute maximum operating current:**  
1000 mA

**Standards compliance**

CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

Compatible with MINIDaisy lens - LEDiL - Compatibile con lente MINIDaisy - LEDiL



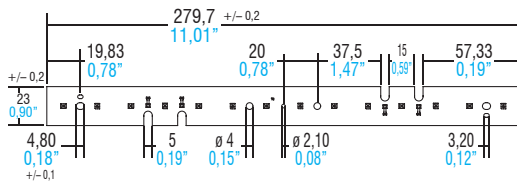
Article Articolo	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
LM280/23E14	131181/830BB	3000	350	371	346	1,9	195	185	5,4	6
			500	525	489	2,7	190	180		
			700	723	674	3,9	184	174		
	131181/840BB	4000	350	388	361	1,9	204	193		
			500	548	511	2,7	198	188		
			700	754	703	3,9	192	182		
	131181/850BB	5000	350	393	366	1,9	206	195		
			500	555	518	2,7	201	190		
			700	765	713	3,9	195	184		

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



## Technical features - Caratteristiche tecniche

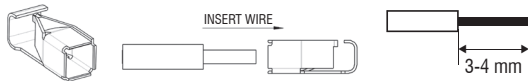
LM280/24E28 (Weight/Peso 0,77 oz. / gr. 22 - Pcs/Pezzi 48)



## Wiring - Cablaggio



## Connector



Solid conductor - Conduttore rigido 18...26 AWG  
 Fine-stranded conductor - Conduttore flessibile 18...26 AWG

## Main features

- Combinable high-quality modules for a smart, versatile design. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for SELV applications only.
- Extended lifetime > 80.000 h.
- High efficiency: up to 206 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

## Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e versatile. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei solo per applicazioni SELV.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 206 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

# LM280/20E32 - LM560/20E64 - TUNABLE WHITE

TUNABLE WHITE series - Linear modules

Made in Italy

UL US EN 15

1.3

LINEAR LIGHTING

UP TO  
**194**  
lm/W

**L80**  
**B20**

> 80.000 h  
@ tc=85 °C

**TW**  
TUNABLE WHITE

ENERGY  
CLASS C

**CRI**  
>80  
>90 available online

**Available (CCT)**  
**colour temperature**  
From 2700K to 6500K

**Beam angle**  
120 °

**Ambient temperature**  
**ta:** -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature**  
**tc:** 85 °C

**Absolute maximum**  
**operating current:**  
640+640 mA

**Standards compliance**  
CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

LM280/20E32



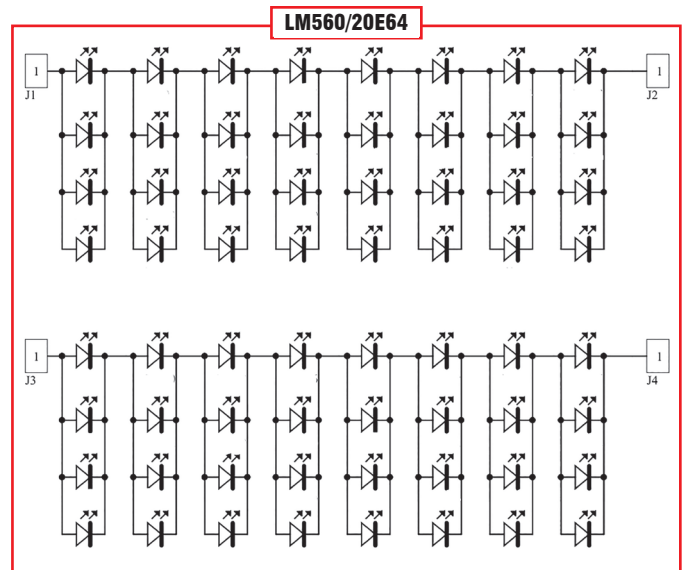
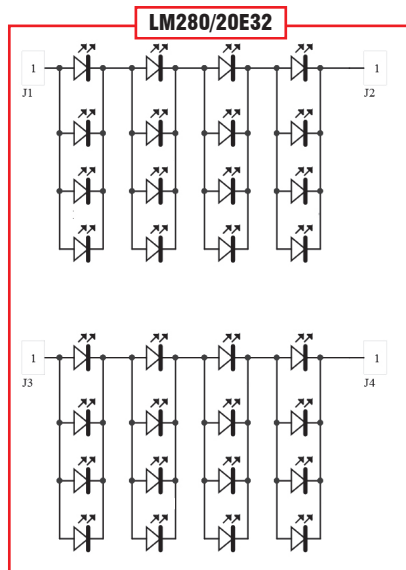
LM560/20E64



constant  
CURRENT

Article Articolo	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Average Efficacy tc 25°C lm/W	Average Efficacy tc 65°C lm/W	Vmax. tc 25°C @Imax
LM280/20E32	128341/8T3BB	2700/6500	250+250	516+554	481+517	2,7	194	184	12,5+12,5
			350+350	711+764	663+712	3,8	188	178	
			500+500	988+1062	921+990	5,5	181	171	
LM560/20E64	128294/8T3BB	2700/6500	250+250	1032+1109	962+1034	5,4	194	184	25+25
			350+350	1422+1528	1326+1425	7,7	188	178	
			500+500	1977+2124	1843+1980	11,1	181	171	

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



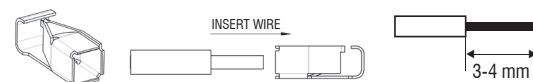
**7**  
YEARS  
WARRANTY  
3% FAILURE RATE

**10**  
YEARS  
WARRANTY  
5% FAILURE RATE

PRODUCER'S LIABILITY  
TCI

POWERED WITH ELECTRONICS  
WARRANTY 10 YEARS  
ACCORDING TO  
TCI CAREFULNESS  
CONDITIONS

Connector

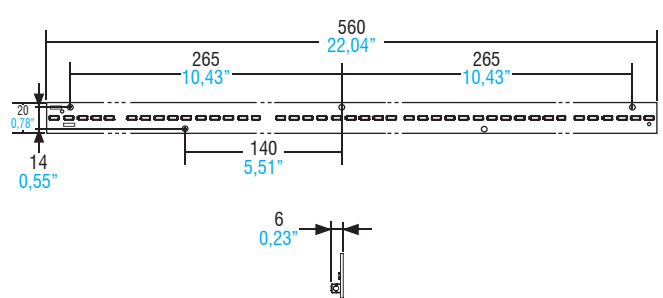
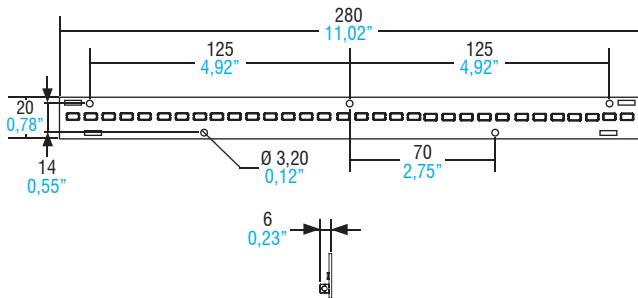


Solid conductor - Conduttore rigido 28...22 AWG  
Fine-stranded conductor - Conduttore flessibile 28...22 AWG

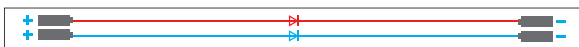
Technical features - Caratteristiche tecniche

LM280/20E32 (Weight/Peso 0,63 oz. / gr. 18 - Pcs/Pezzi 72)

LM560/20E64 (Weight/Peso 1,31 oz. / gr. 37 - Pcs/Pezzi 72)

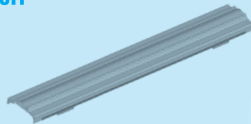


Wiring - Cablaggio



Accessories - Accessori

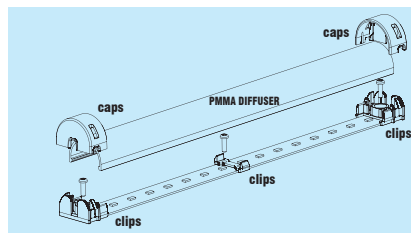
LINEA CLIP  
280 mm / 1 ft



For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Beam Angle Angolo di orientamento	30°	60°	90°	20° ASYM	±20° Double asymmetric
Code - Codice	468780231	468780232	468780233	468780234	468780235

CAPS FOR PMMA CLIP LENSES	Grey 468780236	Transparent 468780236T
---------------------------	----------------	------------------------



Methacrylate (PMMA) diffuser cover. Cover efficiency 90%.  
Cover diffondente in metacrilato (PMMA). Efficienza cover 90%.

Code - Codice	Length - Lunghezza
128998/280	280 mm / 1 ft
128998/560	560 mm / 2 ft
128998/1120	1120 mm / 4 ft
128998/1400	1400 mm / 5 ft

KIT Testatine e Clip di fissaggio  
Fixing Caps and Clips KIT

Code - Codice	128999
---------------	--------

Main features

- Combinable high-quality modules for a smart, performant design. Ideal also for extensive applications. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > 80.000 h.
- High efficiency: up to 194 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e performante, anche estensivo. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 194 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

# LM279/22E48 - LM559/22E96 - TUNABLE WHITE



TUNABLE WHITE series - Linear modules

Made in Italy



1.3

LINEAR LIGHTING

UP TO  
**194**  
lm/W

**L80**  
**B20**

> 80.000 h  
@ tc=85 °C

**TW**  
TUNABLE WHITE



**CRI**  
>80  
>90 available online

**Available (CCT) colour temperature**  
From 2700K to 6500K

**Beam angle**  
120 °

**Ambient temperature**  
ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature**  
tc: 85 °C

**Absolute maximum operating current:**  
640+640 mA

**Standards compliance**  
CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

LM279/22E48

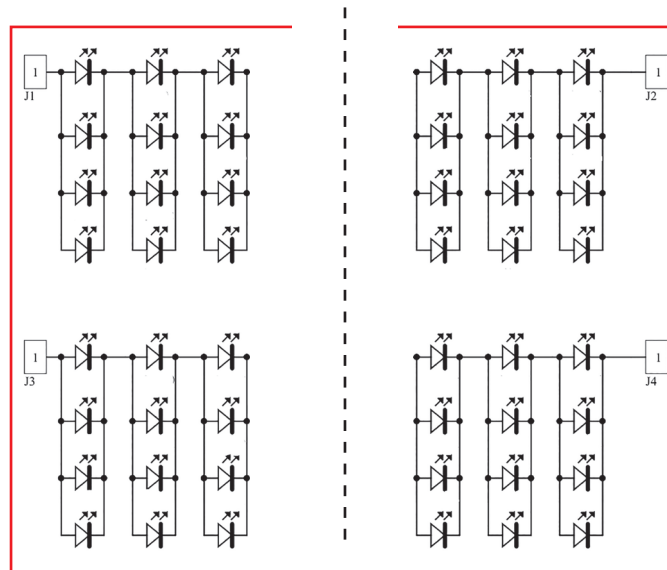


LM559/22E96



Article Articollo	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Everage Efficacy tc 25°C lm/W	Everage Efficacy tc 65°C lm/W	Vmax. tc 25°C @Imax
LM279/22E48	128797/8T3BB	2700/6500	250+250	774+832	722+776	4	194	184	16,8+16,8
			350+350	1066+1146	994+1068	5,8	188	178	
			500+500	1483+1593	1382+1485	8,3	181	171	
LM559/22E96	128798/8T3BB	2700/6500	250+250	1548+1663	1443+1551	8,1	194	184	33,6+33,6
			350+350	2133+2292	1989+2137	11,5	188	178	
			500+500	2965+3186	2764+2970	16,7	181	171	

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



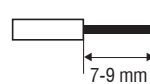
**7 YEARS WARRANTY**  
3% FAILURE RATE

**10 YEARS WARRANTY**  
5% FAILURE RATE

Standard connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

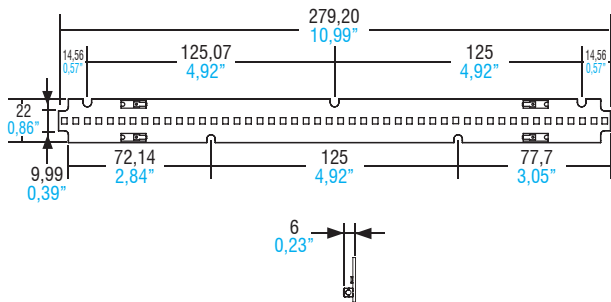
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>



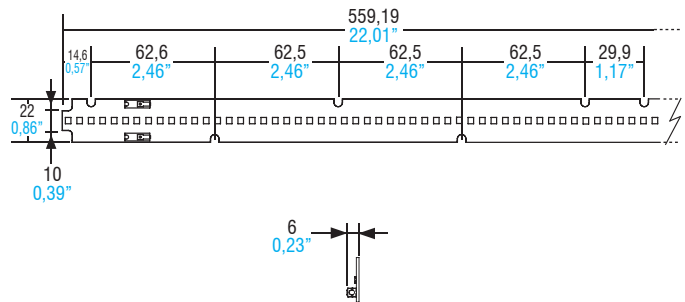
## TUNABLE WHITE series - Linear modules

### Technical features - Caratteristiche tecniche

**LM279/22E48** (Weight/Peso 0,63 oz. / gr. 18 - Pcs/Pezzi 72)



**LM559/22E96** (Weight/Peso 1,31 oz. / gr. 37 - Pcs/Pezzi 72)



LINEAR LIGHTING

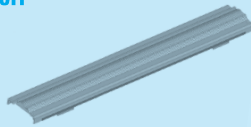
Zhaga compatible holes

### Wiring - Cablaggio



### Accessories - Accessori

**LINEA CLIP**  
280 mm / 1 ft



For technical details **SEE SECTION 4**. Per dettagli tecnici **VEDI SEZIONE 4**.

Beam Angle Angolo di orientamento	30°	60°	90°	20° ASYM	±20° Double asymmetric
Code - Codice	468780231	468780232	468780233	468780234	468780235
<b>CAPS FOR PMMA CLIP LENSES</b>	<b>Grey</b> 468780236		<b>Transparent</b> 468780236T		

### Main features

- Combinable high-quality modules for a smart, performant design. Ideal also for extensive applications. Perfect light uniformity.
- Ideal for **residential, office, retail and industrial lighting**.
- SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > **80.000 h**.
- High efficiency: **up to 194 lm/W**.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

### Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e performante, anche estensivo. Luce perfettamente uniforme.
- Moduli ideali per **illuminazione residenziale, uffici, spazi commerciali e industriali**.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > **80.000 h**.
- Elevata efficienza: **fino a 194 lm/W**.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)





# SPACE LIGHTING

## Everywhere You are TCI is coming

100% Made in Italy, manufactured with accurately selected components of the highest quality only. TCI multi-shaped LED modules are developed to fulfil the request for versatile lighting solutions intended to be used in a plurality of indoor applications, from the retail to the office and free-time environments. TCI Space solutions are divided into subcategories on a "shape" basis:

### SQUARE AND RECTANGULAR MODULES (SM)

#### FINGER MODULES (FM)

#### ROUND MODULES (RM)

TCI offers series of LED modules to provide a complete customer-and-market oriented products range:

**Smart LED modules** are the most competitive solution, the perfect compromise between cost and performance. Our Smart modules guarantee a > 80.000 h lifetime.

**Smart Pro LED modules** are the top-line solution, the perfect balancing between cost and top performance. Our Smart Pro modules guarantee a > 80.000 h lifetime.

To complete our offer, we provide our Customers with a selection of first-class optics and lenses for linear solutions. All TCI modules are provided with a 7-10 years warranty as stated in the Warranty section of this catalogue and covered by the Decennial Producer Liability.

*100% Made in Italy, fabbricati unicamente con componenti di elevatissima qualità accuratamente selezionati, i moduli LED TCI della categoria Space sono pensati per soddisfare la richiesta di soluzioni di illuminazione versatili che si adattino ad una pluralità di applicazioni indoor, dagli spazi commerciali alle strutture dedicate al tempo libero. Le soluzioni Space di TCI sono divise in sottocategorie in base alla loro forma:*

### MODULI QUADRATI E RATTANGOLARI (SM)

#### MODULI FINGER (FM)

#### MODULI TONDI (RM)

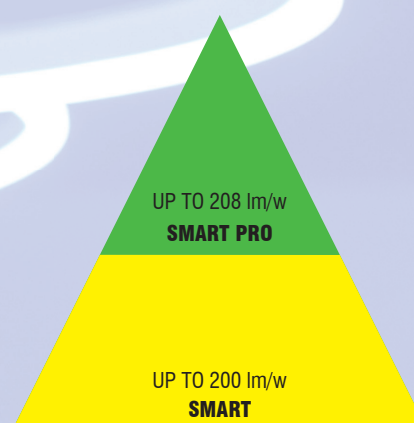
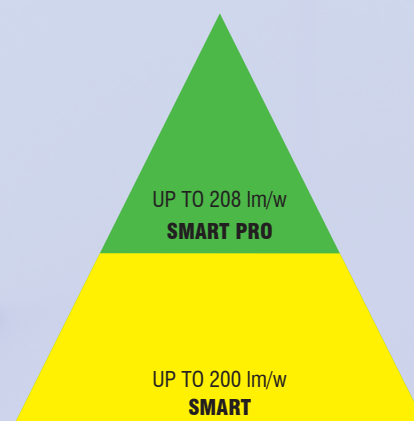
*Per garantire una gamma di prodotti completa ed orientata sia al cliente che al mercato, TCI offre diverse serie di moduli LED:*

*I moduli Smart sono la soluzione più competitiva, il perfetto compromesso tra costo e prestazioni. I nostri moduli Smart garantiscono un lifetime > 80.000 h.*

*I moduli Smart Pro sono la soluzione top di gamma, il perfetto bilanciamento tra costo e prestazioni elevate. I nostri moduli Smart Pro garantiscono un lifetime > 80.000 h.*

*A completamento della nostra offerta proponiamo ai nostri Clienti una selezione di ottiche e lenti di prima qualità per le nostre soluzioni lineari.*

*Tutti i moduli TCI sono provvisti di garanzia di 7-10 anni come indicato nella Sezione Garanzia del presente catalogo e sono coperti da Responsabilità Decennale del Produttore.*



2.1

SPACE LIGHTING



> 80.000 h  
@ tc=85 °C



CRI

> 80  
> 90 available online

**Available (CCT) colour temperature**

3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 °

**Ambient temperature**  
ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

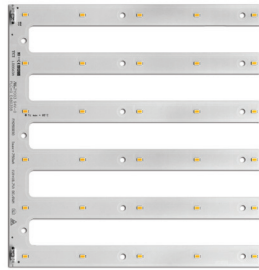
**Module temperature**  
tc: 85 °C

**Absolute maximum operating current:**  
800 mA

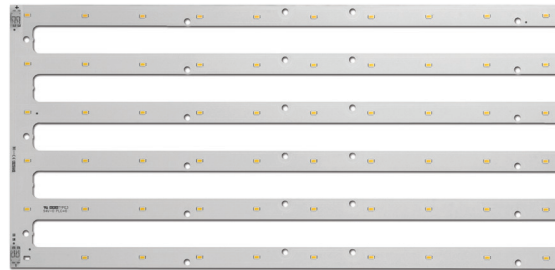
**Standards compliance**

CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

FM250/245E30



FM490/233E60

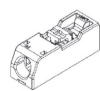


Article Articolò	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
FM250/245E30	128122/830BB	3000	350	1103	1028	5,7	190	180	16,7	18,1
			500	1549	1444	8,3	184	174		
			700	2119	1975	11,8	176	166		
	128122/840BB	4000	350	1151	1073	5,7	199	188		
			500	1617	1507	8,3	192	182		
			700	2211	2061	11,8	184	174		
	128122/850BB	5000	350	1167	1088	5,7	201	191		
			500	1639	1528	8,3	195	184		
			700	2242	2089	11,8	186	176		
FM490/233E60	128231/830BB	3000	350	2206	2057	11,4	190	180	33,3	36,2
			500	3098	2889	16,6	184	174		
			700	4238	3950	23,7	176	167		
	128231/840BB	4000	350	2302	2146	11,4	199	188		
			500	3233	3014	16,6	192	182		
			700	4422	4121	23,7	184	174		
	128231/850BB	5000	350	2334	2176	11,4	201	191		
			500	3278	3056	16,6	195	184		
			700	4483	4179	23,7	186	176		

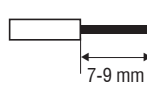
The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



Standard connector



Insert/remove wires by slightly pressing on push-button. Inserire/rimuovere i cavi premendo leggermente sul pulsante.



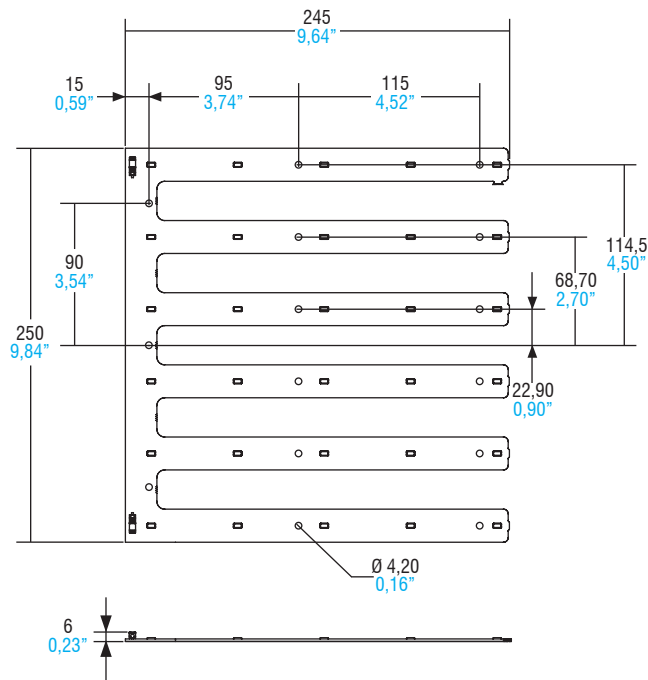
Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

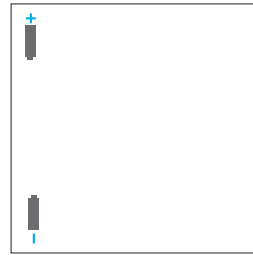


Technical features - Caratteristiche tecniche

FM250/245E30 (Weight/Peso 3,20 oz. / gr. 91 - Pcs/Pezzi 60)



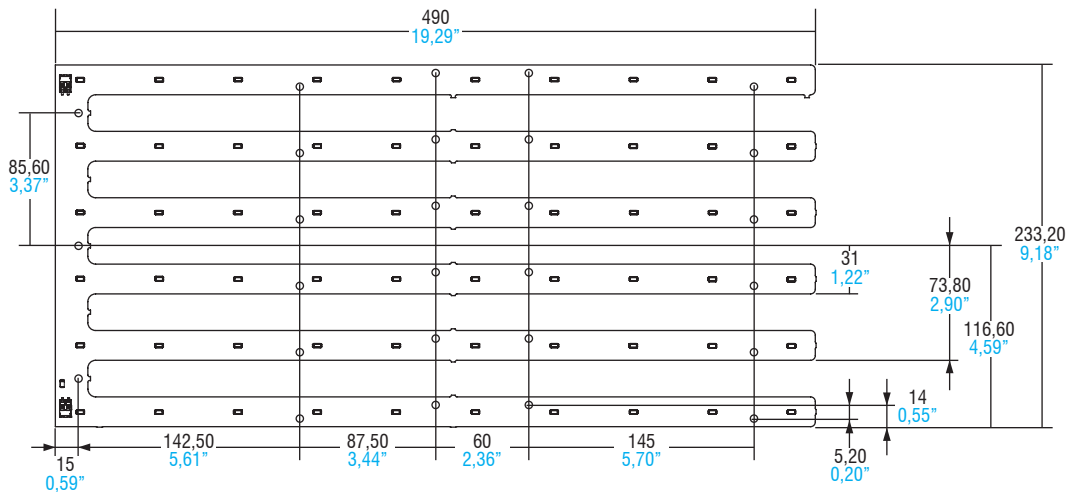
Wiring - Cablaggio FM250/245E30



Wiring - Cablaggio FM490/233E60



FM490/233E60 (Weight/Peso 6,53 oz. / gr. 185 - Pcs/Pezzi 40)



Main features

- Combinable high-quality modules for a smart, versatile design. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications.
- Extended lifetime > 80.000 h.
- High efficiency: up to 201 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e versatile. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 201 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

2.1

SPACE LIGHTING



> 80.000 h  
@ tc=85 °C



CRI

> 80  
> 90 available online

**Available (CCT) colour temperature**

3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 °

**Ambient temperature ta:** -40...+55 °C  
(Only for tc ≤ 85 °C)

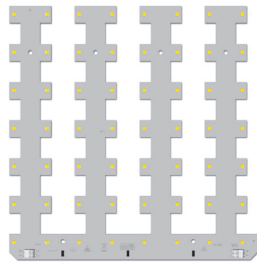
**Module temperature tc:** 85 °C

**Absolute maximum operating current:**  
1280 mA

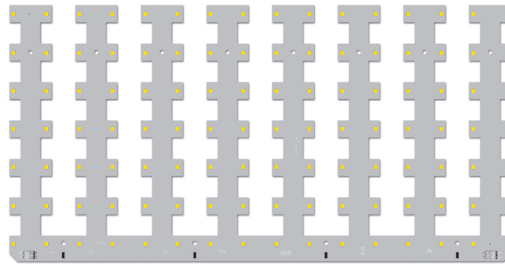
**Standards compliance**

CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

FM255/260E56



FM510/260E112



Article Articollo	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
FM255/260E56	128803/830BB	3000	350	1303	1216	6,5	197	186	19,8	21,2
			700	2548	2376	13,4	187			
			1000	3727	3474	20,6	178			
	128803/840BB	4000	350	1360	1269	6,5	205	194		
			700	2659	2480	13,4	195	184		
			1000	3889	3625	20,6	186	176		
	128803/850BB	5000	350	1379	1286	6,5	208	197		
			700	2696	2514	13,4	198	187		
			1000	3943	3675	20,6	188	178		
FM510/260E112	128710/830BB	3000	350	2607	2431	13	197	186	39,8	42,4
			500	3691	3442	19	192	182		
			700	5097	4753	27	186	176		
	128710/840BB	4000	1050	7454	6948	41,2	178	168		
			350	2720	2537	13	205	194		
			500	3851	3592	19	200	190		
	128710/850BB	5000	700	5319	4959	27	195	184		
			1050	7778	7250	41,2	186	175		
			350	2758	2572	13	208	197		
	128710/850BB	5000	500	3905	3641	19	203	192		
			700	5392	5028	27	197	187		
			1050	7886	7351	41,2	188	178		

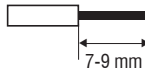
The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



Standard connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

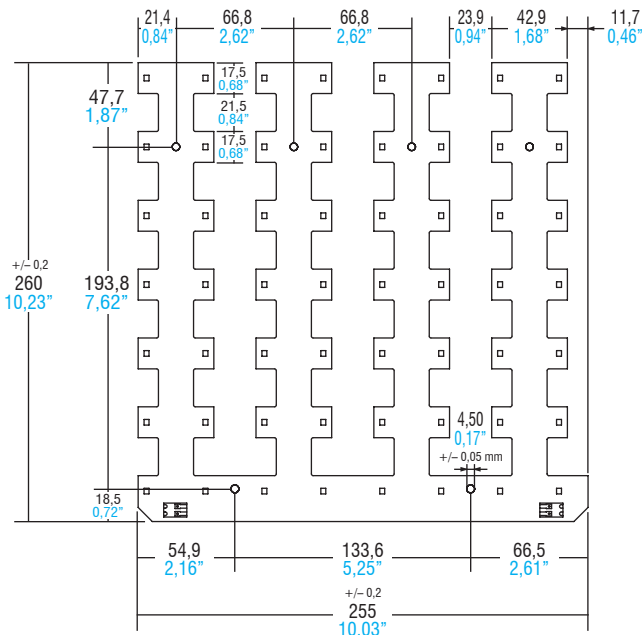
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>



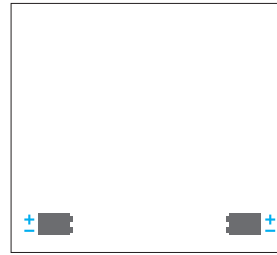
SMART PRO series - Finger modules

Technical features - Caratteristiche tecniche

FM255/260E56 (Weight/Peso 6,53 oz. / gr. 185 - Pcs/Pezzi 50)



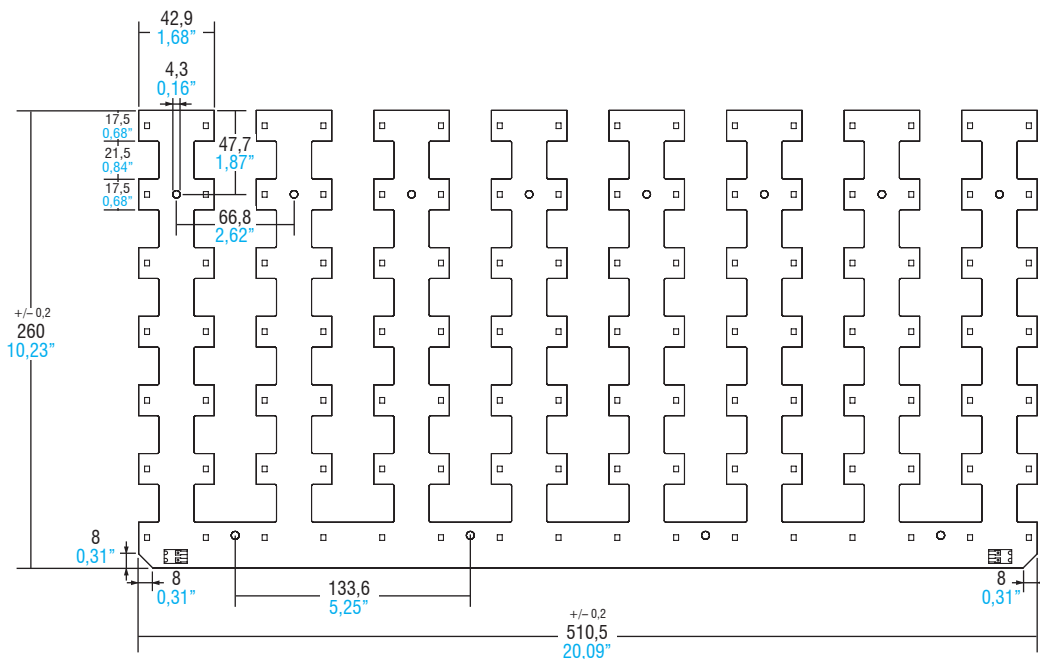
Wiring - Cablaggio FM255/260E56



Wiring - Cablaggio FM510/260E112



FM510/260E112 (Weight/Peso 6,98 oz. / gr. 198 - Pcs/Pezzi 20)



Main features

- Combinable high-quality modules for a smart, versatile design. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications.
- Extended lifetime > 80.000 h.
- High efficiency: up to 208 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e versatile. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 208 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

# SM270/254E144 - TUNABLE WHITE

TUNABLE WHITE series - Square modules

Made in Italy

2.2

SPACE LIGHTING

UP TO  
202  
lm/W

L80  
B20

> 80.000 h  
@ tc=85 °C

TW  
TUNABLE WHITE

ENERGY

D

Only for 128518/8T3H

ENERGY

C

Only for 128518/8T3BB

CRI

> 80

> 90 available online

Available (CCT)  
colour temperature

2700/6500 K

3000/4000 K

on request - su richiesta

Beam angle

120 °

Ambient temperature

Ta: -40...+55 °C

(Only for tc ≤ 85 °C)

Module temperature

Tc: 85 °C

Absolute maximum  
operating current:

2000 + 2000 mA

Standards compliance

CSA-C22.2 no.250

EN 55015

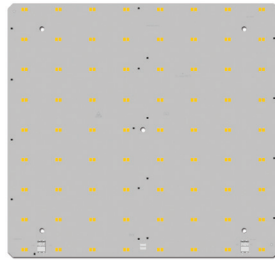
EN 62031

EN 62471

IEC TR 62778

UL 8750

SM270/254E144



constant  
CURRENT

Article Articolo	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Average Efficacy tc 25°C lm/W	Average Efficacy tc 65°C lm/W	Vmax. tc 25°C @Imax
SM270/254E144	128518/8T3H	2700/6500	500+500	990/1070	925/1000	5.3+5.3	192	181	11.8+11.8
			700+700	1380/1490	1280/1300	7.5+7.5	188	178	
			1000+1000	2040/2210	1900/2060	11.5+11.5	183	173	
			1400+1400	2670/2890	2500/2700	15.5+15.5	177	168	
SM270/254E144	128518/8T3BB	2700/6500	500+500	1047/1125	976/1049	5.3+5.3	202	191	11.8+11.8
			700+700	1453/1562	1356/1457	7.5+7.5	200	189	
			1000+1000	2035/2187	1898/2040	11.5+11.5	196	185	
			1400+1400	2816/3026	2626/2822	15.5+15.5	191	181	

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.

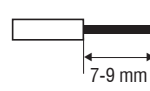
7  
YEARS  
WARRANTY  
3% FAILURE RATE

10  
YEARS  
WARRANTY  
5% FAILURE RATE

Standard  
connector



Insert/remove wires by slightly  
pressing on push-button.  
Inserire/rimuovere i cavi premendo  
leggermente sul pulsante.



Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar -  
Conduttore flessibile con boccia con isolamento in plastica

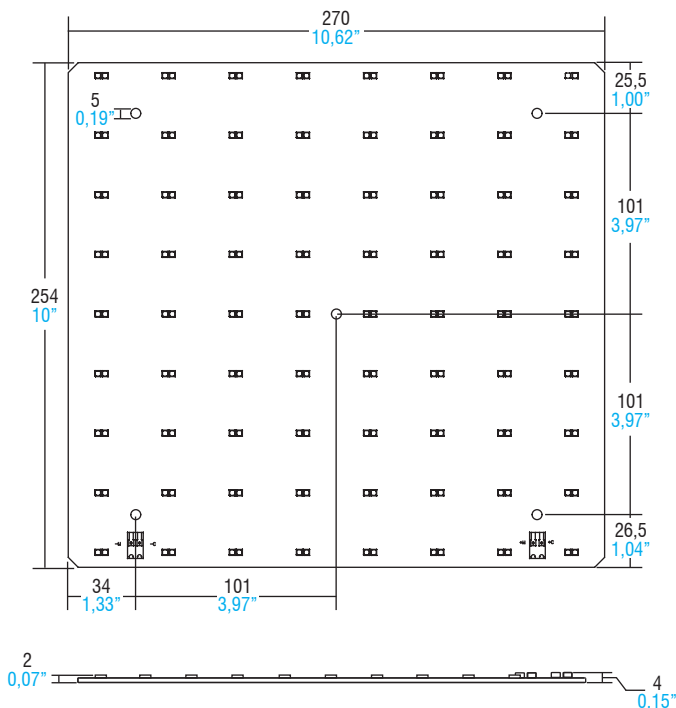
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

PRODUCER'S LIABILITY  
TCI

WARRANTY 10 YEARS  
ACCORDING TO  
THE EUROPEAN  
CONDITIONS

### Technical features - Caratteristiche tecniche

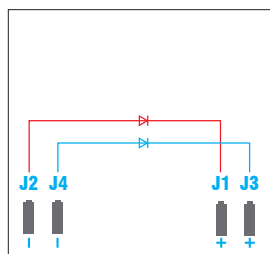
SM270/254E144 (Weight/Peso 7,33 oz. / gr. 208 - Pcs/Pezzi 30)



**2.2**

SPACE LIGHTING

### Wiring - Cablaggio



### Main features

- Tunable white modules, with adjustable CCT. Ideal also for extensive design.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications.
- Extended lifetime > 80.000 h.
- High efficiency: up to 202 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

### Caratteristiche principali

- Moduli tunable white, con temperatura di colore regolabile. Ideali anche per un design estensivo.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 202 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

# 2.3

SPACE LIGHTING



> 80.000 h  
@ tc=85 °C



**CRI**  
>80  
>90 available online

**Available (CCT) colour temperature**  
3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 °

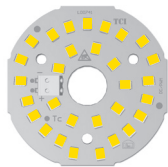
**Ambient temperature**  
ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature**  
tc: 85 °C

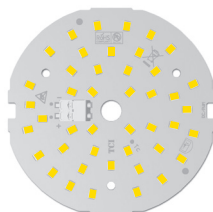
**Absolute maximum operating current:**  
RM50E30 - 450 mA  
RM80E44 - 600 mA  
RM120E55 - 800 mA

**Standards compliance**  
CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

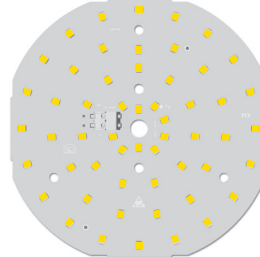
RM50E30



RM80E44



RM120E55



Article Articolò	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
RM50E30	128811/830H	3000	200	961	888	5,2	178	168	28	29,5
			300	1381	1277	8	167	157		
			400	1770	1636	11	157	148		
	128811/840H	4000	200	1011	935	5,2	187	176		
			300	1454	1344	8	176	165		
			400	1863	1722	11	166	156		
	128811/850H	5000	200	1026	949	5,2	190	179		
			300	1475	1364	8	178	168		
			400	1890	1747	11	168	158		
RM80E44	128839/830H	3000	250	1328	1228	7,2	179	169	30,6	32,5
			350	1800	1665	10,3	171	161		
			500	2458	2272	15	160	150		
	128839/840H	4000	250	1398	1293	7,2	189	178		
			350	1895	1753	10,3	180	169		
			500	2587	2391	15	168	158		
	128839/850H	5000	250	1418	1312	7,2	192	181		
			350	1922	1778	10,3	182	172		
			500	2624	2425	15	171	161		
RM120E55	128877/830H	3000	350	1841	1703	10,2	177	166	30,8	33
			500	2532	2341	14,8	167	157		
			800	3781	3494	24,6	150	141		
	128877/840H	4000	350	1938	1793	10,2	186	175		
			500	2666	2465	14,8	176	165		
			800	3980	3678	24,6	158	149		
	128877/850H	5000	350	1966	1818	10,2	189	178		
			500	2704	2500	14,8	178	168		
			800	4037	3730	24,6	161	151		

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.

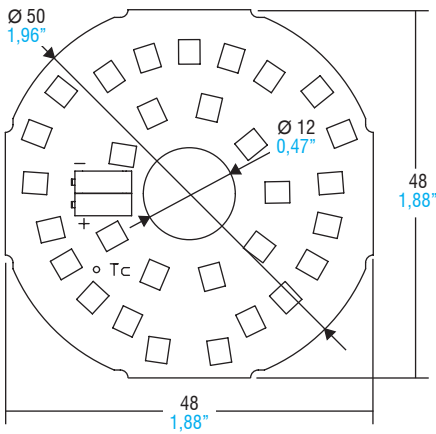




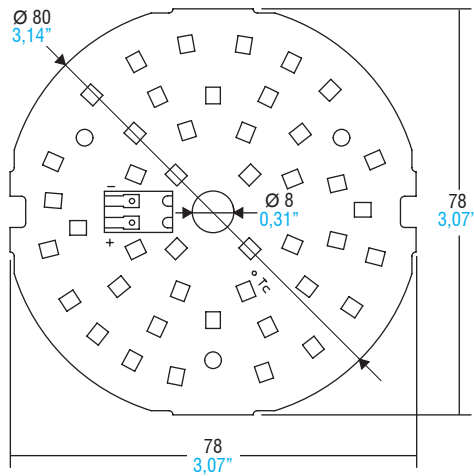
SMART series - Round modules

Technical features - Caratteristiche tecniche

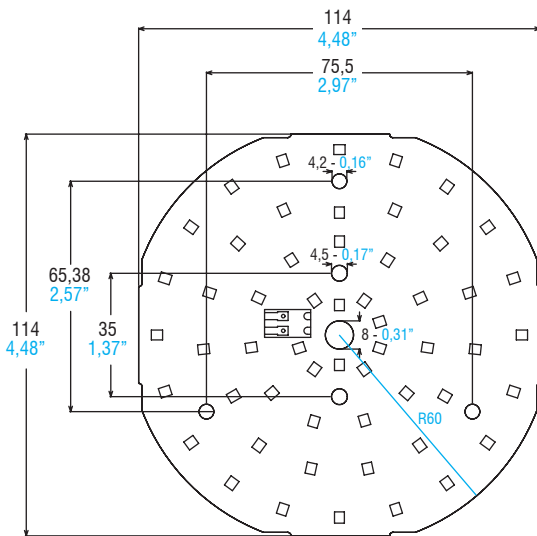
RM50E30 (Weight/Peso 0,24 oz. / gr. 7 - Pcs/Pezzi 60)



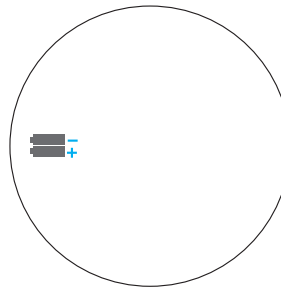
RM80E44 (Weight/Peso 0,56 oz. / gr. 16 - Pcs/Pezzi 60)



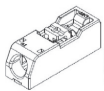
RM120E55 (Weight/Peso 0,74 oz. / gr. 21 - Pcs/Pezzi 40)



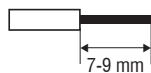
Wiring - Cablaggio



Connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



Solid conductor - Conduttore rigido

Fine-stranded conductor - Conduttore flessibile

Fine-stranded conductor with ferrule with plastic collar -

Conduttore flessibile con boccia con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG

0,2...0,75 mm<sup>2</sup> / 24...18 AWG

0,25...0,34 mm<sup>2</sup>

ONLY FOR RM50E30

0,14...0,34 mm<sup>2</sup> / 26...22 AWG

0,14...0,34 mm<sup>2</sup> / 26...22 AWG

Main features

- Combinable modules for an optimal, versatile design. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications.
- Extended lifetime > 80.000 h.
- High efficiency: up to 192 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili per un design ottimale e versatile. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 192 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

2.3

SPACE LIGHTING



> 80.000 h  
@ tc=85 °C



**CRI**  
> 80  
> 90 available online

**Available (CCT) colour temperature**  
3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 °

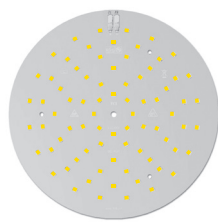
**Ambient temperature**  
ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature**  
tc: 85 °C

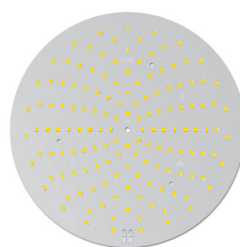
**Absolute maximum operating current:**  
RM160E78 - 900 mA  
RM220E143 - 1650 mA  
RM320E85 - 2100 mA

**Standards compliance**  
CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

RM160E78



RM220E143



RM320E85

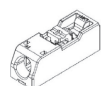


Article Articolò	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
RM160E78	128964/830H	3000	250	1614	1493	8,4	188	177	36,2	38,5
			500	3056	2826	17,4	172	162		
			700	4106	3796	24,8	162	153		
	128964/840H	4000	250	1699	1571	8,4	198	186		
			500	3217	2975	17,4	181	171		
			700	4322	3996	24,8	171	161		
	128964/850H	5000	250	1723	1594	8,4	200	189		
			500	3263	3017	17,4	184	173		
			700	4384	4053	24,8	173	163		
RM220E143	128965/830H	3000	500	3211	2971	17	186	176	35,7	38,5
			700	4388	4059	24	179	169		
			1050	6320	5844	36,8	168	159		
	128965/840H	4000	500	3380	3127	17	196	185		
			700	4619	4272	24	188	178		
			1050	6653	6152	36,8	177	167		
	128965/850H	5000	500	3429	3172	17	199	187		
			700	4685	4333	24	191	180		
			1050	6748	6240	36,8	180	169		
RM320E85	128344/830H	3000	700	2087	1930	11	184	174	16,7	18,1
			1400	3914	3619	23	167	157		
			2100	5538	5118	35,5	153	144		
	128344/840H	4000	700	2197	2032	11	194	183		
			1400	4120	3809	23	176	165		
			2100	5829	5387	35,5	161	151		
	128344/850H	5000	700	2228	2061	11	197	186		
			1400	4178	3864	23	178	168		
			2100	5912	5464	35,5	163	154		

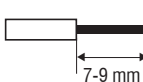
The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



Standard connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

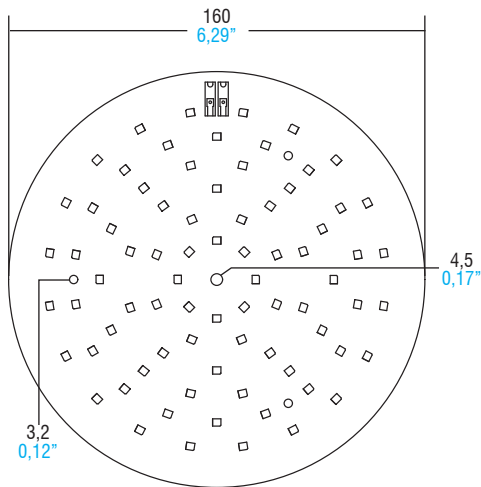
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>



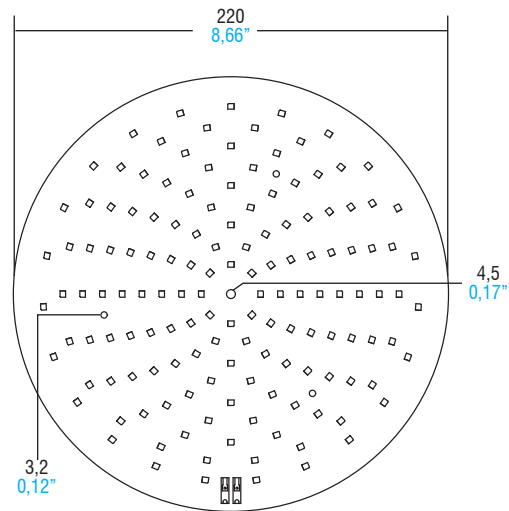
SMART series - Round modules

Technical features - Caratteristiche tecniche

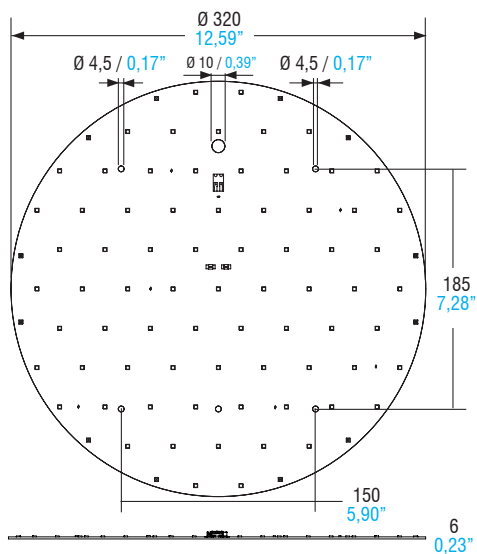
RM160E78 (Weight/Peso 2,4 oz. / gr. 67 - Pcs/Pezzi 40)



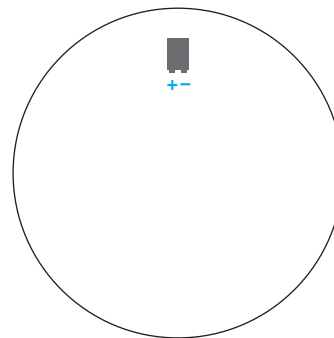
RM220E143 (Weight/Peso 3,4 oz. / gr. 97 - Pcs/Pezzi 20)



RM320E85 (Weight/Peso 7,3 oz. / gr. 207 - Pcs/Pezzi 30)



Wiring - Cablaggio



2.3

SPACE LIGHTING

Main features

- Combinable modules for an optimal, versatile design. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications.
- Extended lifetime > 80.000 h.
- High efficiency: up to 200 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili per un design ottimale e versatile. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 200 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

# RM522E98 - RM812E252 - RM1072E140

## SMART series - Round modules



> 80.000 h  
@ tc=85 °C



**CRI**  
> 80  
> 90 available online

**Available (CCT) colour temperature**

3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 °

**Ambient temperature**  
ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature**  
tc: 85 °C

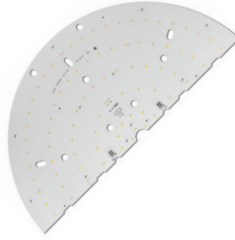
**Absolute maximum operating current:**  
2240 mA

**Standards compliance**  
CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

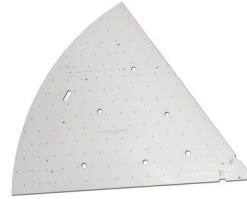
RM522E98



RM812E252



RM1072E140



Article Articolò	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
RM522E98	128306/830H	3000	700	2406	2226	12,7	184	174	19,6	21,23
			1400	4512	4172	26,5	167	157		
			2100	6385	5901	41	153	144		
	128306/840H	4000	700	2553	2343	12,7	194	183		
			1400	4750	4392	26,5	176	165		
			2100	6721	6211	41	161	152		
	128306/850H	5000	700	2569	2376	12,7	197	186		
			1400	4818	4454	26,5	178	168		
			2100	6817	6300	41	163	154		
RM812E252	128342/830H	3000	700	6187	5723	32,9	184	174	53,1	57,7
			1400	11603	10728	68	167	157		
			2100	16417	15173	105,2	153	144		
	128342/840H	4000	700	6513	6024	32,9	194	183		
			1400	12213	11293	68	176	165		
			2100	17281	15972	105,2	161	152		
	128342/850H	5000	700	6606	6110	32,9	197	186		
			1400	12388	11454	68	178	168		
			2100	17528	16200	105,2	163	154		
RM1072E140	128343/830H	3000	700	3437	3179	18,2	184	174	28	30,4
			1400	6446	5960	37,8	167	157		
			2100	9121	9121	58,4	153	144		
	128343/840H	4000	700	3618	3347	18,2	194	183		
			1400	6785	6274	37,8	176	165		
			2100	9601	8873	58,4	161	152		
	128343/850H	5000	700	3670	3395	18,2	197	186		
			1400	6882	6363	37,8	178	168		
			2100	9738	9000	58,4	163	154		

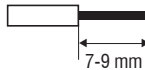
The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



Standard connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

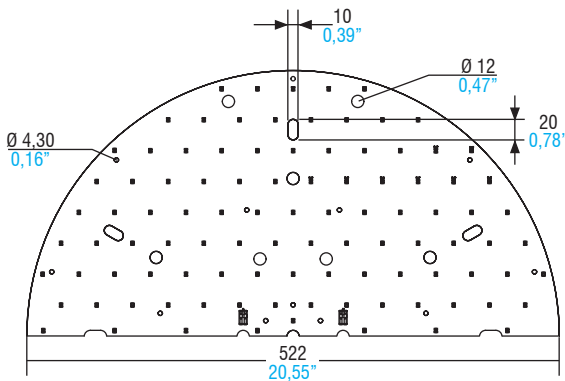
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>



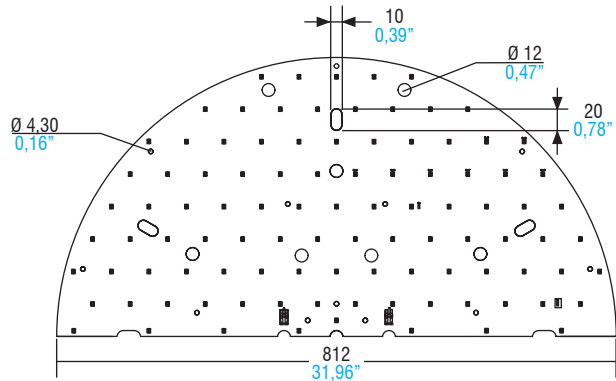
SMART series - Round modules

Technical features - Caratteristiche tecniche

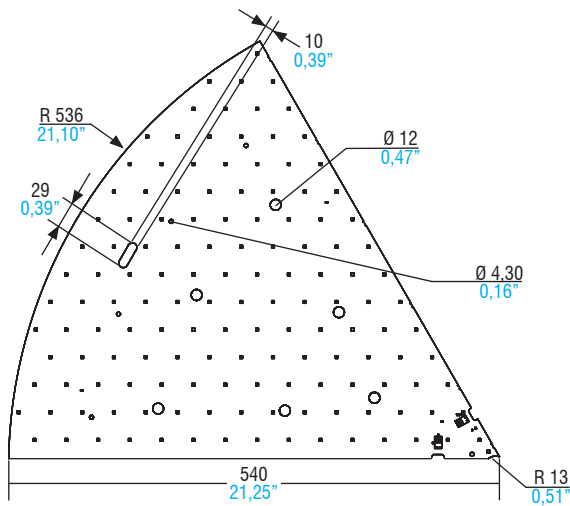
RM522E98 (Weight/Peso 11,3 oz. / gr. 321 - Pcs/Pezzi 15)



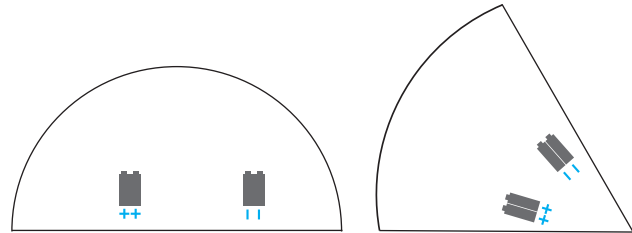
RM812E252 (Weight/Peso 27,69 oz. / gr. 785 - Pcs/Pezzi 12)



RM1072E140 (Weight/Peso 16,2 oz. / gr. 460 - Pcs/Pezzi 25)



Wiring - Cablaggio



2.3

SPACE LIGHTING

Main features

- Combinable high-quality modules for a smart, versatile design. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications.
- Extended lifetime > 80.000 h.
- High efficiency: up to 197 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e versatile. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 197 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

# RM420E286 - RM522E220



Round modules - High density

Made in Italy



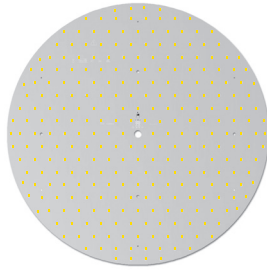
UP TO  
209  
lm/W



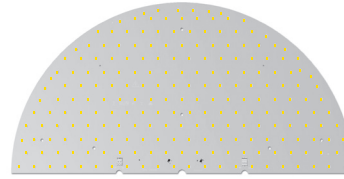
2.3

SPACE LIGHTING

RM420E286



RM522E220



**CRI**  
>80  
>90 available online

**Available (CCT) colour temperature**  
3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 °

**Ambient temperature**  
ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature**  
tc: 85 °C

**Absolute maximum operating current:**  
1200 mA

**Standards compliance**  
CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

Article Articollo	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
RM420E286	128931/830AX	3000	350	2405	2228	12	195	184	33,9	36,8
			700	4579	4242	25,3	178	168		
			900	5673	5255	33	169	159		
	128931/840AX	4000	350	2536	2350	12	205	194		
			700	4829	4473	25,3	187	177		
			900	5982	5542	33	178	168		
	128931/850AX	5000	350	2580	2390	12	209	197		
			700	4912	4550	25,3	191	180		
			900	6085	5637	33	181	171		
RM522E220	128932/830AX	3000	350	1850	1714	9,3	195	184	26,1	28,3
			700	3522	3263	19,4	178	168		
			900	4364	4042	25,3	169	159		
	128932/840AX	4000	350	1951	1808	9,3	205	194		
			700	3714	3441	19,4	187	177		
			900	4602	4263	25,3	178	168		
	128932/850AX	5000	350	1984	1839	9,3	209	197		
			700	3778	3500	19,4	191	180		
			900	4681	4336	25,3	181	171		

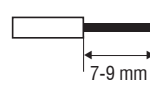
The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



Standard connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccia con isolamento in plastica

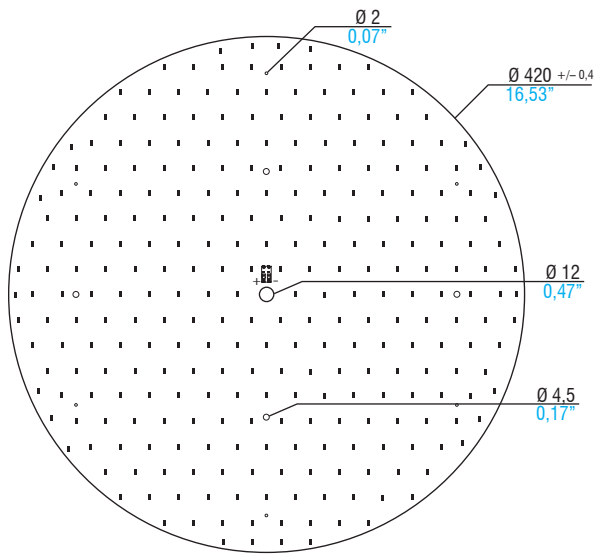
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>



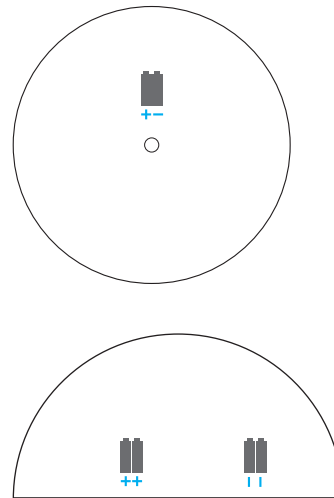
Round modules - High density

Technical features - Caratteristiche tecniche

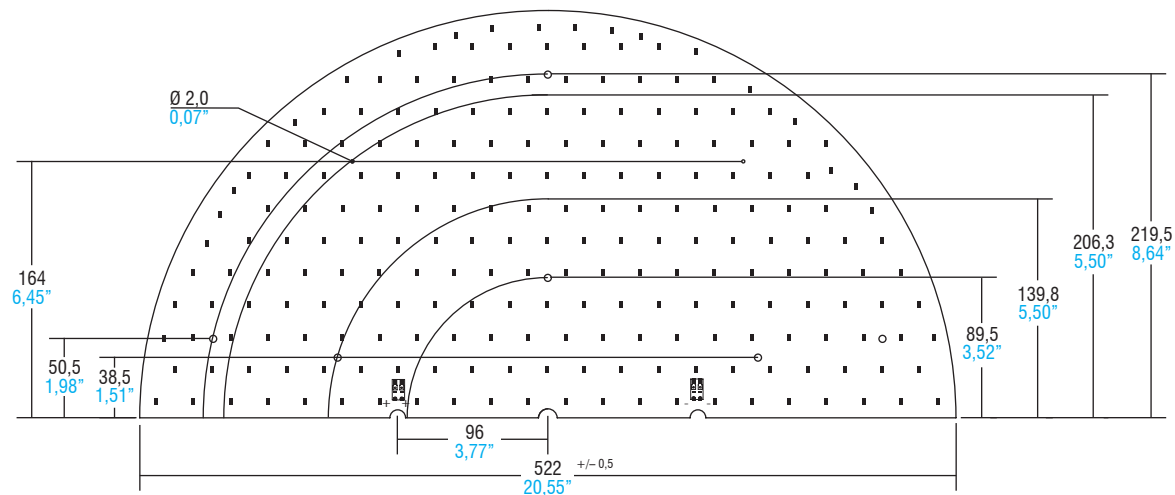
RM420E286 (Weight/Peso 12,7 oz. / gr. 361 - Pcs/Pezzi 25)



Wiring - Cablaggio



RM522E220 (Weight/Peso 9,8 oz. / gr. 278 - Pcs/Pezzi 15)



Main features

- Combinable high-quality modules for a smart, versatile design. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications.
- Extended lifetime > 50.000 h.
- High efficiency: up to 209 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e versatile. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV.
- Lifetime esteso > 50.000 h.
- Elevata efficienza: fino a 209 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

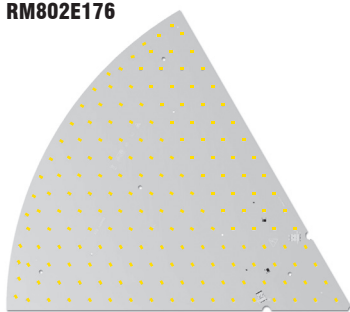
**UP TO 209**  
lm/W

**ENERGY**  
C

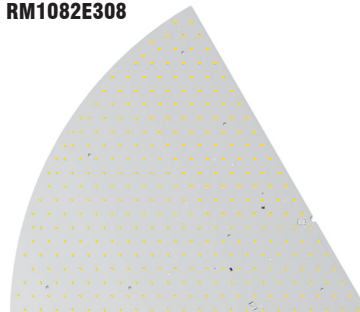
2.3

SPACE LIGHTING

RM802E176



RM1082E308



constant CURRENT

**CRI**

>80  
>90 available online

**Available (CCT) colour temperature**

3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**

120 °

**Ambient temperature**

ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature**

tc: 85 °C

**Absolute maximum operating current:**

1200 mA

**Standards compliance**

CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

Article Articolò	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
RM802E176	128912/830AX	3000	350	1480	1371	7,4	195	184	24,8	26,4
			700	2818	2610	15,5	178	168		
			900	3491	3234	20,3	169	159		
	128912/840AX	4000	350	1561	1446	7,4	205	194		
			700	2971	2753	15,5	187	177		
			900	3681	3410	20,3	178	168		
	128912/850AX	5000	350	1588	1471	7,4	209	197		
			700	3023	2800	15,5	191	180		
			900	3745	3469	20,3	181	171		
RM1082E308	128933/830AX	3000	350	2560	2390	13,7	187	177	43,3	46,2
			700	4880	4540	28,0	174	165		
			900	6100	5680	36,5	167	158		
	128933/840AX	4000	350	2690	2510	13,7	196	186		
			700	5130	4780	28,0	183	173		
			900	6420	5980	36,5	176	166		
	128933/850AX	5000	350	2750	2560	13,7	201	190		
			700	5230	4870	28,0	187	176		
			900	6540	6090	36,5	179	170		

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.

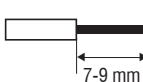
**7 YEARS WARRANTY**  
3% FAILURE RATE

**10 YEARS WARRANTY**  
5% FAILURE RATE

Standard connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

PRODUCER'S LIABILITY  
**TCI**

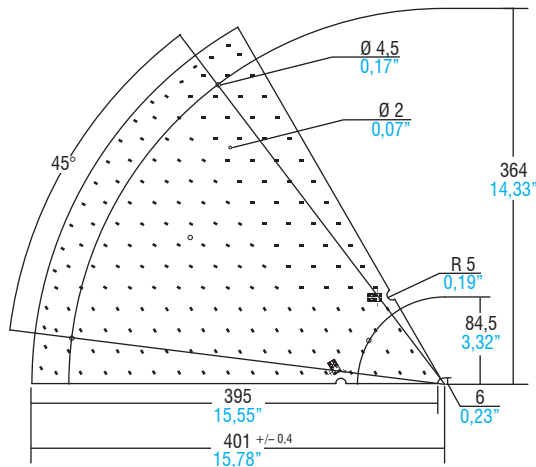
WARRANTY WITH ELECTRONICS  
**10 YEARS**  
ACCORDING TO THE EUROPEAN CONDITIONS



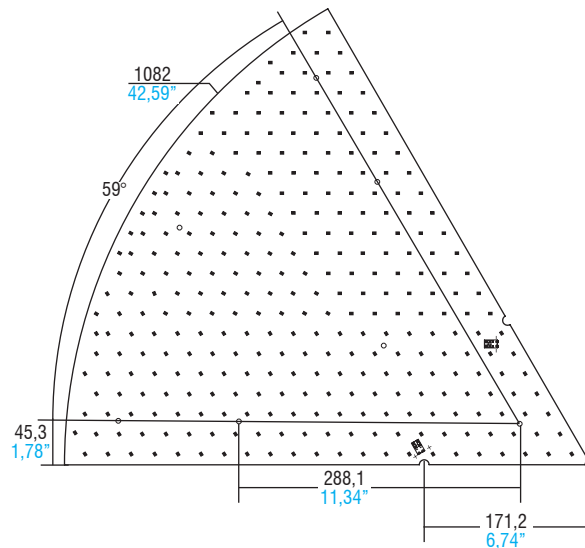
Round modules - High density

Technical features - Caratteristiche tecniche

RM802E176 (Weight/Peso 7,83 oz. / gr. 222 - Pcs/Pezzi 15)



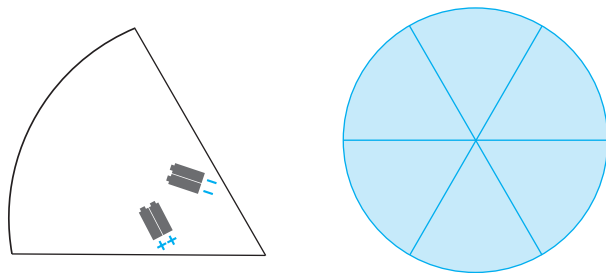
RM1082E308 (Weight/Peso 14,2 oz. / gr. 405 - Pcs/Pezzi 20)



2.3

SPACE LIGHTING

Wiring - Cablaggio



6 pieces are needed to compose a complete circle  
Sono necessari 6 pezzi per comporre un cerchio completo

Main features

- Combinable high-quality modules for a smart, versatile design. Perfect light uniformity.
- Ideal for residential, office, retail and industrial lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications.
- Extended lifetime > 50.000 h.
- High efficiency: up to 209 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli combinabili di elevata qualità per un design smart e versatile. Luce perfettamente uniforme.
- Moduli ideali per illuminazione residenziale, uffici, spazi commerciali e industriali.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV.
- Lifetime esteso > 50.000 h.
- Elevata efficienza: fino a 209 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)



# OUTDOOR & INDUSTRIAL LIGHTING

## Safety and Reliability are our focus

Drive change with our innovative LED modules: reliability, energy saving and visibility for a safe journey to progress.

Highest precision, extreme accuracy and reliability are the main concepts underlying the key word leading us in the development of all our solutions: safety.

TCl street modules are the best in terms of performance and trustworthiness. Our complete solutions include the best selection of optics and lenses specific for street lighting.

All TCl modules are provided with a 7-10 years warranty as stated in the Warranty section of this catalogue and covered by the Decennial Producer Liability.

*Guida il cambiamento con i nostri moduli LED all'avanguardia: affidabilità, risparmio energetico e visibilità per un viaggio sicuro verso il progresso.*

*Massima precisione, estrema nitidezza ed affidabilità sono i concetti che sottendono la parola chiave che ci guida nello sviluppo di tutte le nostre soluzioni outdoor: sicurezza.*

*I moduli stradali TCl sono i migliori in termini di performance ed affidabilità. Le nostre soluzioni complete includono la migliore selezione di ottiche e lenti specifiche per l'illuminazione stradale.*

*Tutti i moduli TCl sono provvisti di garanzia di 7-10 anni come indicato nella Sezione Garanzia del presente catalogo e sono coperti da Responsabilità Decennale del Produttore.*

## Outdoor & Industrial modules

Made in Italy

CE US

PLUS

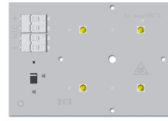
UP TO  
**210**  
lm/W

L90  
B10

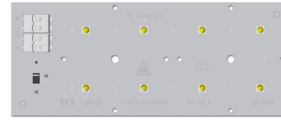
>100.000 h  
@ tc=85 °C

ENERGY  
C

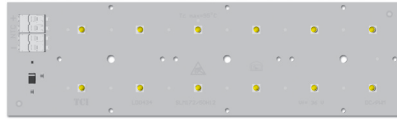
SLM 70/50H4



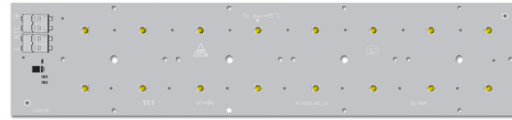
SLM 121/50H8



SLM 172/50H12



SLM 224/50H16



constant  
CURRENT

3.1

OUTDOOR & INDUSTRIAL LIGHTING

**CRI**

- >70
- >80 available online
- >90 on request - su richiesta

**Available (CCT) colour temperature**

- 3000 K
- 4000 K
- 5000 K
- 2700 K on request - su richiesta
- 3500 K on request - su richiesta
- 5700 K on request - su richiesta
- 6500 K on request - su richiesta

**Beam angle**

120 °

**Ambient temperature**

ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature**

tc: 85 °C

**Absolute maximum**

**operating current:**  
1400 mA

**Standards compliance**

- CSA-C22.2 no.250
- EN 55015
- EN 62031
- EN 62471
- IEC TR 62778
- UL 8750

Article Articolò	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
SLM 70/50H4	128497/730I	3000	350	754	711	3,7	198	191	11,8	12,6
			700	1388	1308	7,7	174	168		
			1050	1934	1823	12,3	156	151		
	128497/740I	4000	350	801	755	3,7	210	203		
			700	1475	1390	7,7	185	179		
			1050	2055	1937	12	166	160		
	128497/750I	5000	350	801	755	3,7	210	203		
			700	1475	1390	7,7	185	179		
			1050	2055	1937	12	166	160		
SLM 121/50H8	128498/730I	3000	350	1508	1421	7,4	198	191	22,4	24
			700	2776	2617	15,5	174	168		
			1050	3869	3646	24	156	151		
	128498/740I	4000	350	1602	1510	7,4	210	203		
			700	2950	2780	15,5	185	179		
			1050	4111	3874	24	166	160		
	128498/750I	5000	350	1602	1510	7,4	210	203		
			700	2950	2780	15,5	185	179		
			1050	4111	3874	24	166	160		
SLM 172/50H12	128499/730I	3000	350	2261	2132	11	198	191	35,4	37,8
			700	4164	3925	23,2	174	168		
			1050	5803	5469	36,2	156	150		
	128499/740I	4000	350	2403	2265	11	210	203		
			700	4424	4170	23,2	185	179		
			1050	6166	5811	36,2	166	160		
	128499/750I	5000	350	2403	2265	11	210	203		
			700	4424	4170	23,2	185	179		
			1050	6166	5811	36,2	166	160		
SLM 224/50H16	128500/730I	3000	350	3015	2842	14,8	198	191	44,8	48
			700	5552	5233	31	174	168		
			1050	7738	7292	48,3	156	150		
	128500/740I	4000	350	3204	3020	14,8	210	203		
			700	5899	5560	31	185	179		
			1050	8222	7748	48,3	166	160		
	128500/750I	5000	350	3204	3020	14,8	210	203		
			700	5899	5560	31	185	179		
			1050	8222	7748	48,3	166	160		

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.

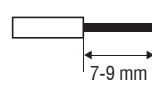
**7 YEARS WARRANTY**  
3% FAILURE RATE

**10 YEARS WARRANTY**  
5% FAILURE RATE

Standard connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

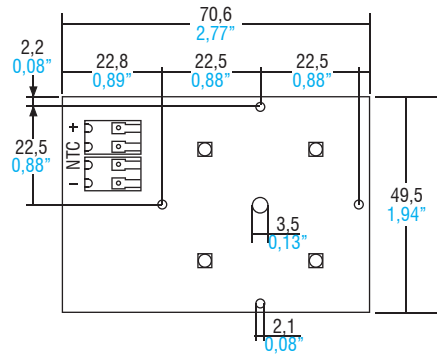
PRODUCER'S LIABILITY  
TCI

WARRANTY WITH ELECTRONICS  
10 YEARS  
ACCORDING TO THE EUROPEAN CONDITIONS

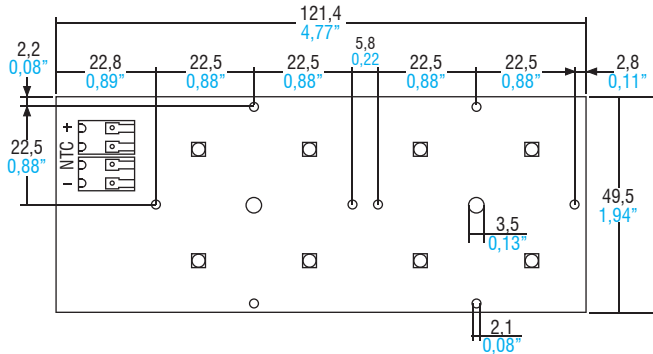
Outdoor & Industrial modules

Technical features - Caratteristiche tecniche

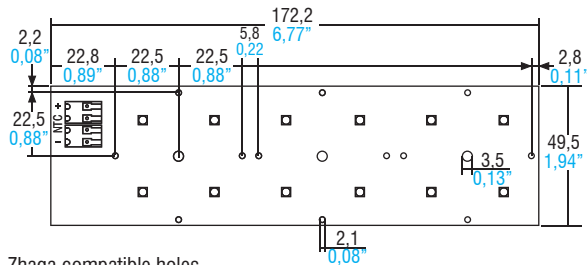
SLM 70/50H4 (Weight/Peso 0,60 oz. / gr. 17 - Pcs/Pezzi 120)



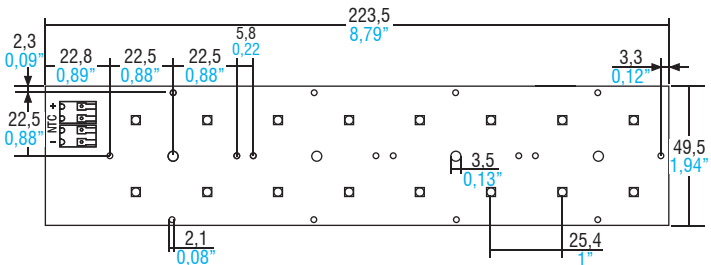
SLM 121/50H8 (Weight/Peso 1,02 oz. / gr. 29 - Pcs/Pezzi 60)



SLM 172/50H12 (Weight/Peso 1,37 oz. / gr. 39 - Pcs/Pezzi 50)



SLM 224/50H16 (Weight/Peso 1,83 oz. / gr. 52 - Pcs/Pezzi 50)



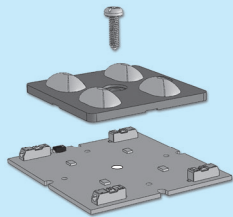
Zhaga compatible holes

Wiring Cablaggio



Accessories - Accessori

2x2 OPTICAL MODULES



For 128497 - 128498

Thermal pad 70x49 mm / SP 0,23 mm	code 489822290
---	-------------------

Thermal pad 121x49 mm / SP 0,23 mm	code 489822291
--	-------------------

For 128499 - 128500

Thermal pad 172x49 mm / SP 0,23 mm	code 489822292
--	-------------------

Thermal pad 223x49 mm / SP 0,23 mm	code 489822293
--	-------------------

For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

HIGH-BAY

Article Articolo	2x2 90°	2x2 50°	2x2 9°	2x2 25°
Code - Codice	468780056	468780059	468780308	468780309

Article Articolo	2x2 50°	2x2 60°	2x2 90°	2x2 165°
Code - Codice	468780311	468780307	468780296	468780317

Main features

- Highly performant modules, ideal for extensive applications where great accuracy is required.
- Ideal for industrial, street and outdoor lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > 100.000 h.
- High efficiency: up to 210 lm/W.
- Minimum colour tolerance: 4MacAdam (4SDCM) - CRI 70. Minimum colour tolerance: 3MacAdam (3SDCM) > CRI 80.
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

Caratteristiche principali

- Moduli altamente performanti, ideali per applicazioni estensive dove sia richiesta estrema precisione.
- Moduli ideali per illuminazione industriale, stradale e da esterno.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > 100.000 h.
- Elevata efficienza: fino a 210 lm/W.
- Minima tolleranza di colore: 4MacAdam (4SDCM) - CRI 70. Minima tolleranza di colore: 3MacAdam (3SDCM) > CRI 80.
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

Outdoor & Industrial modules

Made in Italy 

CE US  15

PLUS 

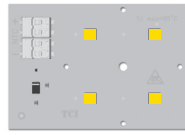
UP TO 223 lm/W

L90 B10

>100.000 h @ tc=85 °C

ENERGY C

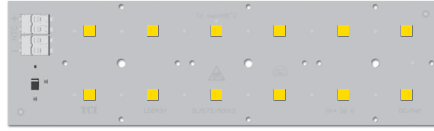
SLM70/50G4



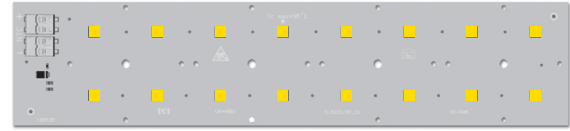
SLM121/50G8



SLM172/50G12



SLM224/50G16



constant CURRENT 

3.1

OUTDOOR & INDUSTRIAL LIGHTING

CRI

- >70
- >80 available online
- >90 on request - su richiesta

Available (CCT) colour temperature

- 3000 K
- 4000 K
- 5000 K
- 2700 K on request - su richiesta
- 3500 K on request - su richiesta
- 5700 K on request - su richiesta
- 6500 K on request - su richiesta

Beam angle

120 °

Ambient temperature

ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

Module temperature

tc: 85 °C

Absolute maximum operating current:

1600 mA

Standards compliance

- CSA-C22.2 no.250
- EN 55015
- EN 62031
- EN 62471
- IEC TR 62778
- UL 8750

Article Articolo	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
SLM70/50G4	128901/727CV	2700	350	792	744	3,8	207	198	11	12,6
			700	1537	1444	8	192	183		
			1050	2236	2100	12	180	171		
	128901/730CV	3000	350	804	755	3,8	210	201		
			700	1560	1465	8	195	186		
			1050	2269	2130	12	182	174		
	128901/740CV	4000	350	851	799	3,8	223	212		
			700	1650	1550	8	206	196		
			1050	2401	2254	12	193	184		
	128901/750CV	5000	350	839	788	3,8	220	209		
			700	1628	1529	8	203	194		
			1050	2368	2223	12	190	181		
SLM121/50G8	128902/727CV	2700	350	1585	1489	7,5	207	198	22	25,2
			700	3075	2888	16	192	183		
			1050	4472	4199	24	180	171		
	128902/730CV	3000	350	1608	1511	7,5	210	201		
			700	3120	2930	16	195	186		
			1050	4538	4261	24	182	174		
	128902/740CV	4000	350	1701	1598	7,5	223	212		
			700	3301	3100	16	206	196		
			1050	4801	4508	24	193	184		
	128902/750CV	5000	350	1678	1576	7,5	220	209		
			700	3256	3058	16	203	194		
			1050	4735	4446	24	190	181		
SLM172/50G12	128903/727CV	2700	350	2377	2233	11,2	207	198	33	37,8
			700	4612	4332	23,5	192	183		
			1050	6708	6299	36,5	180	171		
	128903/730CV	3000	350	2412	2266	11,2	210	201		
			700	4680	4395	23,5	195	186		
			1050	6807	6391	36,5	182	174		
	128903/740CV	4000	350	2552	2397	11,2	223	212		
			700	4951	4650	23,5	206	196		
			1050	7202	6762	36,5	193	184		
	128903/750CV	5000	350	2517	2364	11,2	220	209		
			700	4883	4586	23,5	203	194		
			1050	7103	6669	36,5	190	181		
SLM224/50G16	128904/727CV	2700	350	3169	2977	15	207	198	44	50,4
			700	6149	5775	31,4	192	183		
			1050	8944	8398	48,7	180	171		
	128904/730CV	3000	350	3216	3021	15	210	201		
			700	6240	5860	31,4	195	186		
			1050	9076	8522	48,7	182	174		
	128904/740CV	4000	350	3403	3196	15	223	212		
			700	6602	6200	31,4	206	196		
			1050	9602	9016	48,7	193	184		
	128904/750CV	5000	350	3356	3153	15	220	209		
			700	6511	6115	31,4	203	194		
			1050	9471	8892	48,7	190	181		

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.

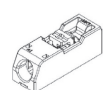
7 YEARS WARRANTY 3% FAILURE RATE

10 YEARS WARRANTY 5% FAILURE RATE

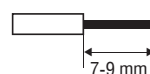
PRODUCER'S LIABILITY TCI

WARRANTY 10 YEARS ACCORDING TO THE EUROPEAN CONDITIONS

Standard connector



Insert/remove wires by slightly pressing on push-button. Inserire/rimuovere i cavi premendo leggermente sul pulsante.



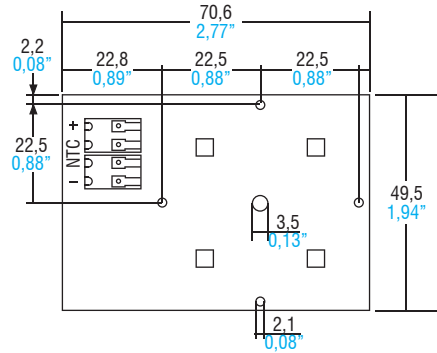
Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>

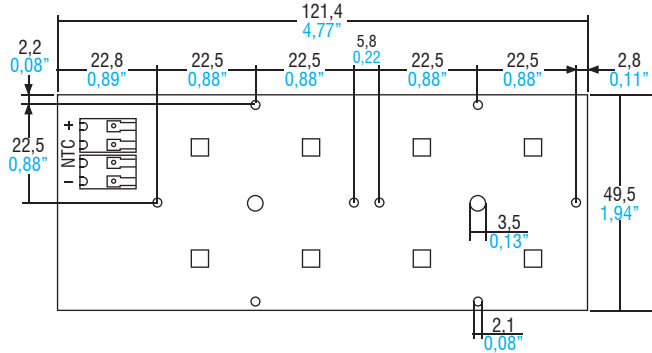
Outdoor & Industrial modules

Technical features - Caratteristiche tecniche

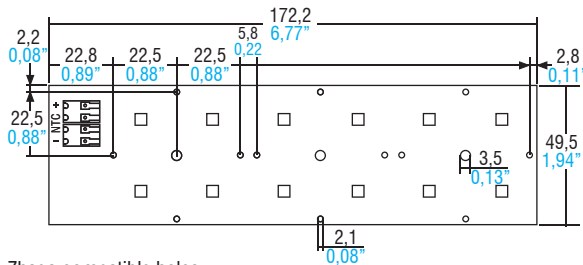
SLM 70/50G4 (Weight/Peso 0,60 oz. / gr. 17 - Pcs/Pezzi 60)



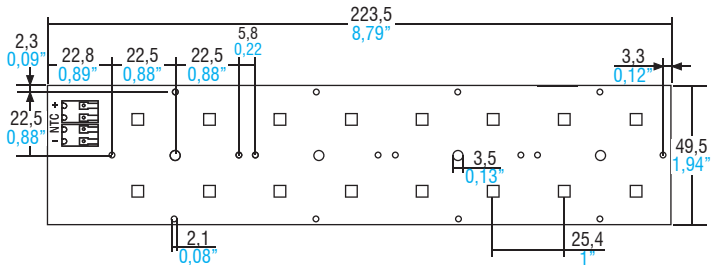
SLM 121/50G8 (Weight/Peso 1,02 oz. / gr. 29 - Pcs/Pezzi 50)



SLM 172/50G12 (Weight/Peso 1,37 oz. / gr. 39 - Pcs/Pezzi 45)



SLM 224/50G16 (Weight/Peso 1,83 oz. / gr. 52 - Pcs/Pezzi 50)



Zhaga compatible holes

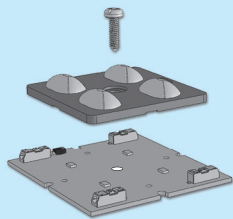
Wiring Cablaggio



3.1  
OUTDOOR & INDUSTRIAL LIGHTING

Accessories - Accessori

2x2 OPTICAL MODULES



STREET

Article Articolo	2x2 ASYMMETRIC	2x2 ELLIPTIC	2x2 120°	2x2 TYPE I	2x2 TYPE II	2x2 TYPE V - 90°	2x2 TYPE III - M
Code - Codice	468780051	468780052	468780053	468780054	468780055	468780056	468780057
Article Articolo	2x2 TYPE IV	2x2 TYPE V - 50°	2x2 TYPE II	2x2 CROSSWALKS	2x2 TYPE I	2x2 TYPE IV	2x2 CROSSWALKS
Code - Codice	468780058	468780059	468780173	468780238	468780254	468780255	468780239
Article Articolo	2x2 TYPE II						
Code - Codice	468780283						

For 128901 - 128902

Thermal pad 70x49 mm / SP 0,23 mm	code 489822290
Thermal pad 121x49 mm / SP 0,23 mm	code 489822291

For 128903 - 128904

Thermal pad 172x49 mm / SP 0,23 mm	code 489822292
Thermal pad 223x49 mm / SP 0,23 mm	code 489822293

HIGH-BAY

Article Articolo	2x2 90°	2x2 50°	2x2 9°	2x2 60°	2x2 90°
Code - Codice	468780056	468780059	468780308	468780307	468780296
Article Articolo	2x2 165°	2x2 25°	2x2 40°	2x2 60°	2x2 165°
Code - Codice	468780317	468780299	468780301	468780302	468780318

For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Main features

- Highly performant modules, ideal for extensive applications where great accuracy is required.
- Ideal for industrial, street and outdoor lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > 100.000 h.
- High efficiency: up to 223 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

Caratteristiche principali

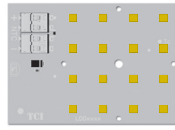
- Moduli altamente performanti, ideali per applicazioni estensive dove sia richiesta estrema precisione.
- Moduli ideali per illuminazione industriale, stradale e da esterno.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > 100.000 h.
- Elevata efficienza: fino a 223 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.



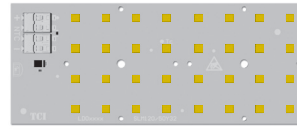
>100.000 h  
@ tc=65 °C



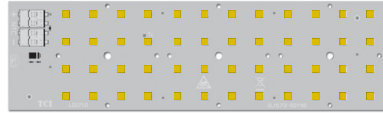
SLM70/50Y16



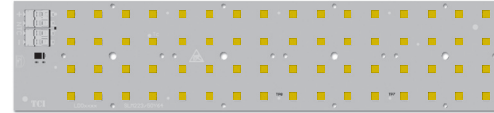
SLM121/50Y32



SLM172/50Y48



SLM224/50Y64



3.1

OUTDOOR & INDUSTRIAL LIGHTING

**CRI**  
>80  
>90 available online

**Available (CCT) colour temperature**  
3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 °

**Ambient temperature**  
ta: -40...+55 °C  
(Only for tc ≤ 85 °C)

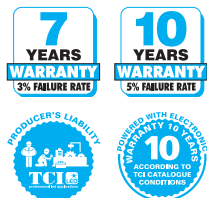
**Module temperature**  
tc: 90 °C

**Absolute maximum operating current:**  
800 mA

**Standards compliance**  
CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

Article Articolo	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
SLM70/50Y16	128793/830V	3000	350	786	755	3,8	202	198	11,3	11,8
			500	1101	1056	5,6	195	191		
			700	1503	1442	7,9	186	183		
	128793/840V	4000	350	829	796	3,8	213	209		
			500	1160	1114	5,6	205	201		
			700	1584	1520	7,9	196	193		
	128793/850V	5000	350	829	796	3,8	213	209		
			500	1160	1114	5,6	205	201		
			700	1584	1520	7,9	196	193		
SLM121/50Y32	128734/830V	3000	350	1572	1509	7,6	202	198	22,5	23,5
			500	2201	2112	11,1	195	191		
			700	3005	2884	15,8	186	183		
	128734/840V	4000	350	1657	1591	7,6	213	209		
			500	2320	2227	11,1	205	201		
			700	3167	3040	15,8	196	193		
	128734/850V	5000	350	1657	1591	7,6	213	209		
			500	2320	2227	11,1	205	201		
			700	3167	3040	15,8	196	193		
SLM172/50Y48	128788/830V	3000	350	2358	2264	11,4	202	198	33,8	35,3
			500	3302	3168	16,7	195	191		
			700	4508	4326	23,7	186	183		
	128788/840V	4000	350	2486	2387	11,4	213	209		
			500	3480	3341	16,7	205	201		
			700	4751	4560	23,7	196	193		
	128788/850V	5000	350	2486	2387	11,4	213	209		
			500	3480	3341	16,7	205	201		
			700	4751	4560	23,7	196	193		
SLM224/50Y64	128725/830V	3000	350	3144	3018	15,2	202	198	45	47
			500	4402	4224	22,2	195	191		
			700	6010	5768	31,6	186	183		
	128725/840V	4000	350	3314	3182	15,2	213	209		
			500	4640	4454	22,2	205	201		
			700	6334	6008	31,6	196	193		
	128725/850V	5000	350	3314	3182	15,2	213	209		
			500	4640	4454	22,2	205	201		
			700	6334	6008	31,6	196	193		

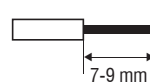
The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.



Standard connector



Insert/remove wires by slightly pressing on push-button. Inserire/rimuovere i cavi premendo leggermente sul pulsante.



Solid conductor - Conduttore rigido  
Fine-stranded conductor - Conduttore flessibile  
Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica

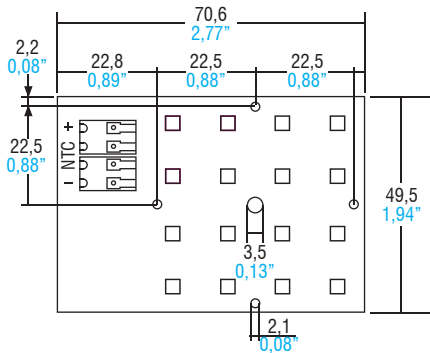
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,2...0,75 mm<sup>2</sup> / 24...18 AWG  
0,25...0,34 mm<sup>2</sup>



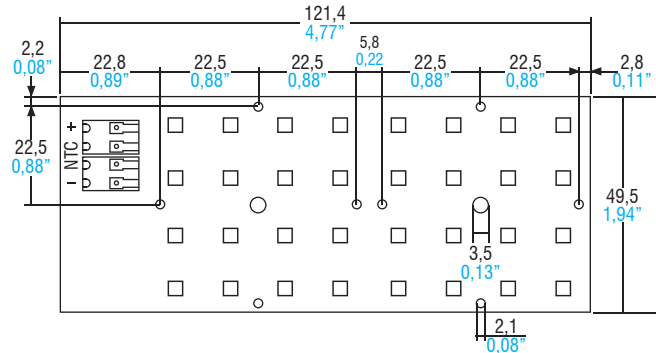
Outdoor & Industrial modules

Technical features - Caratteristiche tecniche

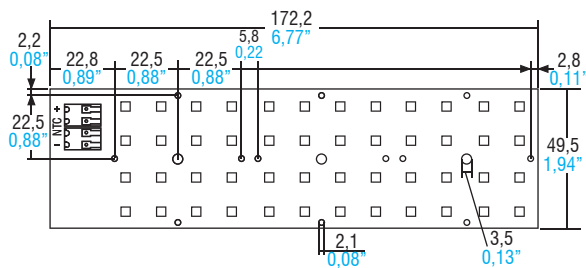
SLM70/50Y16 (Weight/Peso 0,59 oz. / gr. 17 - Pcs/Pezzi 120)



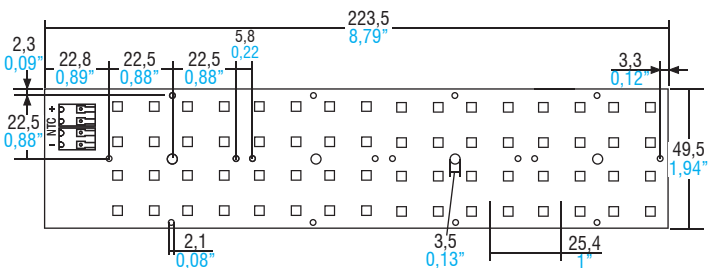
SLM121/50Y32 (Weight/Peso 1,02 oz. / gr. 29 - Pcs/Pezzi 60)



SLM172/50Y48 (Weight/Peso 1,37 oz. / gr. 39 - Pcs/Pezzi 50)



SLM224/50Y64 (Weight/Peso 1,79 oz. / gr. 51 - Pcs/Pezzi 50)



Zhaga compatible holes

Wiring  
Cablaggio

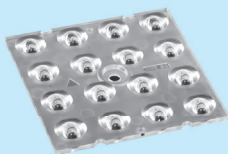


3.1

OUTDOOR & INDUSTRIAL LIGHTING

Accessories - Accessori

4x4 FLEX LENS



STREET

Article	4x4	4x4	4x4	4x4	4x4	4x4
Articolo	ASYM 30°x100°	ASYM NARROW	ASYM ST ECE ME	ASYM TYPE I	ASYM TYPE II	ASYM TYPE III
Code - Codice	468780344	468780345	468780346	468780347	468780348	468780349

Article	4x4	4x4
Articolo	ASYM TYPE Vs	110°x50°
Code - Codice	468780351	468780352

HIGH-BAY

Article	4x4	4x4	4x4	4x4	4x4	4x4
Articolo	ASYM 30°	SYM 55°	SYM 60°	SYM 90°	SYM 95°	SYM 150°
Code - Codice	468780339	468780373	468780342	468780374	468780343	468780375

For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Main features

- Highly performant modules, ideal for extensive applications where great accuracy is required.
- Ideal for industrial, street and outdoor lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > 100.000 h.
- High efficiency: up to 213 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

Caratteristiche principali

- Moduli altamente performanti, ideali per applicazioni estensive dove sia richiesta estrema precisione.
- Moduli ideali per illuminazione industriale, stradale e da esterno.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > 100.000 h.
- Elevata efficienza: fino a 213 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

# SLM146/45H12 - SLM146/45G12

## Outdoor & Industrial modules

Made in Italy

CE US EN 15

PLUS

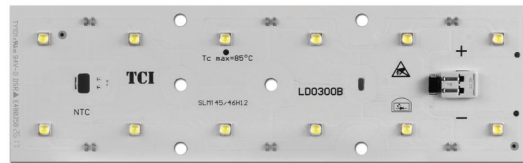
UP TO  
**223**  
lm/W

**L90 B10**

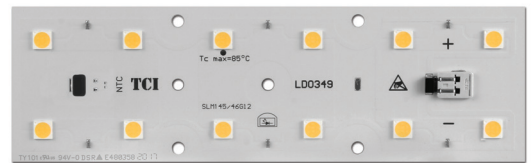
>100.000 h  
@ tc=85 °C

**ENERGY**  
C

SLM146/45H12 - 3535 LEDs



SLM146/45G12 - 5050 LEDs



3.1

OUTDOOR & INDUSTRIAL LIGHTING



constant  
**CURRENT**

**CRI**  
>70  
>80 available online  
>90 on request - su richiesta

**Available (CCT) colour temperature**

3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
120 °

**Ambient temperature**  
**ta:** -40...+55 °C  
(Only for tc ≤ 85 °C)

**Module temperature**  
**tc:** 85 °C

**Absolute maximum operating current:**  
1400 mA

**Standards compliance**  
CSA-C22.2 no.250

EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

Article Articollo	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
SLM146/45H12	128351/727I	2700	700	3904	3680	23,2	163	158	34,8	37,8
			1000	5238	4936	34,3	149	144		
			1200	6015	5668	42	140	135		
	128351/730I	3000	700	4164	3925	23,2	174	168		
			1000	5587	5265	34,3	159	153		
			1200	6416	6046	42	149	144		
	128351/740I	4000	700	4424	4170	23,2	185	179		
			1000	5936	5594	34,3	169	163		
			1200	6818	6424	42	159	153		
	128351/750I	5000	700	4424	4170	23,2	185	179		
			1000	5936	5594	34,3	169	163		
			1200	6818	6424	42	159	153		
SLM146/45G12	128935/727CV	2700	350	2377	2233	11,2	207	198	33	37,8
			700	4612	4332	23,5	192	183		
			1050	6708	6299	36,5	180	171		
	128935/730CV	3000	350	2412	2266	11,2	210	201		
			700	4680	4395	23,5	195	186		
			1050	6807	6391	36,5	182	174		
	128935/740CV	4000	350	2552	2397	11,2	223	212		
			700	4951	4650	23,5	206	196		
			1050	7202	6762	36,5	193	184		
	128935/750CV	5000	350	2517	2364	11,2	220	209		
			700	4883	4586	23,5	203	194		
			1050	7103	6669	36,5	190	181		

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.

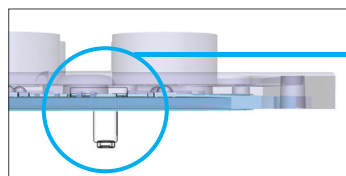
### Connector

**7 YEARS WARRANTY**  
3% FAILURE RATE

**10 YEARS WARRANTY**  
5% FAILURE RATE

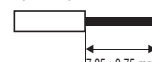
PRODUCER'S LIABILITY

10 YEARS WARRANTY TO YEARS ACCORDING TO THE OUTDOOR CONDITIONS



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.

0,34 - 0,75 mm<sup>2</sup>

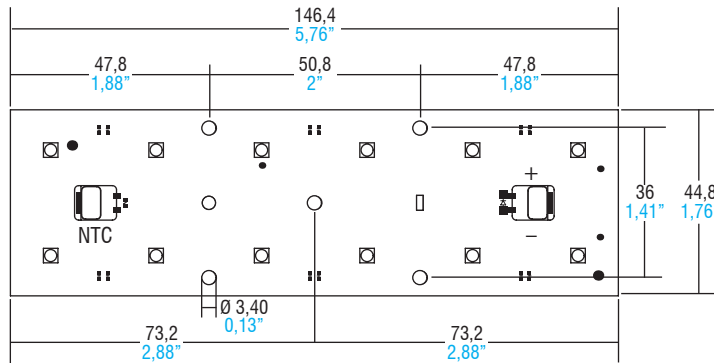


Wire preparation detail

Outdoor & Industrial modules

Technical features - Caratteristiche tecniche

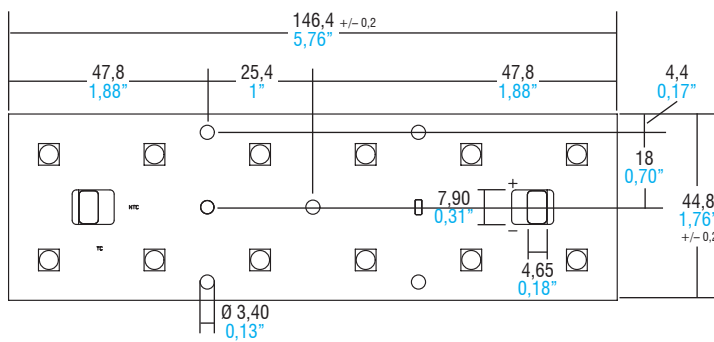
SLM146/45H12 (Weight/Peso 1,6 oz. / gr. 30 - Pcs/Pezzi 24)



Wiring - Cablaggio



SLM146/45G12 (Weight/Peso 1,6 oz. / gr. 30 - Pcs/Pezzi 36)



Zhaga compatible holes

Accessories - Accessori

6x2 LENSES FOR IP65

SILICONE Only for SLM146/45G12

6x2 SILICONE 130°	6x2 SILICONE TYPE II
468780174	468780175
468780179	468780179

6x2 SILICONE TYPE II	6x2 SILICONE TYPE III - ME3A
468780177	468780176
468780179	468780179

6x2 SILICONE TYPE III - ME3A
468780178
468780179

STREET Only for SLM146/45H12

Article Articolo	6x2 STREET TYPE III	6x2 STREET TYPE I	6x2 STREET TYPE V - 120°	6x2 STREET TYPE II - ME3A	6x2 STREET TYPE III	6x2 STREET TYPE II
Code - Codice	468780098	468780099	468780101	468780102	468780103	468780104
Gasket for IP65	468780106	468780106	468780106	468780106	468780106	468780106

Article Articolo	6x2 STREET TYPE III	6x2 STREET TYPE III	6x2 STREET TYPE II	6x2 STREET TYPE III	6x2 STREET TYPE II	6x2 STREET TYPE II MEDIUM
Code - Codice	468780105	468780261	468780262	468780263	468780264	468780265
Gasket for IP65	468780106	468780106	468780106	468780106	468780106	468780106

HIGH-BAY

Article Articolo	6x2 HIGH-BAY 60°	6x2 HIGH-BAY 90°	6x2 HIGH-BAY 120°	6x2 HIGH-BAY 130° SQUARE	6x2 HIGH-BAY WIDE BEAM 34	6x2 HIGH-BAY NARROW BEAM 15
Code - Codice	468780094	468780095	468780096	468780097	468780267	468780266
Gasket for IP65	468780106	468780106	468780106	468780106	468780106	468780106

Article Articolo	6x2 HIGH-BAY 30°	6x2 HIGH-BAY 60°	6x2 HIGH-BAY 90°	6x2 HIGH-BAY 150°
Code - Codice	468780323	468780324	468780325	468780326
Gasket for IP65	468780332	468780332	468780106	468780106

Only for SLM146/45H12

Thermal pad 47x148,4 mm / SP 0,2	code 489822281
----------------------------------	----------------

For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Main features

- Highly performant modules, ideal for extensive applications where great accuracy is required.
- Ideal for industrial, street and outdoor lighting.
- SELV modules (V < 60 V). Suitable for NON-SELV applications: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > 100.000 h.
- High efficiency: up to 223 lm/W.
- Minimum colour tolerance: 4MacAdam (4SDCM) - CRI 70. Minimum colour tolerance: 3MacAdam (3SDCM) >CRI 80.
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

Caratteristiche principali

- Moduli altamente performanti, ideali per applicazioni estensive dove sia richiesta estrema precisione.
- Moduli ideali per illuminazione industriale, stradale e da esterno.
- Moduli SELV (V < 60 V). Idonei per applicazioni NON SELV: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > 100.000 h.
- Elevata efficienza: fino a 223 lm/W.
- Minima tolleranza di colore: 4MacAdam (4SDCM) - CRI 70. Minima tolleranza di colore: 3MacAdam (3SDCM) >CRI 80.
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

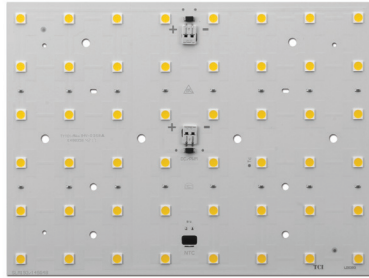
**UP TO 206**  
lm/W

**L80 B20**

>100.000 h  
@ tc=85 °C

**ENERGY**  
C

### SLM193/145G48



# 3.1

OUTDOOR & INDUSTRIAL LIGHTING

#### CRI

- >70
- >80 available online
- >90 on request - su richiesta

#### Available (CCT) colour temperature

- 3000 K
- 4000 K
- 5000 K
- 2700 K on request - su richiesta
- 3500 K on request - su richiesta
- 5700 K on request - su richiesta
- 6500 K on request - su richiesta

Article Articolo	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 65°C @Imin	Vmax. tc 25°C @Imax
SLM193/145G48	128758/730CV	3000	700	18720	17581	94,7	195	186	137,3	150,3
			1050	27228	25565	147,3	182	174		
			1350	34116	32025	194,6	173	165		
	128758/740CV	4000	700	19805	18600	94,7	206	196		
			1050	28806	27047	147,3	193	184		
			1350	36094	33882	194,6	183	174		
	128758/750CV	5000	700	19534	18346	94,7	203	194		
			1050	28412	26677	147,3	190	181		
			1350	35600	33418	194,6	181	172		

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.

#### Beam angle

120 °

#### Ambient temperature

ta: -40...+85 °C

#### Module temperature

tc: 85 °C

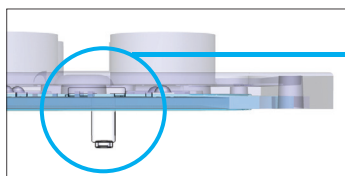
#### Absolute maximum operating current:

1600 mA

#### Standards compliance

- CSA-C22.2 no.250
- EN 55015
- EN 62031
- EN 62471
- IEC TR 62778
- UL 8750

#### Connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.

0,34 - 0,75 mm<sup>2</sup>



Wire preparation detail

**7 YEARS WARRANTY**  
3% FAILURE RATE

**10 YEARS WARRANTY**  
5% FAILURE RATE

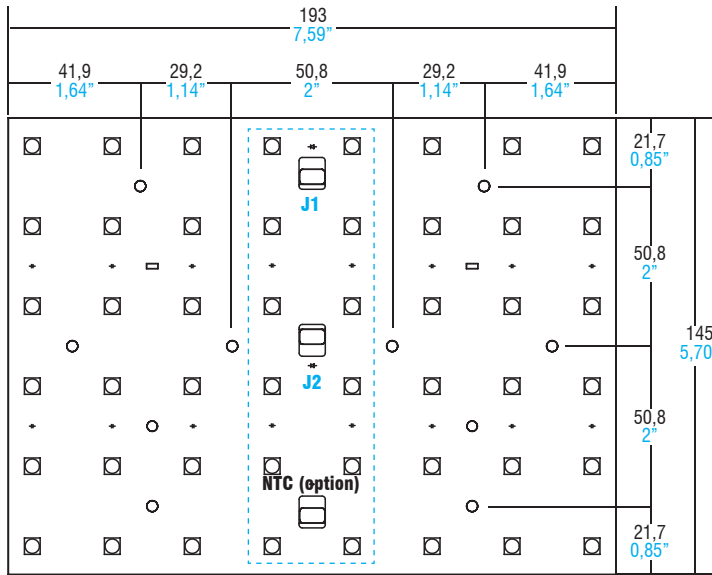
PRODUCER'S LIABILITY  
**TCI**

WARRANTY WITH ELECTRONICS  
**10 YEARS WARRANTY**  
ACCORDING TO THE EUROPEAN CONDITIONS

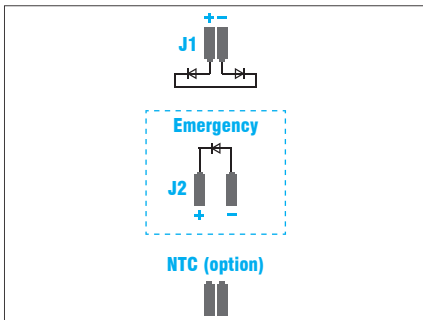
Outdoor & Industrial modules

Technical features - Caratteristiche tecniche

SLM193/145G48 (Weight/Peso 4,5 oz. / gr. 129 - Pcs/Pezzi 30)

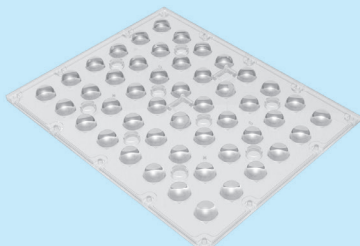


Wiring - Cablaggio



Accessories - Accessori

48 LENSES FOR IP65 HIGH-BAY



For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Article Articolo	48 HIGH-BAY ASY	48 HIGH-BAY ASY ROTATED	48 HIGH-BAY 90°	48 HIGH-BAY 120°
Code Codice	468780167	468780167A	468780133	468780134

Article Articolo	48 HIGH-BAY Silicone Gasket
Code Codice	468780166

Thermal pad 193x145 mm / SP 0,23	Code 489822286
-------------------------------------	-------------------

Main features

- Highly performant modules, ideal for extensive applications where great accuracy is required.
- Ideal for industrial and outdoor lighting.
- Suitable for NON-SELV applications.
- Extended lifetime > 100.000 h.
- High efficiency: up to 206 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli altamente performanti, ideali per applicazioni estensive dove sia richiesta estrema precisione.
- Moduli ideali per illuminazione industriale e da esterno.
- Idonei per applicazioni NON SELV.
- Lifetime esteso > 100.000 h.
- Elevata efficienza: fino a 206 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

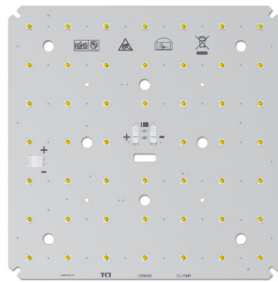
**UP TO**  
**190**  
lm/W

**L80**  
**B20**

>100.000 h  
@ tc=85 °C

**ENERGY**  
**C**

### SLM170/170H48



# 3.1

OUTDOOR & INDUSTRIAL LIGHTING

#### CRI

- >70
- >80 available online
- >90 on request - su richiesta

#### Available (CCT) colour temperature

- 3000 K
- 4000 K
- 5000 K
- 2700 K on request - su richiesta
- 3500 K on request - su richiesta
- 5700 K on request - su richiesta
- 6500 K on request - su richiesta

#### Beam angle

120 °

#### Ambient temperature

ta: -40...+85 °C

#### Module temperature

tc: 85 °C

#### Absolute maximum operating current:

1800 mA

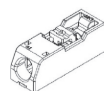
#### Standards compliance

- CSA-C22.2 no.250
- EN 55015
- EN 62031
- EN 62471
- IEC TR 62778
- UL 8750

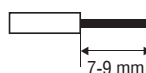
Article Articolo	Code Codice	Connector Type	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 65°C @Imin	Vmax. tc 25°C @Imax		
SLM170/170H48	128960/730I	Standard	3000	350	9041	8523	49,3	179	173	132,4	145		
				500	12419	11706	72	169					
				700	16641	15685	103,2	158					
	128743/730I	Reverse		1050	23181	21844	160,6	141	136				
				128960/740I	Standard	350	9606	9056	49,3			190	183
						4000	500	13195	12438			72	179
	700	17682	16665				103,2	167	161				
	128743/740I	Reverse	1050	24630	23209		160,6	150	144				
			5000	350	9606	9056	49,3	190	183				
				500	13195	12438	72	179	173				
	128960/750I	Standard		700	17682	16665	103,2	167	161				
			128743/750I	Reverse	1050	24630	23209	160,6	150			144	

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.

#### Standard connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.



Solid conductor - Conduttore rigido

Fine-stranded conductor - Conduttore flessibile

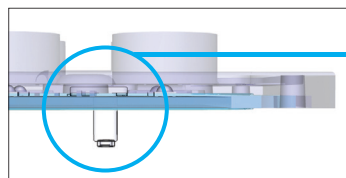
Fine-stranded conductor with ferrule with plastic collar -

Conduttore flessibile con boccola con isolamento in plastica 0,25...0,34 mm<sup>2</sup>

0,2...0,75 mm<sup>2</sup> / 24...18 AWG

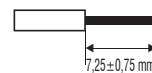
0,2...0,75 mm<sup>2</sup> / 24...18 AWG

#### Reverse connector



Insert/remove wires by slightly pressing on push-button.  
Inserire/rimuovere i cavi premendo leggermente sul pulsante.

0,34 - 0,75 mm<sup>2</sup>



Wire preparation detail

**7 YEARS WARRANTY**  
3% FAILURE RATE

**10 YEARS WARRANTY**  
5% FAILURE RATE

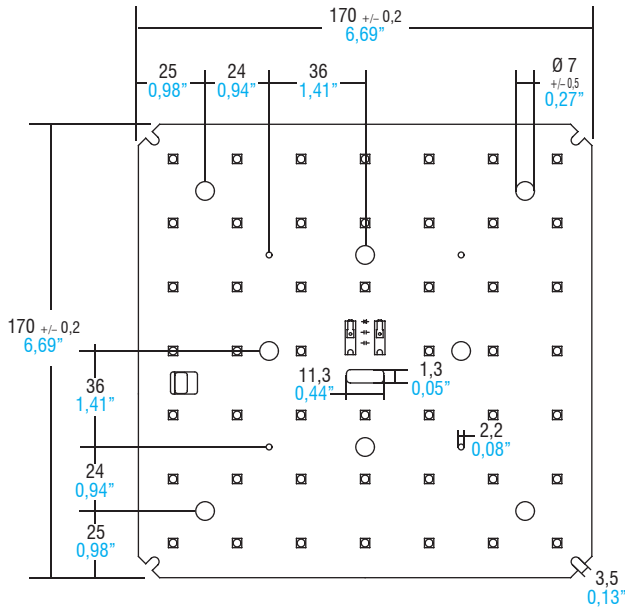
PRODUCER'S LIABILITY  
**TCI**

10 YEARS WARRANTY TO YEARS ACCORDING TO THE CIRCUMSTANCES

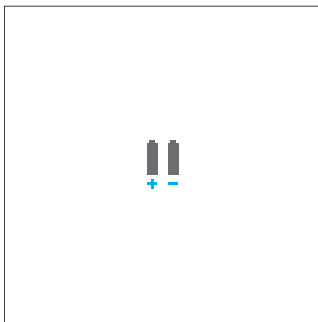
Outdoor & Industrial modules

Technical features - Caratteristiche tecniche

SLM170/170H48 (Weight/Peso 4,3 oz. / gr. 120 - Pcs/Pezzi 50)

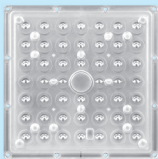


Wiring - Cablaggio



Accessories - Accessori

STADIUM 48



For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Article Articolo	STADIUM 48 15°	STADIUM 48 23°	STADIUM 48 40°	STADIUM 48 130°x110°
Code - Codice	468780242	468780243	468780244	468780245

Article Articolo	STADIUM 48 Silicone Gasket
Code - Codice	468780241

Main features

- Highly performant modules, ideal for extensive applications where great accuracy is required.
- Ideal for industrial and outdoor lighting.
- Suitable for NON-SELV applications.
- Extended lifetime > 100.000 h.
- High efficiency: up to 190 lm/W.
- Minimum colour tolerance: 4MacAdam (4SDCM) - CRI 70. Minimum colour tolerance: 3MacAdam (3SDCM) > CRI 80.
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli altamente performanti, ideali per applicazioni estensive dove sia richiesta estrema precisione.
- Moduli ideali per illuminazione industriale e da esterno.
- Idonei per applicazioni NON SELV.
- Lifetime esteso > 100.000 h.
- Elevata efficienza: fino a 190 lm/W.
- Minima tolleranza di colore: 4MacAdam (4SDCM) - CRI 70. Minima tolleranza di colore: 3MacAdam (3SDCM) > CRI 80.
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

## Outdoor & Industrial modules

Made in Italy

CE US EN 15



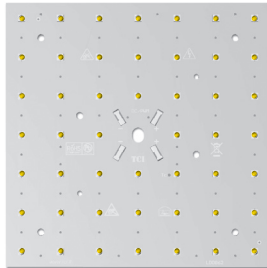
UP TO  
**190**  
lm/W

L80  
B20

>100.000 h  
@ tc=85 °C

ENERGY  
C

### SLM136/136H48



# 3.1

OUTDOOR & INDUSTRIAL LIGHTING

#### CRI

- >70
- >80 available online
- >90 on request - su richiesta

#### Available (CCT) colour temperature

- 3000 K
- 4000 K
- 5000 K
- 2700 K on request - su richiesta
- 3500 K on request - su richiesta
- 5700 K on request - su richiesta
- 6500 K on request - su richiesta

#### Beam angle

120 °

#### Ambient temperature

ta: -40...+85 °C

#### Module temperature

tc: 85 °C

#### Absolute maximum operating current:

1400 mA

#### Standards compliance

- CSA-C22.2 no.250
- EN 55015
- EN 62031
- EN 62471
- IEC TR 62778
- UL 8750

Article Articolo	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 65°C @Imin	Vmax. tc 25°C @Imax
SLM136/136H48	128984/730I	3000	350	9041	8523	49,3	179	173	135	145
			500	12419	11706	72	169	163		
			700	16641	15685	103,2	158	152		
			1050	23181	21844	160,6	141	136		
	128984/740I	4000	350	9606	9056	49,3	190	183		
			500	13195	12438	72	179	173		
			700	17682	16665	103,2	167	161		
			1050	24630	23209	160,6	150	144		
	128984/750I	5000	350	9606	9056	49,3	190	183		
			500	13195	12438	72	179	173		
			700	17682	16665	103,2	167	161		
			1050	24630	23209	160,6	150	144		

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.

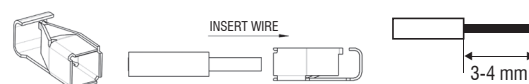
**7 YEARS WARRANTY**  
3% FAILURE RATE

**10 YEARS WARRANTY**  
5% FAILURE RATE

PRODUCER'S LIABILITY  
TCI

POWERED WITH ELECTRONICS  
WARRANTY 10 YEARS  
ACCORDING TO  
TCI CARESOUR CONDITIONS

#### Connector



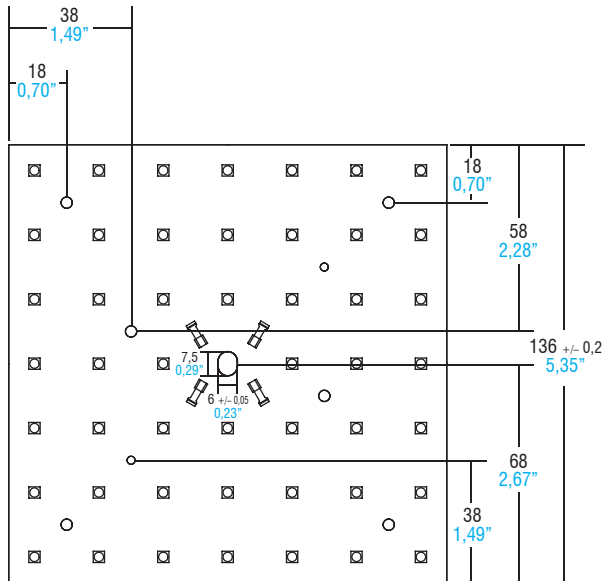
Solid conductor - Conduttore rigido 18...26 AWG  
Fine-stranded conductor - Conduttore flessibile 18...26 AWG



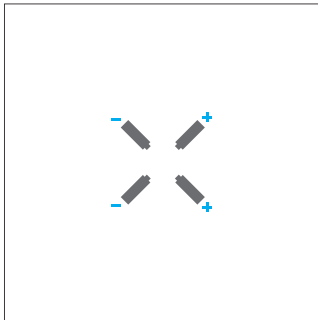
Outdoor & Industrial modules

Technical features - Caratteristiche tecniche

SLM136/136H48 (Weight/Peso 2,9 oz. / gr. 82 - Pcs/Pezzi 25)

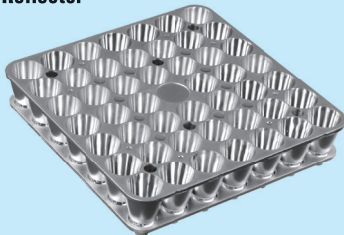


Wiring - Cablaggio



Accessories - Accessori

ARENA 48 Reflector



For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Article Articolo	ARENA 48 8,5°	ARENA 48 19°	ARENA 48 38°	ARENA 48 50°
Code - Codice	468780363	468780364	468780367	468780365
COVER	468780369	468780371	468780371	468780372

Article Articolo	ARENA 48 80°	ARENA 48 120°x95°
Code - Codice	468780366	468780368
COVER	468780372	468780372

Main features

- Highly performant modules, ideal for extensive applications where great accuracy is required.
- Ideal for industrial and outdoor lighting.
- Suitable for NON-SELV applications.
- Extended lifetime > 100.000 h.
- High efficiency: up to 190 lm/W.
- Minimum colour tolerance: 4MacAdam (4SDCM) - CRI 70. Minimum colour tolerance: 3MacAdam (3SDCM) > CRI 80.
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli altamente performanti, ideali per applicazioni estensive dove sia richiesta estrema precisione.
- Moduli ideali per illuminazione industriale e da esterno.
- Idonei per applicazioni NON SELV.
- Lifetime esteso > 100.000 h.
- Elevata efficienza: fino a 190 lm/W.
- Minima tolleranza di colore: 4MacAdam (4SDCM) - CRI 70. Minima tolleranza di colore: 3MacAdam (3SDCM) > CRI 80.
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

# RM255E318 - RM255Y318

Outdoor & Industrial modules

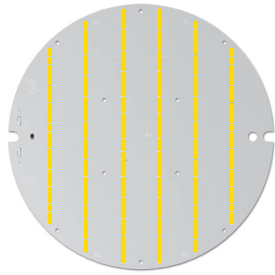
Made in Italy

UP TO  
207  
lm/W

L80  
B20

> 80.000 h  
@ tc=65 °C

RM255E318 - RM255Y318



3.2

OUTDOOR & INDUSTRIAL LIGHTING

**CRI**

>70 on request - su richiesta  
>80  
>90 available online

**Available (CCT) colour temperature**

3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**

120 °

**Ambient temperature**

ta: -40...+85 °C

**Module temperature**

tc: 85 °C

**Absolute maximum operating current:**

1100 mA

**Standards compliance**

CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

Article Articollo	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
RM255E318 2835 LEDs	128985/830BB	3000	350	9801	9141	50	193	183	145,8	157,9
			700	18974	17688	103,4	181	171		
			1050	27495	25620	159,6	170	160		
	128985/840BB	4000	350	10228	9538	50	202	191		
			700	19799	18457	103,4	189	178		
			1050	28691	26734	159,6	177	167		
	128985/850BB	5000	350	10370	9671	50	204	193		
			700	20074	18714	103,4	191	181		
			1050	29089	27106	159,6	180	170		
RM255Y318 3030 LEDs	128985/830AP	3000	350	9593	9140	49,2	192	185	144,7	159
			700	18877	17985	102,4	182	175		
			1050	27757	26444	159	172	166		
			1400	36230	34512	218,5	163	158		
	128985/840AP	4000	350	10163	9684	49,2	203	197		
			700	20000	19056	102,4	192	186		
			1050	29409	28018	159	182	176		
			1400	38386	36567	218,5	173	167		
	128985/850AP	5000	350	10363	9875	49,2	207	200		
			700	20394	19431	102,4	196	189		
			1050	29987	28568	159	186	180		
			1400	39141	37286	218,5	177	170		

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.

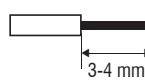
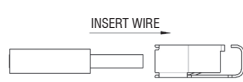
**7 YEARS WARRANTY**  
3% FAILURE RATE

**10 YEARS WARRANTY**  
5% FAILURE RATE

PRODUCER'S LIABILITY

WARRANTY 10 YEARS  
ACCORDING TO THE EUROPEAN CONDITIONS

Connector



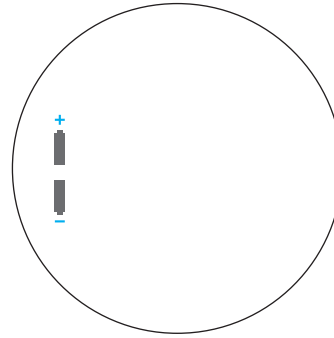
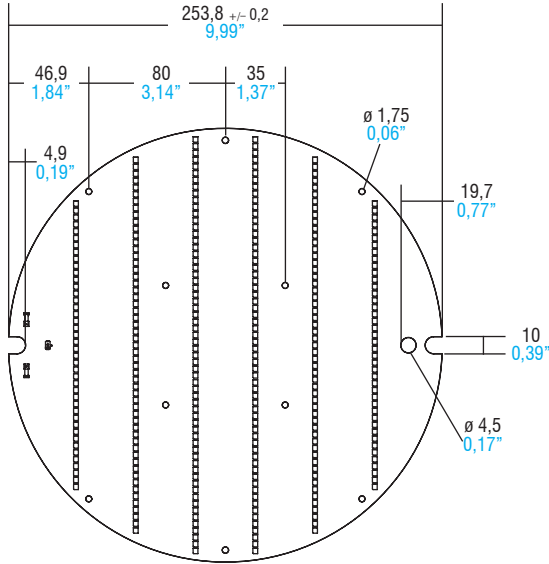
Solid conductor - Conduttore rigido 18...26 AWG  
Fine-stranded conductor - Conduttore flessibile 18...26 AWG

Outdoor & Industrial modules

Technical features - Caratteristiche tecniche

RM255E318 - RM255Y31 (Weight/Peso 7,8 oz. / gr. 222 - Pcs/Pezzi 10)

Wiring - Cablaggio

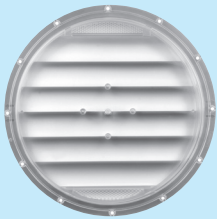


3.2

OUTDOOR & INDUSTRIAL LIGHTING

Accessories - Accessori

STRATOS



Article Articolo	STRATOS EL	STRATOS 60°	STRATOS 90°
Code Codice	468780359	468780361	468780362

For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Main features

- Highly performant modules, ideal for extensive applications where great accuracy is required.
- Ideal for industrial lighting.
- Suitable for NON-SELV applications.
- Extended lifetime > 80.000 h.
- High efficiency: up to 207 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli altamente performanti, ideali per applicazioni estensive dove sia richiesta estrema precisione.
- Moduli ideali per illuminazione industriale.
- Idonei per applicazioni NON SELV.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 207 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

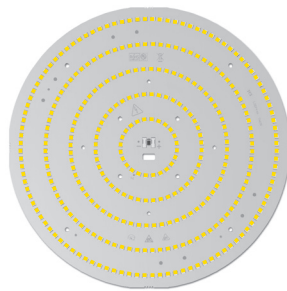
UP TO  
**199**  
lm/W

L80  
B20

> 80.000 h  
@ tc=65 °C

ENERGY  
C

RM225E320 - RM225Y320



3.2

OUTDOOR & INDUSTRIAL LIGHTING

**CRI**

>70 on request - su richiesta  
>80  
>90 available online

**Available (CCT) colour temperature**

3000 K  
4000 K  
5000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**

120 °

**Ambient temperature**

ta: -40...+85 °C

**Module temperature**

tc: 85 °C

**Absolute maximum operating current:**

800 mA

**Standards compliance**

CSA-C22.2 no.250  
EN 55015  
EN 62031  
EN 62471  
IEC TR 62778  
UL 8750

Article Articolò	Code Codice	CCT K	Current mA	Flux tc 25°C lm	Flux tc 65°C lm	Power tc 65°C W	Efficacy tc 25°C lm/W	Efficacy tc 65°C lm/W	Vmin. tc 25°C @Imin	Vmax. tc 25°C @Imax
RM225E320 2835 LEDs	128815/830BB	3000	350	14563	13579	76,8	187	177	208	232
			500	20358	18977	112	179	169		
			700	27668	25782	160,6	170	160		
	128815/840BB	4000	350	15196	14169	76,8	195	184		
			500	21243	19802	112	187	177		
			700	28871	26902	160,6	177	167		
	128815/850BB	5000	350	15407	14366	76,8	197	187		
			500	21538	20077	112	189	179		
			700	29272	27276	160,6	180	170		
RM225Y320 3030 LEDs	128815/830AP	3000	400	16367	15595	87,4	184	178	208	238
			800	31636	30138	185,3	168	162		
			1200	45698	43526	292	155	149		
	128815/840AP	4000	400	17342	16523	87,4	196	189		
			800	33519	31932	185,3	178	172		
			1200	48418	46117	292	164	158		
	128815/850AP	5000	400	17683	16848	87,4	199	193		
			800	34178	32560	185,3	182	176		
			1200	49370	47023	292	167	161		

The mentioned data can have a 10% tolerance - Il dato indicato può avere una tolleranza del 10%.

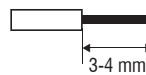
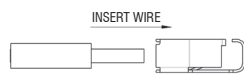
**7 YEARS WARRANTY**  
3% FAILURE RATE

**10 YEARS WARRANTY**  
5% FAILURE RATE

PRODUCER'S LIABILITY  
TCI

WARRANTY 10 YEARS  
ACCORDING TO THE EUROPEAN CONDITIONS

**Connector**



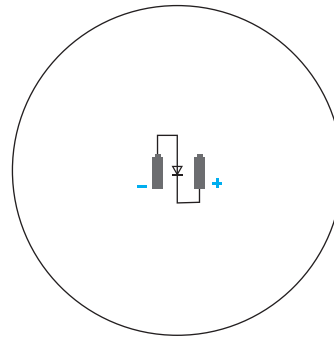
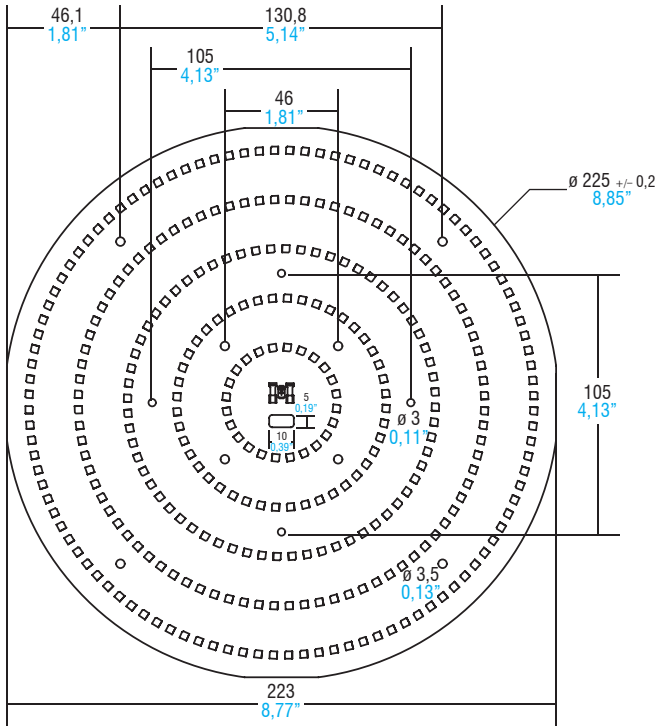
Solid conductor - Conduttore rigido 18...26 AWG  
Fine-stranded conductor - Conduttore flessibile 18...26 AWG

Outdoor & Industrial modules

Technical features - Caratteristiche tecniche

RM225E320 - RM225Y320 (Weight/Peso 5,9 oz. / gr. 169 - Pcs/Pezzi 20)

Wiring - Cablaggio



3.2

OUTDOOR & INDUSTRIAL LIGHTING

Accessories - Accessori

TARGET



For technical details SEE SECTION 4. Per dettagli tecnici VEDI SEZIONE 4.

Article Articolo	TARGET 60°	TARGET 90°
Code Codice	468780272	468780273
Silicone Gasket for IP65	Code - Codice 468780282	

Main features

- Highly performant modules, ideal for extensive applications where great accuracy is required.
- Ideal for industrial lighting.
- Suitable for NON-SELV applications.
- Extended lifetime > 80.000 h.
- High efficiency: up to 199 lm/W.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Push-in terminal blocks. Easy module fixing with screws.
- Suitable for emergency applications with TCI inverters.
- Only for professional use, not for final end user.

Caratteristiche principali

- Moduli altamente performanti, ideali per applicazioni estensive dove sia richiesta estrema precisione.
- Moduli ideali per illuminazione industriale.
- Idonei per applicazioni NON SELV.
- Lifetime esteso > 80.000 h.
- Elevata efficienza: fino a 199 lm/W.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Morsetti a innesto rapido. Fissaggio del modulo semplice mediante viti.
- Moduli alimentabili in emergenza con inverter TCI.
- Prodotto ad uso unicamente professionale. Non per impiego da parte dell'utente finale.

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)



# LENSES & REFLECTORS

RESIDENTIAL LIGHTING

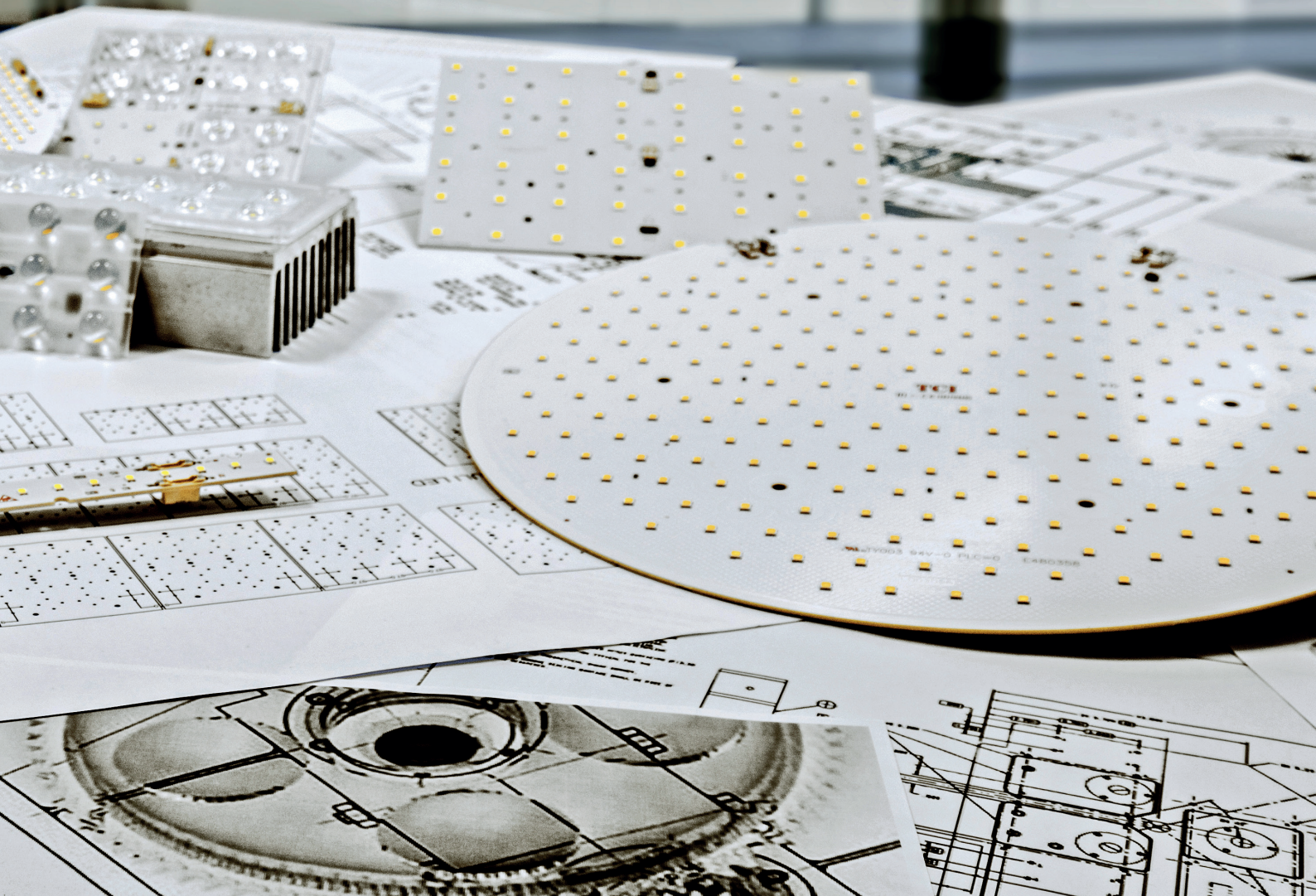
OFFICE LIGHTING

RETAIL LIGHTING

INDUSTRIAL LIGHTING

STREET LIGHTING

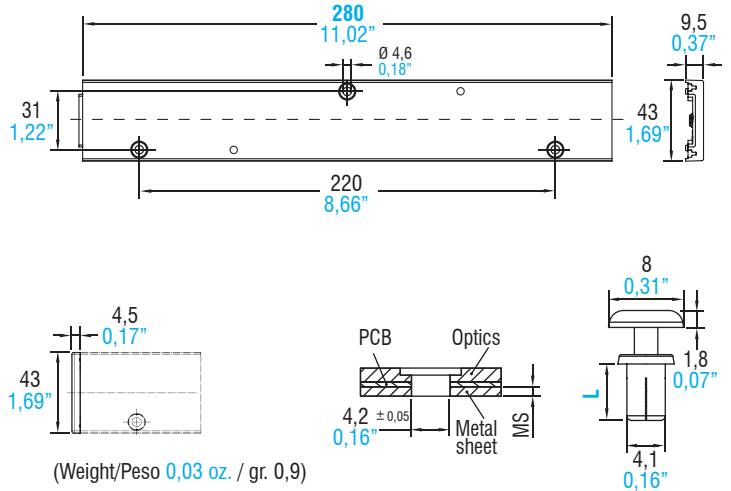
OUTDOOR LIGHTING



## Lenses



(Weight/Peso 1,76 oz. / gr. 50)



(Weight/Peso 0,03 oz. / gr. 0,9)

# 4

## LENSES & REFLECTORS



Article Articolo	LINEA BOXED 30 LED - 280 mm			
Description Descrizione	STANDARD	DIFFUSE	EXTRA WIDE 90°	WIDE 60°
Code Codice	468780209	468780211	468780212	468780213
Polar distribution Distribuzione polare				

Article Articolo	LINEA BOXED 30 LED - 280 mm			
Description Descrizione	NARROW 30°	RETAIL SYM	RETAIL ASYM	HIGH RACK
Code Codice	468780214	468780215	468780216	468780217
Polar distribution Distribuzione polare				

Article Articolo	Code Codice
Caps for lens Linea Boxed	468780222

Article Articolo	Code Codice	For luminaire sheet thickness* (MS) mm	Length - Lunghezza L mm
Fixing Clip	468780223	0.5-1.3	9
	468780224	1.4-2.2	10

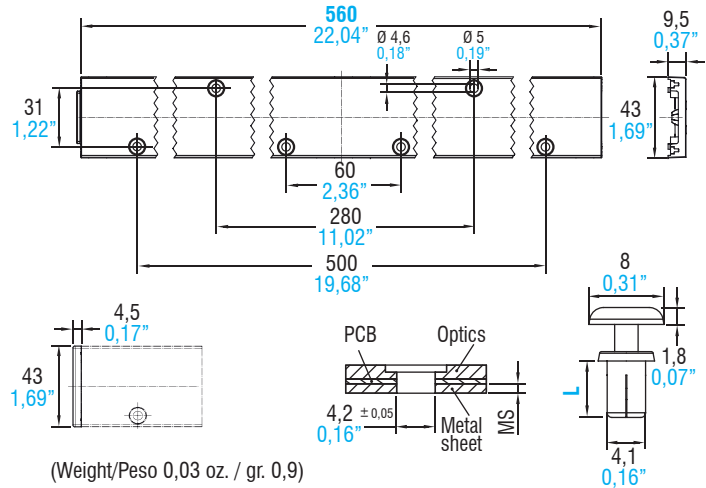
\* For PCB thickness: 1,5 mm



## Lenses



(Weight/Peso 3,77 oz. / gr. 107)



Article Articolo	LINEA BOXED 60 LED - 560 mm	
Description Descrizione	STANDARD	RETAIL SYM
Code Codice	468780218	468780219
Polar distribution Distribuzione polare		

Article Articolo	Code Codice
Caps for lens Linea Boxed	468780222

Article Articolo	Code Codice	For luminaire sheet thickness* (MS) mm	Length - Lunghezza L mm
Fixing Clip	468780223	0.5-1.3	9
	468780224	1.4-2.2	10

\* For PCB thickness: 1,5 mm

### Technical notes for Optics

- Uniform light distribution
- Highly efficient up to 95%
- Ideal for residential, office, retail and industrial lighting
- Material: PMMA
- Dimensions (LxWxH): 280 or 560 x43x9,5 mm
- For modules LM280/40E30 - LM560/40E60
- Max allowed temperature: 80°C
- Fixation with flat or cylinder head screws or with fixing clip.  
Tightening torque: 1,2 Nm
- Packaging unit 280 mm / 560 mm: 192 / 96 pcs
- Packaging end cap 500 pcs
- Packaging fixing clip 1000 pcs

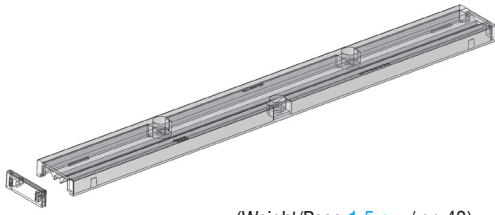
### Note tecniche per le Ottiche

- Distribuzione di luce uniforme
- Altamente efficiente fino al 95%
- Ideali per illuminazione residenziale, uffici, spazi commerciali e industriali
- Materiale: PMMA
- Dimensioni (LxWxH): 280 or 560 x43x9,5 mm
- Per moduli LM280/40E30 - LM560/40E60
- Temperatura massima: 80°C
- Fissaggio tramite viti a testa piatta o cilindro o con clip di fissaggio.  
Coppia di serraggio: 1,2 Nm
- Confezione 280 mm / 560 mm da 192 / 96 pezzi
- Confezione tappo di chiusura da 500 pezzi
- Confezione clip di fissaggio da 1000 pezzi

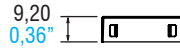
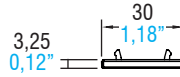
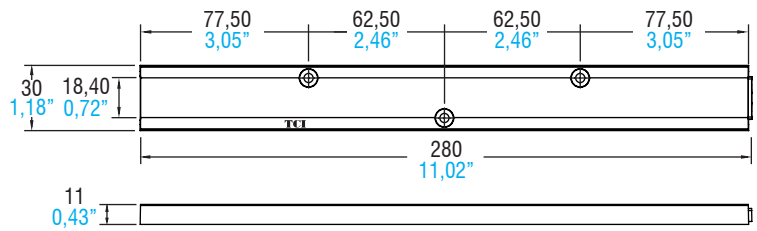


For additional technical informations see [www.tci.it](http://www.tci.it)

## Lenses



(Weight/Peso 1,5 oz. / gr. 43)



# 4

LENSES & REFLECTORS



Article Articolo	LINEA BOXED	LINEA BOXED	LINEA BOXED	LINEA BOXED
Beam Angle Angolo di orientamento	30°	60°	90°	Double asymmetric Doppia asimmetrica
Code Codice	468780147	468780148	468780149	468780151
Polar distribution Distribuzione polare				

Article - Articolo	Code - Codice
Caps for lens Linea Boxed	488787434

### Technical notes for Optics

- Uniform light distribution
- High efficiency
- Ideal for residential, office, retail and industrial lighting
- Material: Optical Grade PMMA 8N
- Dimensions (LxWxH): 280x30x11 mm
- Max allowed temperature: -40...90°C
- Fixing with flat head screws. Tightening torque: 0,48 Nm
- Packaging unit: 250 pcs

### Note tecniche per le Ottiche

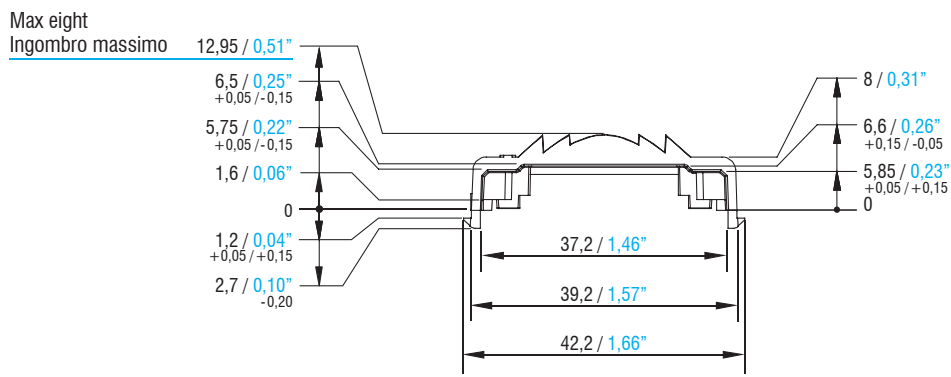
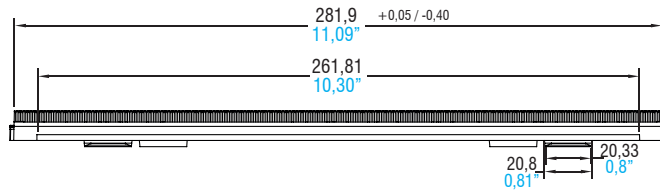
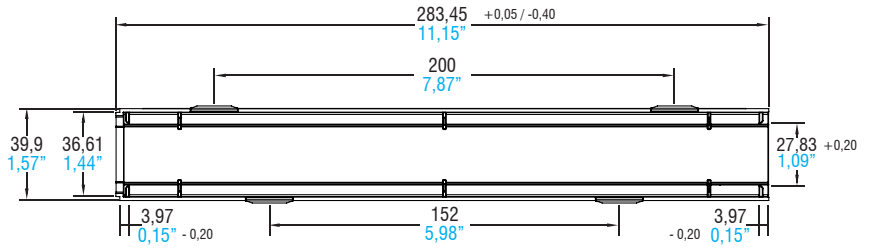
- Distribuzione di luce uniforme
- Alta efficienza
- Ideali per illuminazione residenziale, uffici, spazi commerciali e industriali
- Materiale: Optical Grade PMMA 8N
- Dimensioni (LxWxH): 280x30x11 mm
- Temperatura massima: -40...90°C
- Fissaggio tramite viti a testa piatta. Coppia di serraggio: 0,48 Nm
- Confezione da 250 pezzi



For additional technical informations see [www.tci.it](http://www.tci.it)



## Lenses



4

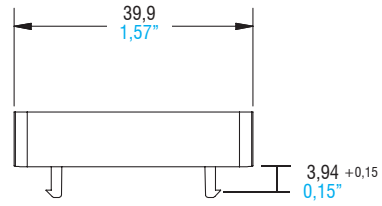
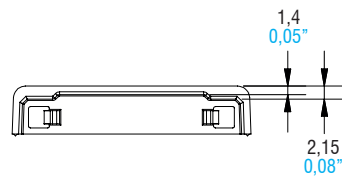
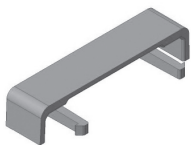
LENSES & REFLECTORS



Article Articolo	LINEA CLIP	LINEA CLIP	LINEA CLIP	LINEA CLIP
Beam Angle Angolo di orientamento	30°	60°	90°	20° ASYM
Code Codice	468780231	468780232	468780233	468780234
Polar distribution Distribuzione polare				

Article Articolo	LINEA CLIP
Beam Angle Angolo di orientamento	±20° Double asymmetric ±20° Doppia asimmetrica
Code Codice	468780235
Polar distribution Distribuzione polare	

## Lenses



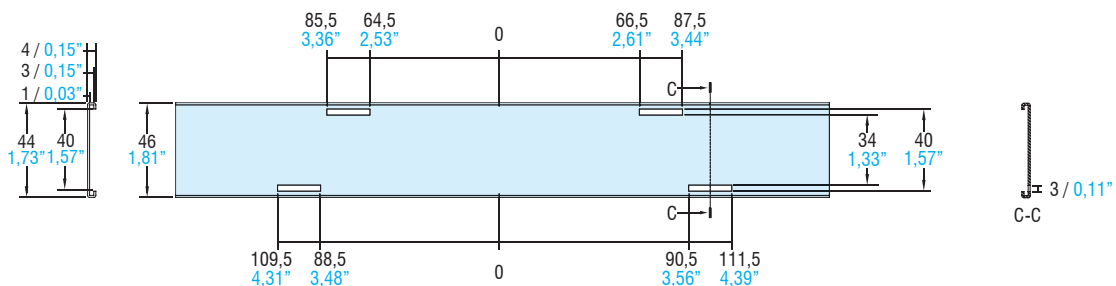
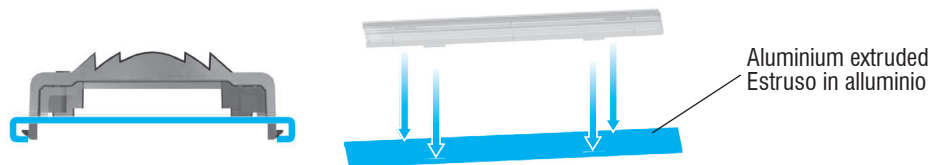
Article - Articolo	Code - Codice	Color - Colore
Caps for lens Linea Clip	468780236	Grey - Grigio
	468780236T	Transparent - Trasparente

The cap can be used as a side closure or as a spacer between lenses to obtain the desired length.  
Tappo utilizzabile come chiusura laterale e come distanziale tra una lente e l'altra per ottenere la lunghezza desiderata.

# 4

LENSES & REFLECTORS

### Assembly instruction Riferimento per montaggio



### Technical notes for Optics

- Uniform light distribution
- Low UGR
- Ideal for residential, office, retail and industrial lighting
- Material: Optical Grade PMMA 8N
- Dimensions (LxWxH): 283x40x13 mm
- Max allowed temperature: -40...90°C
- Snap-in fixation
- Packaging unit: 200 pcs

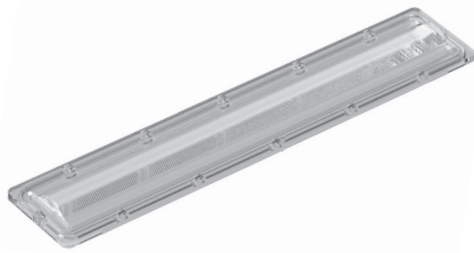
### Note tecniche per le Ottiche

- Distribuzione di luce uniforme
- Basso indice di abbagliamento
- Ideali per illuminazione residenziale, uffici, spazi commerciali e industriali
- Materiale: Optical Grade PMMA 8N
- Dimensioni (LxWxH): 283x40x13 mm
- Temperatura massima: -40...90°C
- Fissaggio a clip
- Confezione da 200 pezzi

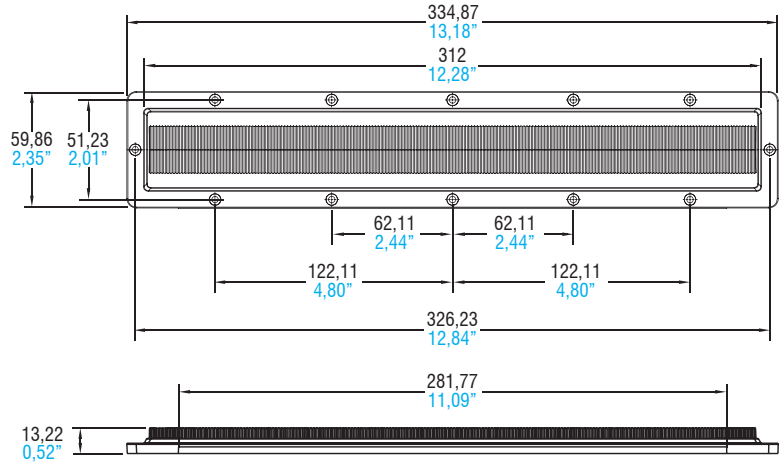


For additional technical informations see [www.tci.it](http://www.tci.it)

## Lenses



(Weight/Peso 2,92 oz. / gr. 83)



# 4

## LENSES & REFLECTORS

Article Articolo	LINEA IP	LINEA IP	LINEA IP	LINEA IP
Description Descrizione	30°	60°	90°	ASYM.
Code Codice	468780274	468780275	468780276	468780277
Polar distribution Distribuzione polare				

Article Articolo	LINEA IP	GASKET
Description Descrizione	DOUBLE ASYM.	Silicone Gasket
Code Codice	468780278	468780279
Polar distribution Distribuzione polare		

### Technical notes for Optics

- Low UGR
- Temperature range: -40...90°C
- Ideal for office, industrial, outdoor
- Material: Optical Grade PMMA 8N
- No external cover glass needed
- Dimensions (LxWxH): 335x60x13,22 mm
- Fixing with flat head screws. Tightening torque: 0,48 Nm
- Packaging unit: 300 pcs
- IP65 secured by dedicate gasket.

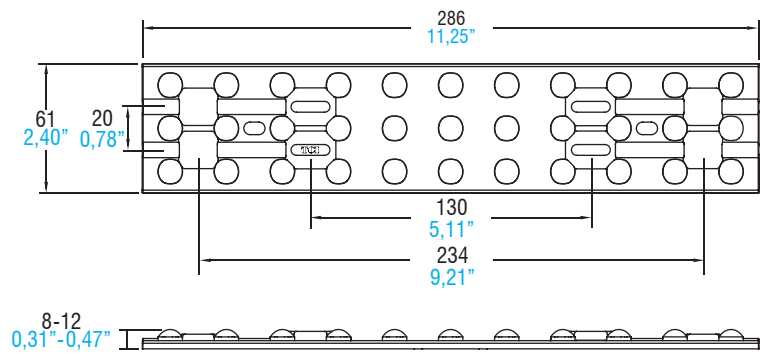
### Note tecniche per le Ottiche

- Basso indice di abbagliamento
- Temperatura di esercizio: -40...90°C
- Ideali per illuminazione di uffici, industriale e da esterno
- Materiale: Optical Grade PMMA 8N
- Vetro di protezione per uso in esterno non necessario
- Dimensioni (LxWxH): 335x60x13,22 mm
- Fissaggio tramite viti a testa piatta. Coppia di serraggio: 0,48 Nm
- Confezione da 300 pezzi
- IP65 con guarnizione opzionale.



For additional technical informations see [www.tci.it](http://www.tci.it)

## Lenses



Article Articolo	LINEA FLAT 33LED	LINEA FLAT 33LED	LINEA FLAT 33LED	LINEA FLAT 33LED
Beam Angle Angolo di orientamento	30°	60°	90°	Double asymmetric Doppia asimmetrica
Code Codice	468780112	468780113	468780114	468780115
Polar distribution Distribuzione polare				

### Technical notes for Optics

- Uniform light distribution
- High efficiency
- Ideal for residential, office, retail and industrial lighting
- Material: Optical Grade PMMA 8N
- Dimensions (LxWxH): 286x61x10 mm
- Max allowed temperature: -40...90°C
- Fixing with flat head screws. Tightening torque: 0,48 Nm
- Packaging unit: 210 pcs

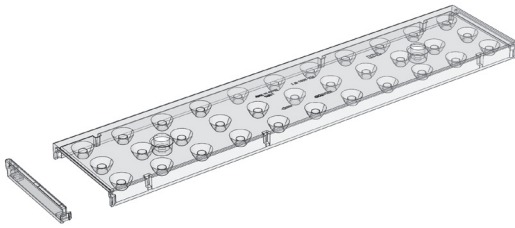
### Note tecniche per le Ottiche

- Distribuzione di luce uniforme
- Alta efficienza
- Ideali per illuminazione residenziale, uffici, spazi commerciali e industriali
- Materiale: Optical Grade PMMA 8N
- Dimensioni (LxWxH): 286x61x10 mm
- Temperatura massima: -40...90°C
- Fissaggio tramite viti a testa piatta. Coppia di serraggio: 0,48 Nm
- Confezione da 210 pezzi

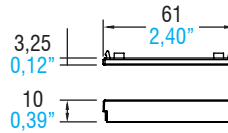
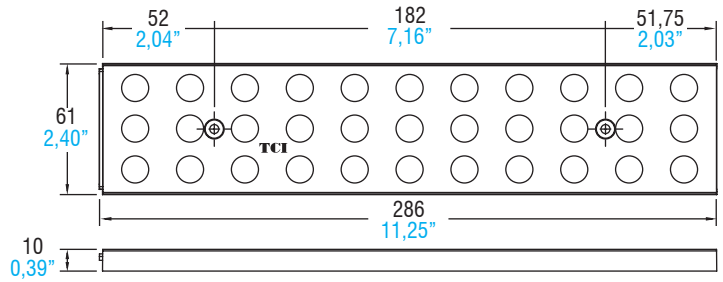


For additional technical informations see [www.tci.it](http://www.tci.it)

## Lenses



(Weight/Peso 2,4 oz. / gr. 68)



# 4

LENSES & REFLECTORS



Article Articolo	LINEA BOXED 33LED	LINEA BOXED 33LED	LINEA BOXED 33LED	LINEA BOXED 33LED
Beam Angle Angolo di orientamento	30°	60°	90°	Double asymmetric Doppia asimmetrica
Code Codice	468780143	468780144A	468780145A	468780146A
Polar distribution Distribuzione polare				
Plastic end plugs	488787435	488787435	488787435	488787435

### Technical notes for Optics

- Uniform light distribution
- High efficiency
- Ideal for residential, office, retail and industrial lighting
- Material: Optical Grade PMMA 8N
- Dimensions (LxWxH): 286x61x10 mm
- Max allowed temperature: -40...90°C
- Fixing with flat head screws. Max torque: 0,48 Nm
- Packaging unit: 210 pcs

### Note tecniche per le Ottiche

- Distribuzione di luce uniforme
- Alta efficienza
- Ideali per illuminazione residenziale, uffici, spazi commerciali e industriali
- Materiale: Optical Grade PMMA 8N
- Dimensioni (LxWxH): 286x61x10 mm
- Temperatura massima: -40...90°C
- Fissaggio tramite viti a testa piatta. Coppia di serraggio: 0,48 Nm
- Confezione da 210 pezzi



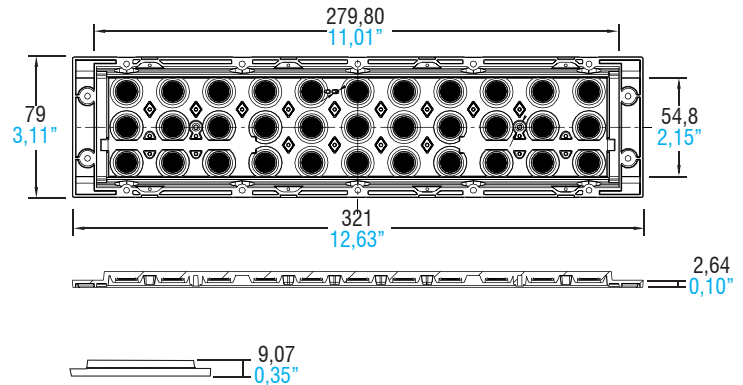
For additional technical informations see [www.tci.it](http://www.tci.it)



## Lenses



(Weight/Peso 4,3 oz. / gr. 123)



Article Articolo	LINEA BOXED 33LED IP65	LINEA BOXED 33LED IP65	LINEA BOXED 33LED IP65
Beam Angle Angolo di orientamento	25°	60°	90°
Code Codice	468780303	468780304	468780305
Polar distribution Distribuzione polare			
Gasket for IP65	468780306	468780306	468780306

4

LENSES & REFLECTORS

### Technical notes for Optics

- Uniform light distribution
- High efficiency
- Ideal for residential, office, retail and industrial lighting
- Material: PC Sabic 2180T
- Dimensions (LxWxH): 321x79x9,07 mm
- Max allowed temperature: -40...110°C
- Fixing with flat head screws. Tightening torque: 0,48 Nm

### Note tecniche per le Ottiche

- Distribuzione di luce uniforme
- Alta efficienza
- Ideali per illuminazione residenziale, uffici, spazi commerciali e industriali
- Materiale: PC Sabic 2180T
- Dimensioni (LxWxH): 321x79x9,07 mm
- Temperatura massima: -40...110°C
- Fissaggio tramite viti a testa piatta. Coppia di serraggio: 0,48 Nm

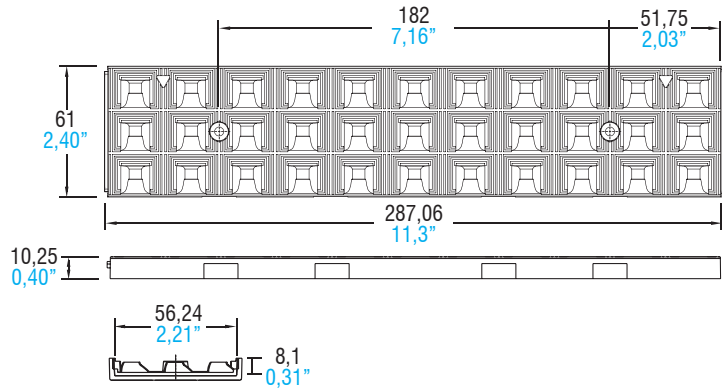


For additional technical informations see [www.tci.it](http://www.tci.it)

Reflectors



(Weight/Peso 2,4 oz. / gr. 70)



4

LENSES & REFLECTORS

Article Articolo	PIXEL 3x11	PIXEL 3x11	PIXEL 3x11	PIXEL 3x11
Beam Angle Angolo di orientamento	30° ASY	60° DA	ME	60° EXTRA WIDE
Code Codice	468780333	468780334	468780335	468780336
Polar distribution Distribuzione polare				
Plastic end plugs	488787435	488787435	488787435	488787435

Article Articolo	PIXEL 3x11
Beam Angle Angolo di orientamento	90° ULTRA WIDE
Code Codice	468780337
Polar distribution Distribuzione polare	
Plastic end plugs	488787435

Technical notes for Reflectors

- Uniform light distribution
- High efficiency
- Ideal for residential, office, retail and industrial lighting
- Material: Black PMMA + aluminium reflective coating
- Dimensions (LxWxH): 287,06x61x10,25 mm
- Max allowed temperature: -40...90°C
- Fixing with flat head screws. Tightening torque: 0,48 Nm

Note tecniche per i Riflettori

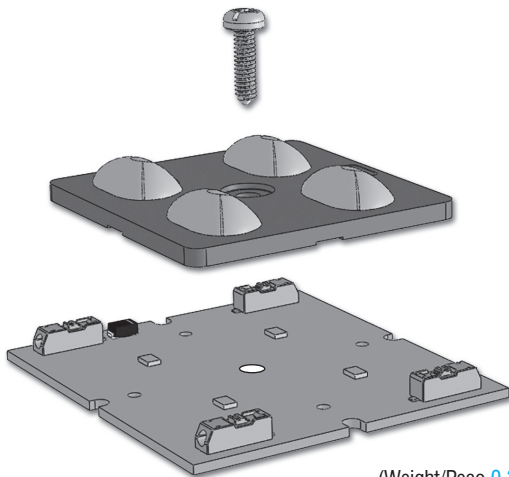
- Distribuzione di luce uniforme
- Alta efficienza
- Ideali per illuminazione residenziale, uffici, spazi commerciali e industriali
- Materiale: Black PMMA + alluminio reflective coating
- Dimensioni (LxWxH): 287,06x61x10,25 mm
- Temperatura massima: -40...90°C
- Fissaggio tramite viti a testa piatta. Coppia di serraggio: 0,48 Nm



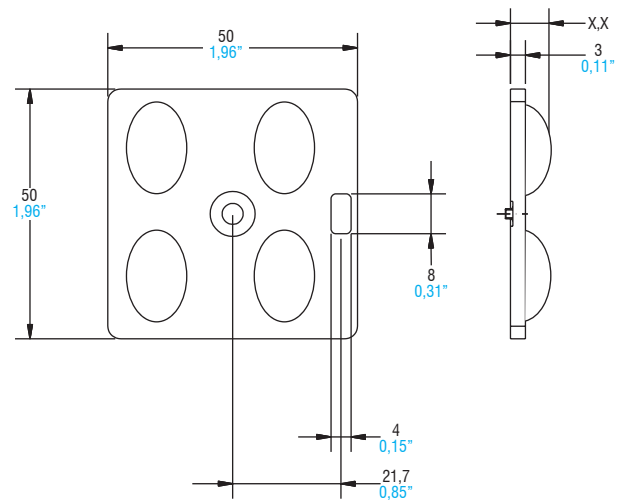
For additional technical informations see [www.tci.it](http://www.tci.it)



## Lenses



(Weight/Peso 0,35 oz. / gr. 10)



# 4

## LENSES & REFLECTORS



Article Articolo	2x2	2x2	2x2	2x2
Description Descrizione	ASYMMETRIC	ELLIPTIC	IESNA TYPE: VS SHORT 120°	IESNA TYPE I
Code - Codice	468780051	468780052	468780053	468780054
LED type	3535 - 5050	3535 - 5050	3535 - 5050	3535 - 5050
Height lens	7,7	6,66	6,97	7,72
Polar distribution Distribuzione polare				

Article Articolo	2x2	2x2	2x2	2x2
Description Descrizione	IESNA TYPE II: ECE ME3A	IESNA TYPE V - 90°	IESNA TYPE III - M	IESNA TYPE IV
Code - Codice	468780055	468780056	468780057	468780058
LED type	3535 - 5050	3535 - 5050	3535 - 5050	3535 - 5050
Height lens	7,21	7,92	7,71	7,71
Polar distribution Distribuzione polare				



For additional technical informations see [www.tci.it](http://www.tci.it)

## Lenses

Article Articolo	2x2	2x2	2x2	2x2
Description Descrizione	IESNA TYPE V - 50°	IESNA TYPE II / TYPE III	IESNA TYPE II	IESNA TYPE III - S
Code - Codice	468780059	468780061	468780062	468780063
LED type	3535 - 5050	3535	3535	3535
Height lens	8,8	7,43	9,17	7,77
Polar distribution Distribuzione polare				

Article Articolo	2x2	2x2	2x2	2x2
Description Descrizione	TYPE II Optimized for LED 5050	IESNA TYPE II / III	IESNA TYPE II / III	CROSSWALKS
Code - Codice	468780173	468780253	468780246	468780238
LED type	3535 - 5050	3535	3535	3535 - 5050
Height lens	8,37	8,89	7,68	10
Polar distribution Distribuzione polare				

Article Articolo	2x2	2x2	2x2	2x2
Description Descrizione	IESNA TYPE I for CENTRAL LANE	IESNA TYPE IV for TUNNEL ENTRANCE	CROSSWALKS	IESNA TYPE II MEDIUM ME3
Code - Codice	468780254	468780255	468780239	468780283
LED type	3535 - 5050	3535 - 5050	3535 - 5050	3535 - 5050
Height lens	6,67	8,42	9,25	8,99
Polar distribution Distribuzione polare				

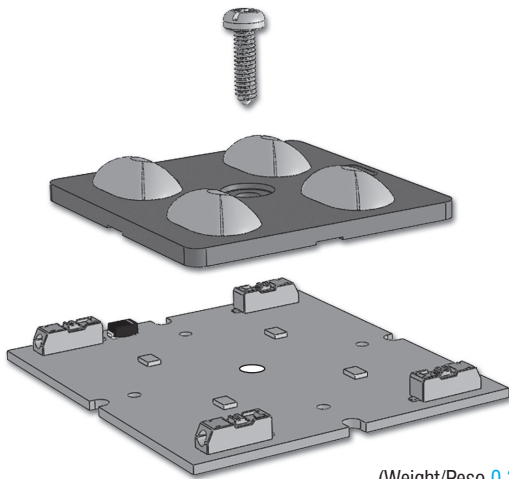
### Technical notes for Optics

- High efficiency
- Ideal for residential, office, retail, industrial and street lighting
- Material: Optical Grade PMMA 8N
- Dimensions (LxWxH): 50x50xH mm
- Max allowed temperature: -40...85°C
- Fixing with flat head screw. Tightening torque: 0,48 Nm
- Packaging unit: 1480 pcs

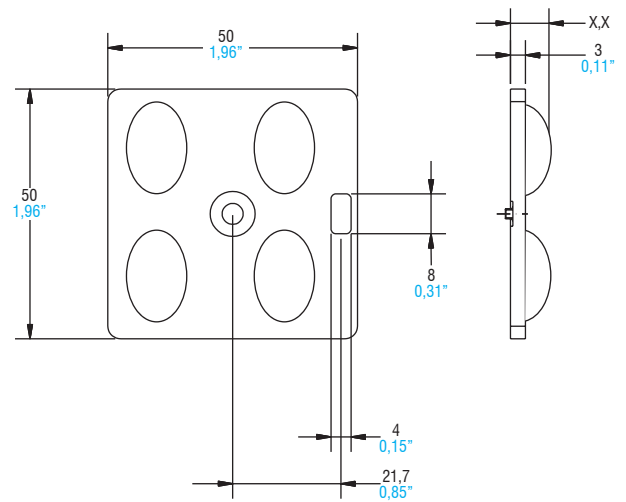
### Note tecniche per le Ottiche

- Alta efficienza
- Ideali per illuminazione residenziale, uffici, spazi commerciali, industriale e stradale
- Materiale: Optical Grade PMMA 8N
- Dimensioni (LxWxH): 50x50xH mm
- Temperatura massima: -40...85°C
- Fissaggio tramite vite a testa piatta. Coppia di serraggio: 0,48 Nm
- Confezione da 1480 pezzi

## Lenses



(Weight/Peso 0,35 oz. / gr. 10)



# 4

LENSES & REFLECTORS



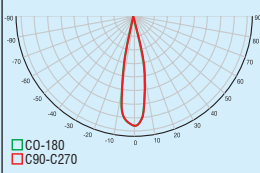
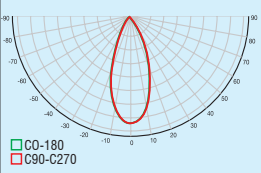
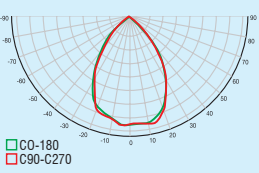
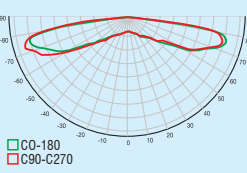
Article Articolo	2x2	2x2	2x2	2x2
Description Descrizione	90°	50°	9°	25°
Code - Codice	468780056	468780059	468780308	468780309
LED type	3535 - 5050	3535 - 5050	3535 - 5050	3535
Height lens	7,92	8,8	9,96	8,5
Polar distribution Distribuzione polare				

Article Articolo	2x2	2x2	2x2	2x2
Description Descrizione	50°	60°	90°	165°
Code - Codice	468780311	468780307	468780296	468780317
LED type	3535	3535 - 5050	3535 - 5050	3535 - 5050
Height lens	8,5	7,3	7,3	5,8
Polar distribution Distribuzione polare				



For additional technical informations see [www.tci.it](http://www.tci.it)

## Lenses

Article Articolo	2x2	2x2	2x2	2x2
Description Descrizione	25°	40°	60°	165°
Code - Codice	468780299	468780301	468780302	468780318
LED type	5050	5050	5050	5050
Height lens	12,86	13	12,86	6,68
Polar distribution Distribuzione polare				

### Technical notes for Optics

- High efficiency
- Ideal for residential, office, retail, industrial and street lighting
- Material: Optical Grade PMMA 8N
- Dimensions (LxWxH): 50x50xH mm
- Max allowed temperature: -40...85°C
- Fixing with flat head screw. Tightening torque: 0,48 Nm
- Packaging unit: 1480 pcs

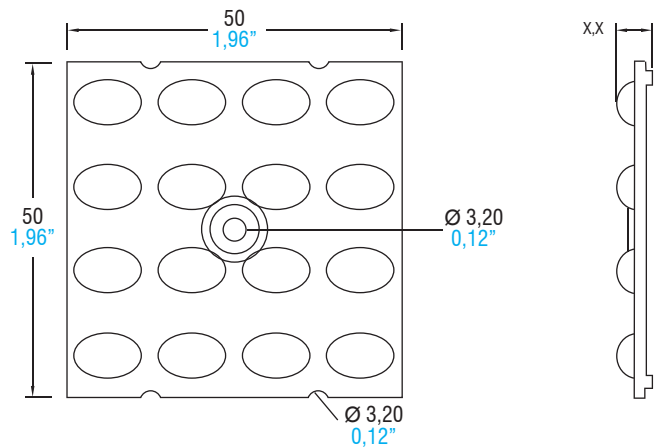
### Note tecniche per le Ottiche

- Alta efficienza
- Ideali per illuminazione residenziale, uffici, spazi commerciali, industriale e stradale
- Materiale: Optical Grade PMMA 8N
- Dimensioni (LxWxH): 50x50xH mm
- Temperatura massima: -40...85°C
- Fissaggio tramite vite a testa piatta. Coppia di serraggio: 0,48 Nm
- Confezione da 1480 pezzi

## Lenses



(Weight/Peso 2,46 oz. / gr. 70)



# 4

## LENSES & REFLECTORS



Article Articolo	4x4	4x4	4x4	4x4
Description Descrizione	<b>SYM 30°</b>	<b>SYM 55°</b>	<b>SYM 60°</b>	<b>SYM 90°</b>
Code - Codice	468780339	468780373	468780342	468780374
LED type	3030	3030	3030	3030
Height lens	6,60	7,3	6,60	3,8
Polar distribution Distribuzione polare				

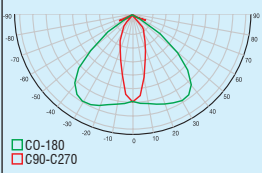
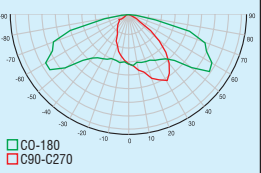
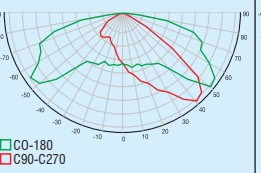
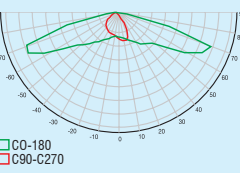
Article Articolo	4x4	4x4
Description Descrizione	<b>SYM 95°</b>	<b>SYM 150°</b>
Code - Codice	468780343	468780375
LED type	3030	3030
Height lens	5,75	3,8
Polar distribution Distribuzione polare		

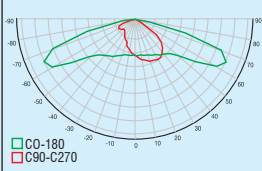
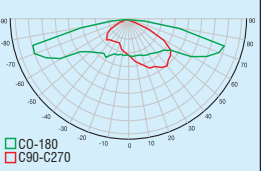
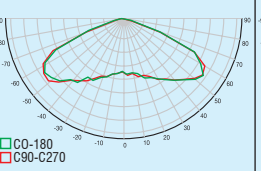
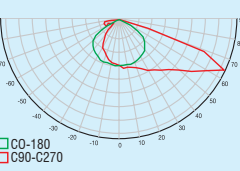


For additional technical informations see [www.tci.it](http://www.tci.it)



## Lenses

Article Articolo	4x4	4x4	4x4	4x4
Description Descrizione	ASYM 30°x100°	ASYM ST ECE ME NARROW	ASYM ST ECE ME	ASYM ST IESNA TYPE I
Code - Codice	468780344	468780345	468780346	468780347
LED type	3030	3030	3030	3030
Height lens	6,20	4,60	4,60	4,65
Polar distribution Distribuzione polare				

Article Articolo	4x4	4x4	4x4	4x4
Description Descrizione	ASYM ST IESNA TYPE II	ASYM ST IESNA TYPE III	ASYM ST IESNA TYPE Vs	110°x50°
Code - Codice	468780348	468780349	468780351	468780352
LED type	3030	3030	3030	3030
Height lens	4,15	4,15	4,75	4,95
Polar distribution Distribuzione polare				

# 4

LENSES & REFLECTORS

### Technical notes for Optics

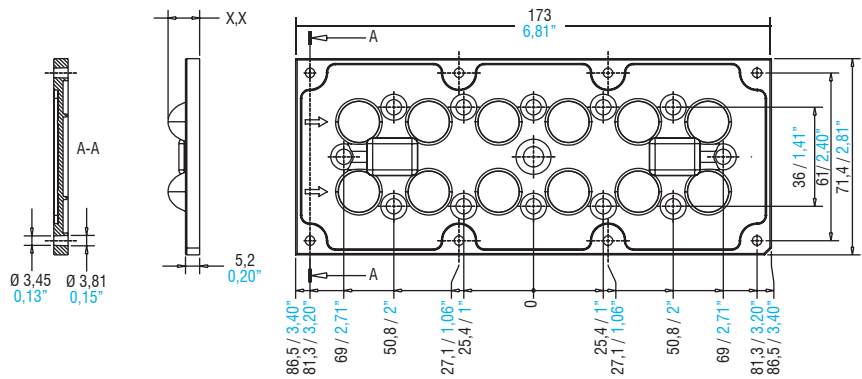
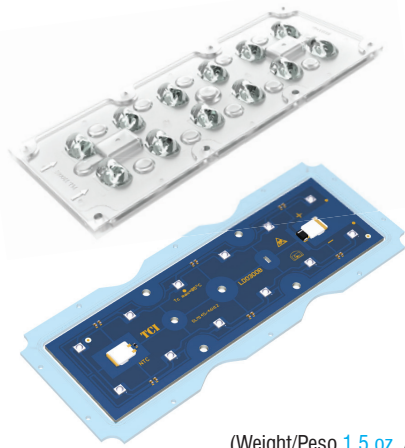
- High efficiency
- Ideal for residential, office, retail, industrial and street lighting
- Material: Optical Grade PMMA 8N
- Dimensions (LxWxH): 50x50xH mm
- Max allowed temperature: -40...85°C
- Fixing with flat head screw. Tightening torque: 0,48 Nm

### Note tecniche per le Ottiche

- Alta efficienza
- Ideali per illuminazione residenziale, uffici, spazi commerciali, industriale e stradale
- Materiale: Optical Grade PMMA 8N
- Dimensioni (LxWxH): 50x50xH mm
- Temperatura massima: -40...85°C
- Fissaggio tramite vite a testa piatta. Coppia di serraggio: 0,48 Nm

# 6x2 LENSES FOR IP65 STREET APPLICATIONS

## Lenses



(Weight/Peso 1,5 oz. / gr. 43)

4



LENSES & REFLECTORS

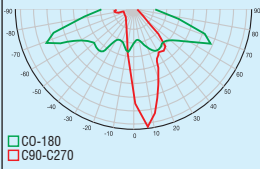
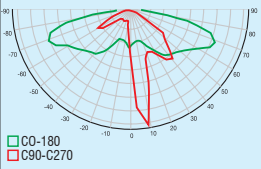
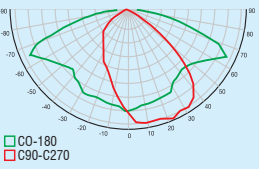
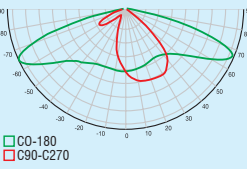
Article Articolo	6x2 STREET	6x2 STREET	6x2 STREET	6x2 STREET
Description Descrizione	IESNA TYPE III	IESNA TYPE I	IESNA TYPE V 120° FWHM	IESNA TYPE II - ME3A
Code - Codice	468780098	468780099	468780101	468780102
LED type	3535	3535	3535	3535
Height lens	8,75	8,32	8,62	8,86
Polar distribution Distribuzione polare				
Silicon Gasket for IP65	468780106	468780106	468780106	468780106

Article Articolo	6x2 STREET	6x2 STREET	6x2 STREET	6x2 STREET
Description Descrizione	IESNA TYPE III	IESNA TYPE II	IESNA TYPE III	IESNA TYPE III
Code - Codice	468780103	468780104	468780105	468780261
LED type	3535	3535	3535	3535
Height lens	9,08	10,81	9,41	10,17
Polar distribution Distribuzione polare				
Silicone Gasket for IP65	468780106	468780106	468780106	468780106



For additional technical informations see [www.tci.it](http://www.tci.it)

## Lenses

Article Articolo	6x2 STREET	6x2 STREET	6x2 STREET	6x2 STREET
Description Descrizione	IESNA TYPE II	IESNA TYPE III	IESNA TYPE II	IESNA TYPE II MEDIUM
Code - Codice	468780262	468780263	468780264	468780265
LED type	3535	3535	3535	3535
Height lens	9,42	8,41	8,41	10,02
Polar distribution Distribuzione polare				
Silicon Gasket for IP65	468780106	468780106	468780106	468780106

# 4

LENSES & REFLECTORS

### Technical notes for Optics

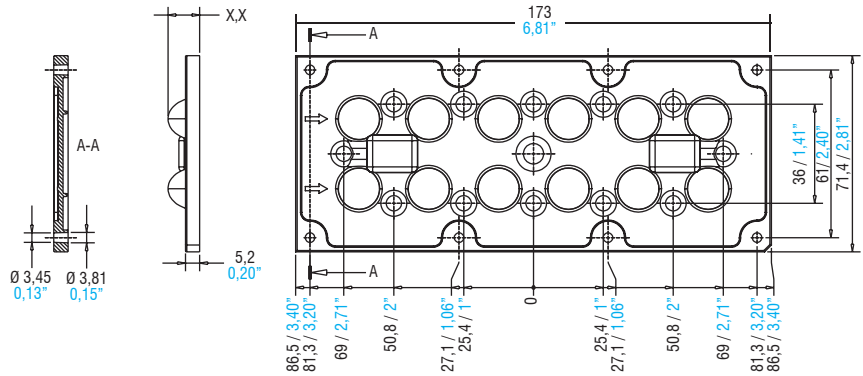
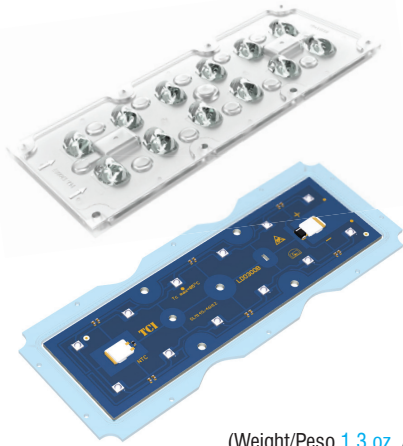
- Uniform light distribution
- High efficiency
- Ideal for street and outdoor lighting
- Material: Optical Grade PMMA 8N
- Dimensions (LxWxH): 173x71,4xH mm
- Max allowed temperature: -40...90°C.
- Fixing with flat head screws. Tightening torque: 0,48 Nm
- Packaging unit: 200 pcs
- IP65 with silicone gasket

### Note tecniche per le Ottiche

- Distribuzione di luce uniforme
- Alta efficienza
- Ideali per illuminazione stradale e da esterno
- Materiale: Optical Grade PMMA 8N
- Dimensioni (LxWxH): 173x71,4xH mm
- Temperatura massima: -40...90°C
- Fissaggio tramite viti a testa piatta. Coppia di serraggio: 0,48 Nm
- Confezione da 200 pezzi
- IP65 con guarnizione in silicone

# 6x2 LENSES FOR IP65 HIGH-BAY APPLICATIONS

## Lenses



(Weight/Peso 1,3 oz. / gr. 37)

4



LENSES & REFLECTORS

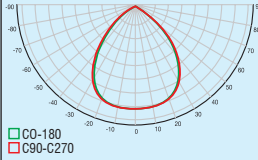
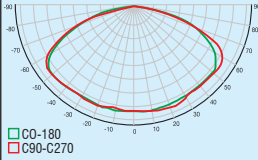
Article Articolo	6x2 HIGH-BAY	6x2 HIGH-BAY	6x2 HIGH-BAY	6x2 HIGH-BAY
Beam Angle Angolo di orientamento	60°	90°	120°	130° SQUARE
Code - Codice	468780094	468780095	468780096	468780097
LED type	3535 - 5050	3535 - 5050	3535 - 5050	3535 - 5050
Height lens	11,52	11,79	8,4	8,32
Polar distribution Distribuzione polare				
Silicone Gasket for IP65	468780106	468780106	468780106	468780106

Article Articolo	6x2 HIGH-BAY	6x2 HIGH-BAY	6x2 HIGH-BAY	6x2 HIGH-BAY
Beam Angle Angolo di orientamento	6x2 WIDE BEAM 34	6x2 NARROW BEAM 15	30°	60°
Code - Codice	468780267	468780266	468780323	468780324
LED type	3535	3535	3535 - 5050	3535 - 5050
Height lens	10,94	10,94	13,15	15,3
Polar distribution Distribuzione polare				
Silicone Gasket for IP65	468780106	468780106	468780332	468780332



For additional technical informations see [www.tci.it](http://www.tci.it)

## Lenses

Article Articolo	6x2 HIGH-BAY	6x2 HIGH-BAY
Beam Angle Angolo di orientamento	90°	150°
Code - Codice	468780325	468780326
LED type	3535 - 5050	3535 - 5050
Height lens	8,61	8,48
Polar distribution Distribuzione polare		
Silicone Gasket for IP65	468780332	468780332

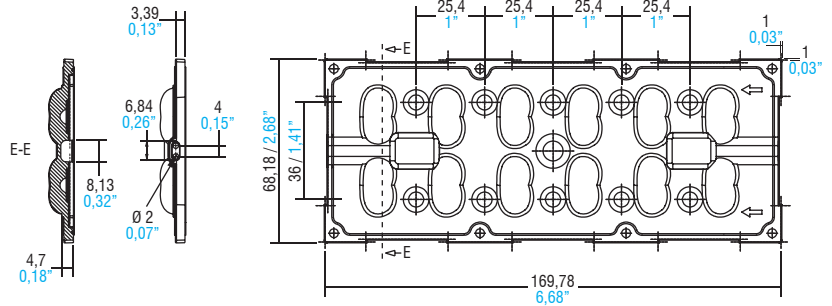
### Technical notes for Optics

- Uniform light distribution
- High efficiency
- Ideal for office, industrial and outdoor lighting
- Material: Optical Grade PMMA 8N
- Dimensions (LxWxH): 173x71,4xH mm
- Max allowed temperature: -40...90°C
- Fixing with flat head screws. Tightening torque: 0,48 Nm
- Packaging unit: 200 pcs
- IP65 with optional silicone gasket

### Note tecniche per le Ottiche

- Distribuzione di luce uniforme
- Alta efficienza
- Ideali per illuminazione di uffici, industriale e da esterno
- Materiale: Optical Grade PMMA 8N
- Dimensioni (LxWxH): 173x71,4xH mm
- Temperatura massima: -40...90°C
- Fissaggio tramite viti a testa piatta. Coppia di serraggio: 0,48 Nm
- Confezione da 200 pezzi
- IP65 con guarnizione in silicone opzionale

## Lenses



4

LENSES & REFLECTORS

Article Articolo	6x2 SILICONE	6x2 SILICONE	6x2 SILICONE	6x2 SILICONE
Description Descrizione	130° - IESNA TYPE V	IESNA TYPE II	IESNA TYPE II	IESNA TYPE III - ME3A
Code - Codice	468780174	468780175	468780177	468780176
LED type	5050	5050	5050	5050
Height lens	8,61	9,15	8,93	9,43
Polar distribution Distribuzione polare				

Article Articolo	6x2 SILICONE
Description Descrizione	IESNA TYPE III - ME3A
Code - Codice	468780178
LED type	5050
Height lens	9,44
Polar distribution Distribuzione polare	

Article - Articolo	Code - Codice	
Lens Holder White	468780179	

### Technical notes for Silicone Optics

- Temperature range: -50...+110°C
- Compatible with a wide range of chemical agents
- Ideal for office, industrial, outdoor and street lighting
- FDA approved
- IK10 compliant (reference Norm EN62628)
- No external cover glass needed
- 94% transmission for wavelengths between 265 nm and 1000 nm
- Self hydrophobic. No halos nor drops
- Dimensions (LxWxH): 173x71,4xH mm (frame included)
- Packaging unit: 120 pcs
- Self IP65 by dedicate frame code 468780179

### Note tecniche per le Ottiche Siliconiche

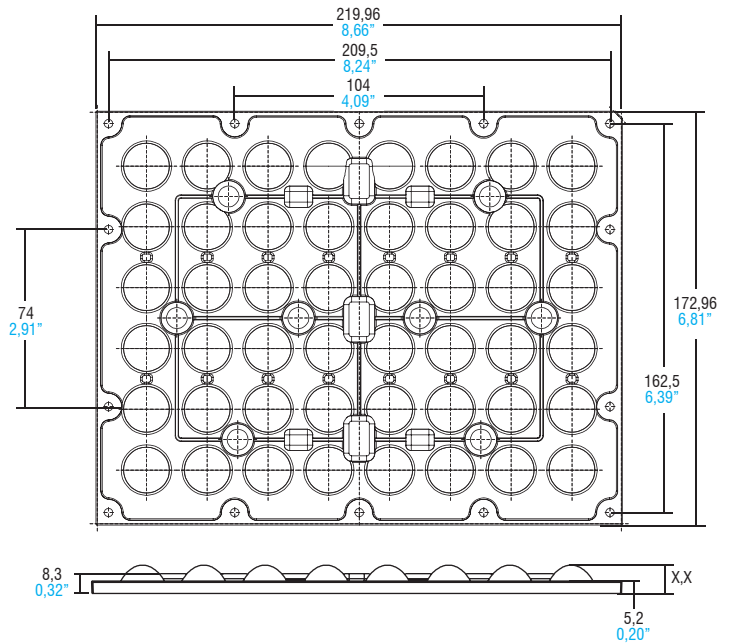
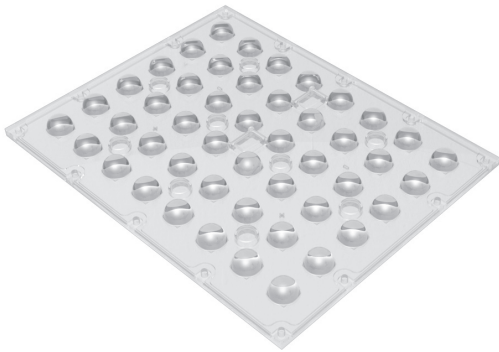
- Temperatura di esercizio: -50...+110°C
- Compatibilità con una vasta gamma di agenti chimici
- Ideali per illuminazione di uffici, industriale, da esterno e stradale
- Riconoscimento FDA
- Conforme IK10 (Norma di riferimento EN62628)
- Vetro di protezione per uso in esterno non necessario
- Trasmittanza del 94% per lunghezze d'onda comprese tra 265 nm a 1000 nm
- Materiale con proprietà idrofobiche. Assenza di gocce o aloni
- Dimensioni (LxWxH): 173x71,4xH mm (incluso frame)
- Confezione da 120 pezzi
- IP65, guarnizione integrata. Tenuta garantita dal frame codice 468780179



For additional technical informations see [www.tci.it](http://www.tci.it)



## Lenses



4



LENSES & REFLECTORS

Article Articolo	48 HIGH-BAY	48 HIGH-BAY	48 HIGH-BAY	48 HIGH-BAY
Beam Angle Angolo di orientamento	ASY	ASY - ROTATED	90°	120°
Code- Codice	468780167	468780167A	468780133	468780134
Height lens	5,2	5,2	11,79	8,4
Polar distribution Distribuzione polare				

Article Articolo	<b>GASKET 48 HIGH-BAY</b>	
Description Descrizione	Silicone Gasket for IP65	
Code Codice	468780166	

### Technical notes for Optics

- Uniform light distribution
- High efficiency
- Ideal for industrial and outdoor lighting
- Material: Optical Grade PMMA 8N
- Dimensions (LxWxH): 220x173xH mm
- Max allowed temperature: -40...90°C
- Fixing with flat head screws. Tightening torque: 0,48 Nm
- Packaging unit: 80 pcs
- IP65 with optional silicone gasket

### Note tecniche per le Ottiche

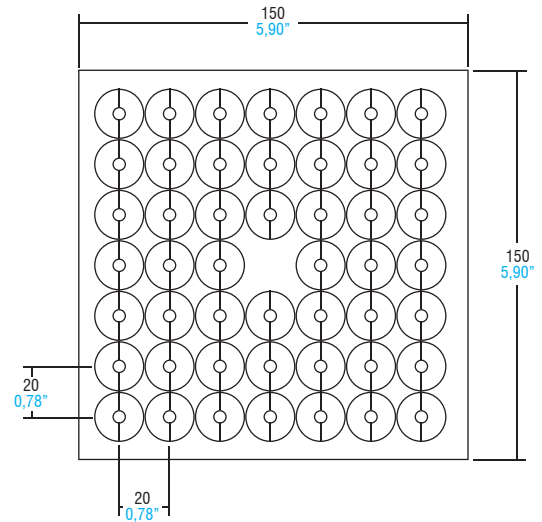
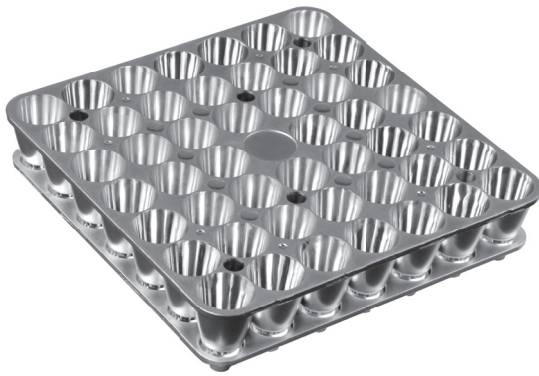
- Distribuzione di luce uniforme
- Alta efficienza
- Ideali per illuminazione industriale e da esterno
- Materiale: Optical Grade PMMA 8N
- Dimensioni (LxWxH): 220x173xH mm
- Temperatura massima: -40...90°C
- Fissaggio tramite viti a testa piatta. Coppia di serraggio: 0,48 Nm
- Confezione da 80 pezzi
- IP65 con guarnizione in silicone opzionale



For additional technical informations see [www.tci.it](http://www.tci.it)



## Reflectors



Article Articolo	ARENA 48	ARENA 48	ARENA 48	ARENA 48
Beam Angle Angolo di orientamento	8,5°	19°	38°	50°
Code - Codice	468780363	468780364	468780367	468780365
Height lens	30,5	21,1	10	16
Polar distribution Distribuzione polare				
COVER	468780369	468780371	468780371	468780372

Article Articolo	ARENA 48	ARENA 48
Beam Angle Angolo di orientamento	80°	120°x95°
Code - Codice	468780366	468780368
Height lens	10,75	5,75
Polar distribution Distribuzione polare		
COVER	468780372	468780372

### Technical notes for Reflectors

- Uniform light distribution
- High efficiency
- Ideal for industrial and outdoor lighting
- Dimensions (LxWxH): 150x150xH mm
- Max allowed temperature: -40...90°C
- Fixing with flat head screws. Tightening torque: 0,48 Nm
- IP65 with optional flat cover

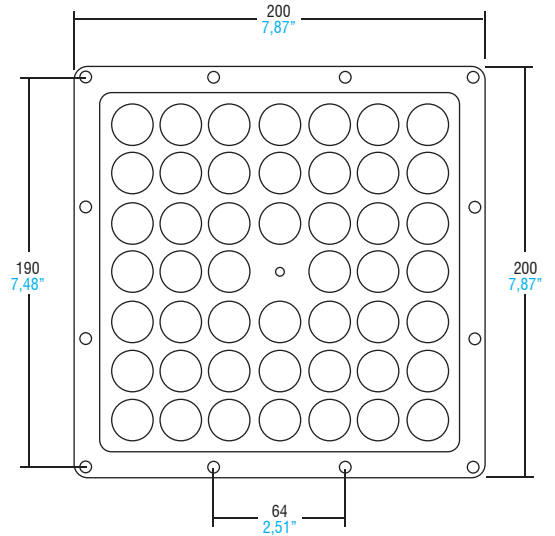
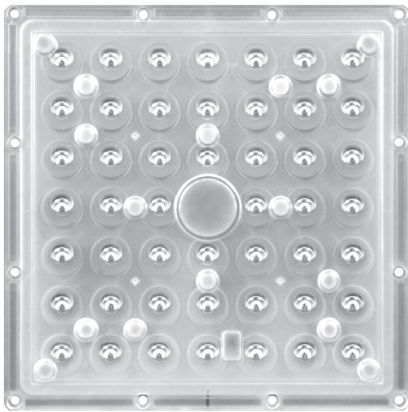
### Note tecniche per i Riflettori

- Distribuzione di luce uniforme
- Alta efficienza
- Ideali per illuminazione industriale e da esterno
- Dimensioni (LxWxH): 150x150xH mm
- Temperatura massima: -40...90°C
- Fissaggio tramite viti a testa piatta. Coppia di serraggio: 0,48 Nm
- IP65 con cover piatta



For additional technical informations see [www.tci.it](http://www.tci.it)

## Lenses



4



LENSES & REFLECTORS

Article Articolo	STADIUM 48	STADIUM 48	STADIUM 48	STADIUM 48
Beam Angle Angolo di orientamento	15°	23°	40°	130°x110°
Code - Codice	468780242	468780243	468780244	468780245
Height lens	13	13	13	8,5
Polar distribution Distribuzione polare				
Silicone Gasket for IP65	468780241	468780241	468780241	468780241

### Technical notes for Optics

- Uniform light distribution.
- Highly efficient.
- Material: Optical Grade PMMA 8N
- Dimensions: 200x200xH
- Max allowed temperature: -40°C...90°C.
- Fixing with flat head screws. Tightening torque: 0,48 Nm
- IP65 with silicone gasket

### Note tecniche per le Ottiche

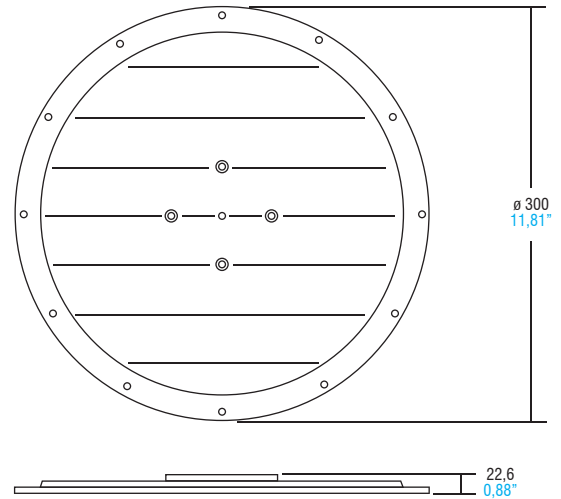
- Distribuzione di luce uniforme.
- Alta efficienza.
- Materiale: Optical Grade PMMA 8N
- Dimensioni: 200x200xH
- Temperatura massima: -40°C...90°C.
- Fissaggio tramite viti a testa piatta. Coppia di serraggio: 0,48 Nm
- IP65 con guarnizione in silicone



For additional technical informations see [www.tci.it](http://www.tci.it)



## Lenses



4



LENSES & REFLECTORS

Article Articolo	STRATOS	STRATOS	STRATOS
Beam Angle Angolo di orientamento	EL	60°	90°
Code Codice	468780359	468780361	468780362
Polar distribution Distribuzione polare			

Lens code with GASKET IP65. Codice lente già fornito di GASKET IP65.

### Technical notes for Optics

- Uniform light distribution.
- Highly efficient.
- Material: Optical Grade PMMA 8N
- Dimensions:  $\varnothing$  300
- Max allowed temperature: -40°C...90°C.
- Fixing with flat head screws. Tightening torque: 0,48 Nm

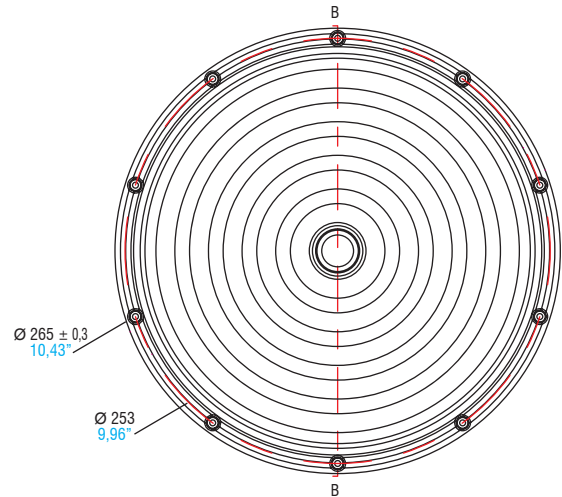
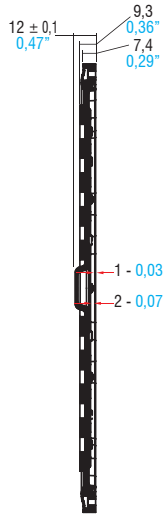
### Note tecniche per le Ottiche

- Distribuzione di luce uniforme.
- Alta efficienza.
- Materiale: Optical Grade PMMA 8N
- Dimensioni:  $\varnothing$  300
- Temperatura massima: -40°C...90°C.
- Fissaggio tramite viti a testa piatta. Coppia di serraggio: 0,48 Nm



For additional technical informations see [www.tci.it](http://www.tci.it)

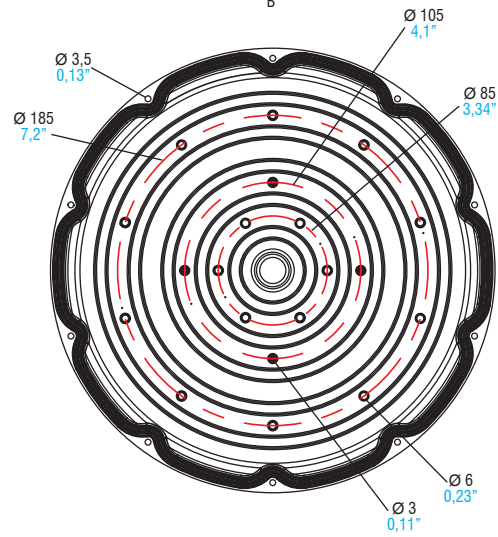
Lenses



(Weight/Peso 10,7 oz. / gr. 302)



Article Articolo	TARGET	TARGET
Beam Angle Angolo di orientamento	60°	90°
Code Codice	468780272	468780273
Polar distribution Distribuzione polare		



Article Articolo	GASKET	
Description Descrizione	Silicone Gasket for IP65	
Code Codice	468780282	

Technical notes for Optics

- Uniform light distribution.
- Highly efficient.
- Ideal for industrial and outdoor lighting
- Material: Polycarbonate
- Dimensions: Ø 265
- Max allowed temperature: -35°C...+125°C
- Fixing with flat head screws. Tightening torque: 0,48 Nm
- Packaging unit: 25 pcs
- IP65 with optional silicone gasket

Note tecniche per le Ottiche

- Distribuzione di luce uniforme.
- Alta efficienza.
- Ideali per illuminazione industriale e da esterno
- Materiale: Policarbonato
- Dimensioni: Ø 265
- Temperatura massima: -35°C...+125°C
- Fissaggio tramite viti a testa piatta. Coppia di serraggio: 0,48 Nm
- Confezione da 25 pezzi
- IP65 con guarnizione in silicone opzionale



For additional technical informations see [www.tci.it](http://www.tci.it)

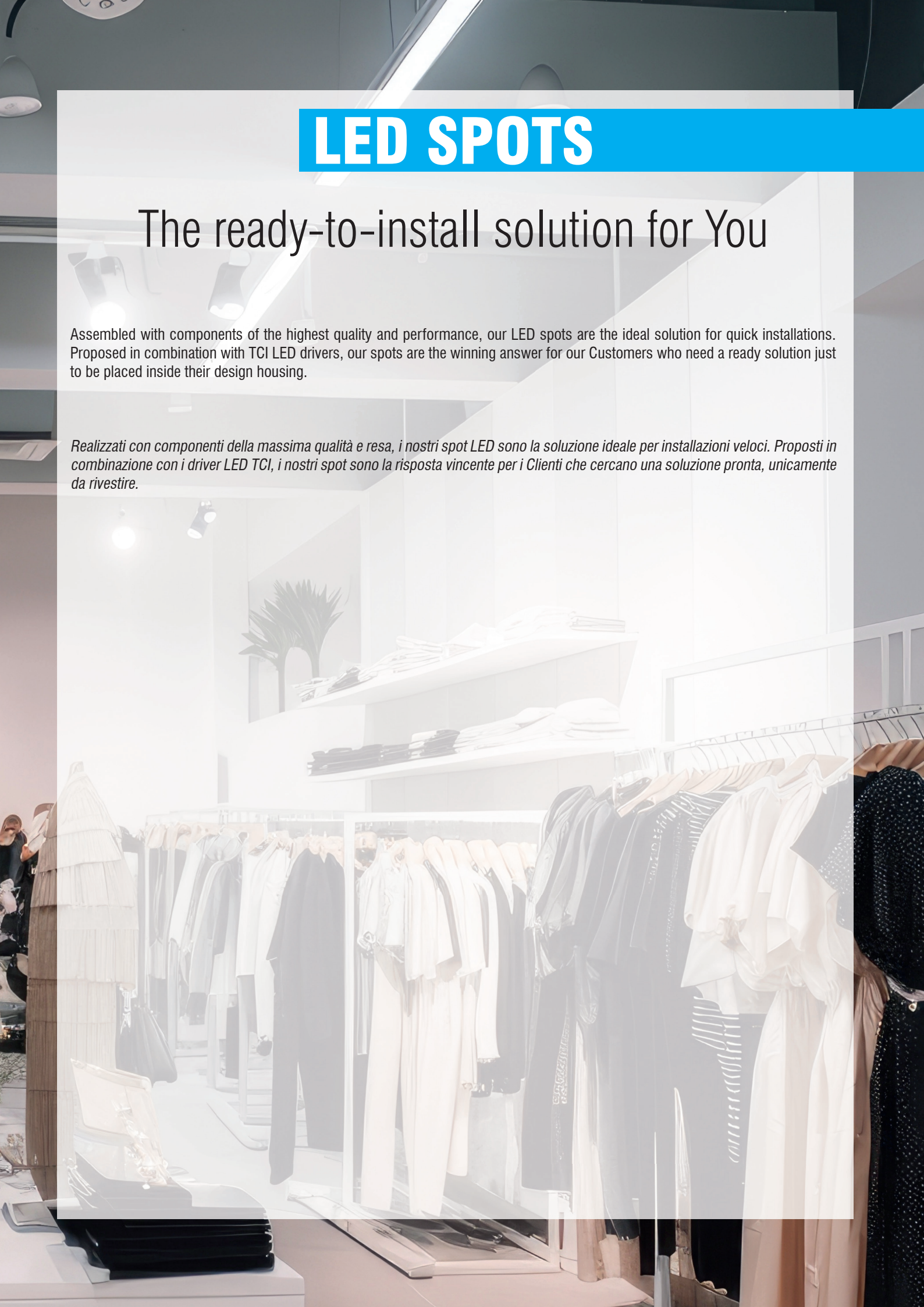


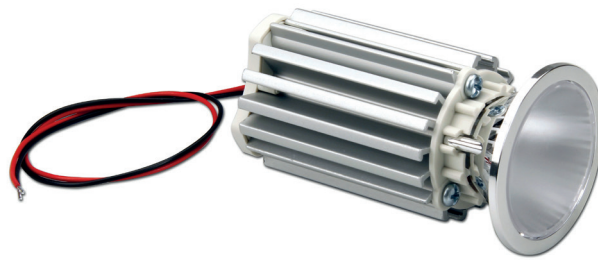
# LED SPOTS

## The ready-to-install solution for You

Assembled with components of the highest quality and performance, our LED spots are the ideal solution for quick installations. Proposed in combination with TCI LED drivers, our spots are the winning answer for our Customers who need a ready solution just to be placed inside their design housing.

*Realizzati con componenti della massima qualità e resa, i nostri spot LED sono la soluzione ideale per installazioni veloci. Proposti in combinazione con i driver LED TCI, i nostri spot sono la risposta vincente per i Clienti che cercano una soluzione pronta, unicamente da rivestire.*





constant  
**CURRENT**

**CRI**  
>80  
>90

**Rated Current**  
150 mA  
200 mA  
250 mA

**Available (CCT) colour temperature**  
3000 K  
4000 K

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5000 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
20°  
35°  
55°

**Ambient temperature**  
**ta:** -40...+45 °C  
(Only for tc ≤ 90 °C)

**Module temperature**  
**tc:** 90 °C

**Standards compliance**  
EN 55015  
EN 61347-1  
EN 62031  
EN 62471

**5 LED SPOTS**

Article Articolato	Code Codice	Temp. Color Colore	Typ Current (I typ) mA	Flux lm <sup>(1)</sup> (I typ 25°C) tc	Flux lm <sup>(1)</sup> (I typ 80°C) tc	V	Power W	Efficacy Tc 25°C lm/W	Efficacy Tc 80°C lm/W	ta °C	tc °C	CRI	Beam angle		
<b>LED SPOT 600 CRI 80</b>	131296/830/20	3000K	150	774	720	33,3	4,9	158	150	-20...+45	90	>80	20°		
			200	1020	948	33,3	6,6	154	146	-20...+45					
			250	1259	1170	33,3	8,4	150	142	-20...+45					
	131296/830/35	3000K	3000K	150	774	720	33,3	4,9	158	150	-20...+45	90	>80	35°	
				200	1020	948	33,3	6,6	154	146	-20...+45				
				250	1259	1170	33,3	8,4	150	142	-20...+45				
	131296/830/55	3000K	3000K	150	774	720	33,3	4,9	158	150	-20...+45	90	>80	55°	
				200	1020	948	33,3	6,6	154	146	-20...+45				
				250	1259	1170	33,3	8,4	150	142	-20...+45				
	131296/840/20	4000K	4000K	150	813	756	33,3	4,9	166	157	-20...+45	90	>80	20°	
				200	1070	995	33,3	6,6	162	153	-20...+45				
				250	1322	1230	33,3	8,4	157	150	-20...+45				
131296/840/35			4000K	4000K	150	813	756	33,3	4,9	166	157	-20...+45	90	>80	35°
					200	1070	995	33,3	6,6	162	153	-20...+45			
					250	1322	1230	33,3	8,4	157	150	-20...+45			
131296/840/55	4000K	4000K	150	813	756	33,3	4,9	166	157	-20...+45	90	>80	55°		
			200	1070	995	33,3	6,6	162	153	-20...+45					
			250	1322	1230	33,3	8,4	157	150	-20...+45					
<b>LED SPOT 600 CRI 90</b>	131296/930/20	3000K	150	663	617	33,3	4,9	135	128	-20...+45	90	>90	20°		
			200	874	812	33,3	6,6	132	125	-20...+45					
			250	1078	1002	33,3	8,4	129	122	-20...+45					
	131296/930/35	3000K	3000K	150	663	617	33,3	4,9	135	128	-20...+45	90	>90	35°	
				200	874	812	33,3	6,6	132	125	-20...+45				
				250	1078	1002	33,3	8,4	129	122	-20...+45				
	131296/930/55	3000K	3000K	150	663	617	33,3	4,9	135	128	-20...+45	90	>90	55°	
				200	874	812	33,3	6,6	132	125	-20...+45				
				250	1078	1002	33,3	8,4	129	122	-20...+45				
	131296/940/20	4000K	4000K	150	697	648	33,3	4,9	142	135	-20...+45	90	>90	20°	
				200	918	853	33,3	6,6	138	131	-20...+45				
				250	1133	1053	33,3	8,4	135	128	-20...+45				
	131296/940/35	4000K	4000K	150	697	648	33,3	4,9	142	135	-20...+45	90	>90	35°	
				200	918	853	33,3	6,6	138	131	-20...+45				
				250	1133	1053	33,3	8,4	135	128	-20...+45				
131296/940/55	4000K	4000K	150	697	648	33,3	4,9	142	135	-20...+45	90	>90	55°		
			200	918	853	33,3	6,6	138	131	-20...+45					
			250	1133	1053	33,3	8,4	135	128	-20...+45					

<sup>(1)</sup> The written flux includes the 20% losses due to the reflector - Il flusso riportato include la perdita del 20% dovuta al riflettore

### Main features

- LED SPOT for built-in use.
- Polycarbonate spotlight 50mm diameter.
- PMMA diffusing or transparent lens to cover the spotlight.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Perfect light uniformity.
- Anodized aluminium heat sink.
- Provided with power wires and tear-proof cable clamps.
- Emitting angle: 20°/35°/55°.
- High efficiency of the system in combination with TCI drivers.
- The use is guaranteed in combination with TCI drivers only.

### Caratteristiche principali

- SPOT LED da incorporare.
- Riflettore in policarbonato Diametro 50 mm.
- Lente diffondente o trasparente in PMMA a copertura del riflettore.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Perfetta uniformità di luce.
- Dissipatore in alluminio anodizzato.
- Provvisto di cavi di alimentazione e fissacavo antistrappo.
- Angolo di emissione: 20°/35°/55°.
- Alta efficienza del sistema in combinazione con driver TCI.
- L'utilizzo è garantito in combinazione con driver TCI.



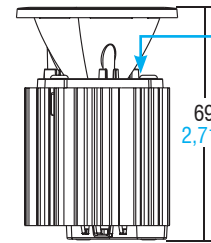
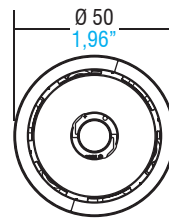
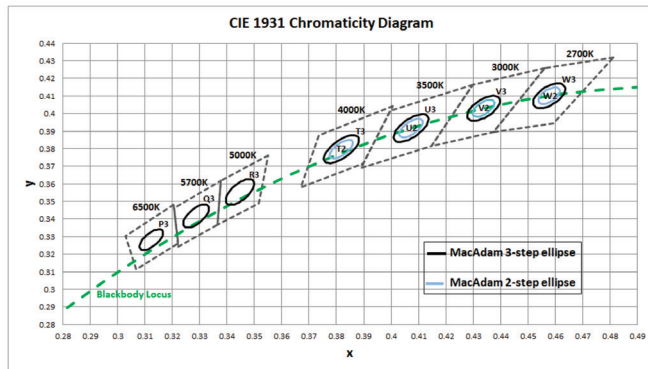


## LED spots

### Technical features - Caratteristiche tecniche

Chromaticity region & Coordinates ( $I_f = 360 \text{ mA}$ ,  $T_j = 85 \text{ °C}$ )

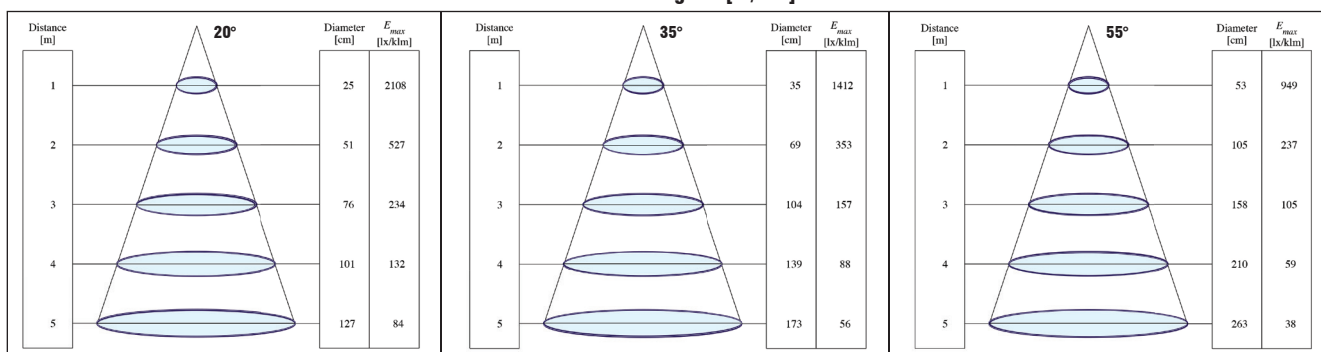
**LED SPOT 600** (Weight/Peso 3,17 oz. / gr. 90 - Pcs/Pezzi 20)



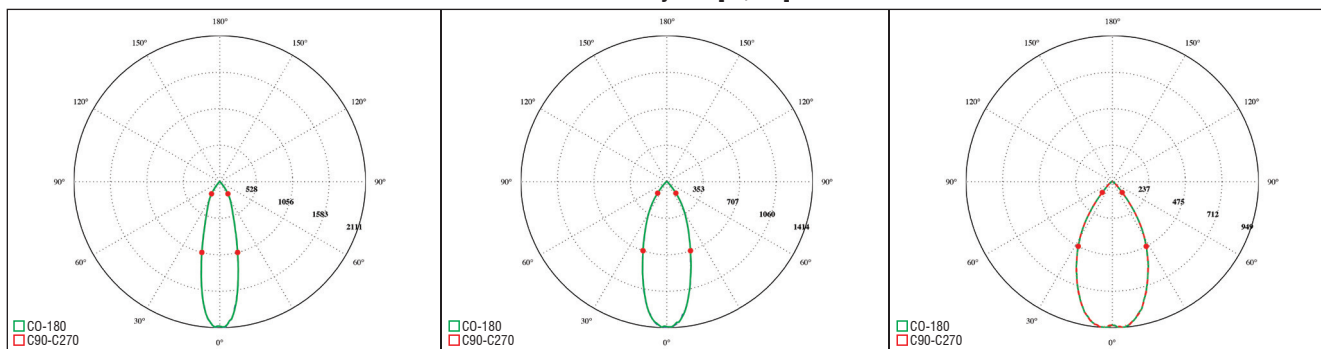
The **tc point** is on the welding point between the COB and the black wire

**tc point** è preso sul punto di saldatura tra piazzola COB e filo nero

### Illuminance Diagram [Lx/klm]



### Polar Intensity Plot [cd/klm]



I dati indicati sono stati rilevati a CCT 4000K CRI>90 @250mA,  $T_c = 80 \text{ °C}$

### LED driver choice table - Tabella di scelta driver

Article	Current	Power	Standard Driver		Standard Driver PFC > 0,9		Dimmable 1-10V & PUSH		Dimmable DALI	
			Article	Code	Article	Code	Article	Code	Article	Code
LED SPOT 600	150	5	MP 15	122360	UNIVERSALE LC	122203	MINIJOLLY LC	123401-151401	-	-
	200	7	MP 15	122360	UNIVERSALE LC	122203	MINIJOLLY LC	123401-151401	-	-
	250	8,7	MP 15	122360	UNIVERSALE 20	122201	MINIJOLLY LC	123401-151401	MINIJOLLY DALI	125403-151403
			DCC 10W 250mA US	122358	UNIVERSALE LC	122203				

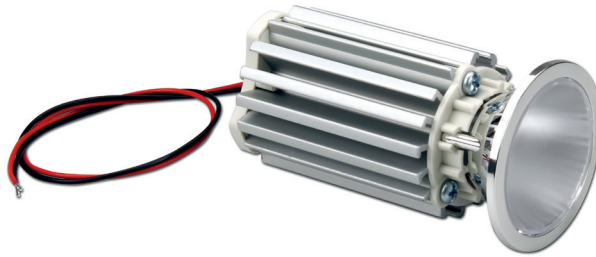
Article	Code	Rated Voltage	P out W <sup>(1)</sup>	V out	dimension (mm)	Ø mm	Efficiency (100%) <sup>(1)</sup>	ta °C	tc °C	Power Factor λ	Dimmable
DCC 10W 250mA	122358	110-240	10	43	115x34x19	40	73	-25+50	75	0,6 C	NO
MP 15	122360	100-240	15 (10)	41,5	115x34x19	40	82	-25+50	75	0,6 C	NO
UNIVERSALE 20 LC	122203	220-240	20	55	110x52x22	55	>87	-25+50	75	0,95	NO
MINIJOLLY	125400-151400	110-240	20	43	110x52x22	55	>87	-25+50	80	0,95	1...10V - PUSH
MINIJOLLY LC	123401-151401	110-240	20	43	110x52x22	55	>87	-25+45	75	0,95	1...10V - PUSH
MINIJOLLY DALI	125403-151403	110-240	20	43	110x52x22	55	>87	-25+45	75	0,95	DALI

<sup>(1)</sup> Referred to  $V_{in} = 230 \text{ V}$ , 100% load - Riferito a  $V_{in} = 230 \text{ V}$ , carico 100%

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

UP TO  
**157**  
lm/W

**L80  
B20**  
>150.000 h  
@ tc=80 °C



constant  
**CURRENT**

**CRI**  
>80  
>90

**Rated Current**  
250 mA  
300 mA  
350 mA

**Available (CCT)  
colour temperature**  
3000 K  
4000 K

**5**

**LED SPOTS**

2700 K on request - su richiesta  
3500 K on request - su richiesta  
5000 K on request - su richiesta  
5700 K on request - su richiesta  
6500 K on request - su richiesta

**Beam angle**  
20°  
35°  
55°

**Ambient temperature**  
**ta:** -40...+45 °C  
(Only for tc ≤ 90 °C)

**Module temperature**  
**tc:** 90 °C

**Standards compliance**  
EN 55015  
EN 61347-1  
EN 62031  
EN 62471

Article Articolo	Code Codice	Temp. Color Colore	Typ Current (I typ) mA	Flux Im <sup>(1)</sup> (I typ 25°C) tc	Flux Im <sup>(1)</sup> (I typ 80°C) tc	V	Power W	Efficacy Tc 25°C lm/W	Efficacy Tc 80°C lm/W	ta °C	tc °C	CRI	Beam angle
<b>LED SPOT 1000 CRI 80</b>	131297/830/20	3000K	250	1260	1170	34,3	8,4	150	142	-20...+45	90	>80	20°
			300	1490	1390	34,7	10,1	146	139	-20...+45			
			350	1720	1595	35,2	12,9	143	135	-20...+45			
	131297/830/35	3000K	250	1260	1170	34,3	8,4	150	142	-20...+45	90	>80	35°
			300	1490	1390	34,7	10,1	146	139	-20...+45			
			350	1720	1595	35,2	12,9	143	135	-20...+45			
	131297/830/55	3000K	250	1260	1170	34,3	8,4	150	142	-20...+45	90	>80	55°
			300	1490	1390	34,7	10,1	146	139	-20...+45			
			350	1720	1595	35,2	12,9	143	135	-20...+45			
	131297/840/20	4000K	250	1322	1230	34,3	8,4	157	150	-20...+45	90	>80	20°
			300	1565	1455	34,7	10,1	154	146	-20...+45			
			350	1800	1675	35,2	12,9	150	142	-20...+45			
131297/840/35	4000K	250	1322	1230	34,3	8,4	157	150	-20...+45	90	>80	35°	
		300	1565	1455	34,7	10,1	154	146	-20...+45				
		350	1800	1675	35,2	12,9	150	142	-20...+45				
131297/840/55	4000K	250	1322	1230	34,3	8,4	157	150	-20...+45	90	>80	55°	
		300	1565	1455	34,7	10,1	154	146	-20...+45				
		350	1800	1675	35,2	12,9	150	142	-20...+45				
<b>LED SPOT 1000 CRI 90</b>	131297/930/20	3000K	250	1080	1002	34,3	8,4	129	122	-20...+45	90	>90	20°
			300	1280	1190	34,7	10,1	125	119	-20...+45			
			350	1470	1370	35,2	12,9	122	116	-20...+45			
	131297/930/35	3000K	250	1080	1002	34,3	8,4	129	122	-20...+45	90	>90	35°
			300	1280	1190	34,7	10,1	125	119	-20...+45			
			350	1470	1370	35,2	12,9	122	116	-20...+45			
	131297/930/55	3000K	250	1080	1002	34,3	8,4	129	122	-20...+45	90	>90	55°
			300	1280	1190	34,7	10,1	125	119	-20...+45			
			350	1470	1370	35,2	12,9	122	116	-20...+45			
	131297/940/20	4000K	250	1133	1053	34,3	8,4	135	128	-20...+45	90	>90	20°
			300	1340	1245	34,7	10,1	132	125	-20...+45			
			350	1545	1435	35,2	12,9	128	122	-20...+45			
131297/940/35	4000K	250	1133	1053	34,3	8,4	135	128	-20...+45	90	>90	35°	
		300	1340	1245	34,7	10,1	132	125	-20...+45				
		350	1545	1435	35,2	12,9	128	122	-20...+45				
131297/940/55	4000K	250	1133	1053	34,3	8,4	135	128	-20...+45	90	>90	55°	
		300	1340	1245	34,7	10,1	132	125	-20...+45				
		350	1545	1435	35,2	12,9	128	122	-20...+45				

<sup>(1)</sup> The written flux includes the 20% losses due to the reflector - Il flusso riportato include la perdita del 20% dovuta al riflettore

### Main features

- LED SPOT for built-in use.
- Polycarbonate spotlight 50mm diameter.
- PMMA diffusing or transparent lens to cover the spotlight.
- Minimum colour tolerance: 3MacAdam (3SDCM).
- Perfect light uniformity.
- Anodized aluminium heat sink.
- Provided with power wires and tear-proof cable clamps.
- Emitting angle: 20°/35°/55°.
- High efficiency of the system in combination with TCI drivers.
- The use is guaranteed in combination with TCI drivers only.

### Caratteristiche principali

- SPOT LED da incorporare.
- Riflettore in policarbonato Diametro 50 mm.
- Lente diffondente o trasparente in PMMA a copertura del riflettore.
- Minima tolleranza di colore: 3MacAdam (3SDCM).
- Perfetta uniformità di luce.
- Dissipatore in alluminio anodizzato.
- Provvisto di cavi di alimentazione e fissacavo antistrappo.
- Angolo di emissione: 20°/35°/55°.
- Alta efficienza del sistema in combinazione con driver TCI.
- L'utilizzo è garantito in combinazione con driver TCI.

**7**  
YEARS  
WARRANTY  
3% FAILURE RATE

**10**  
YEARS  
WARRANTY  
5% FAILURE RATE

PRODUCER'S LIABILITY  
**TCI**

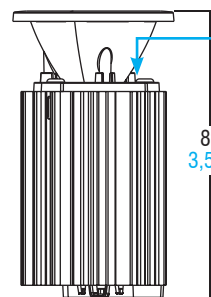
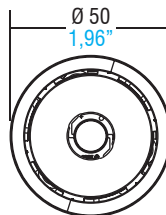
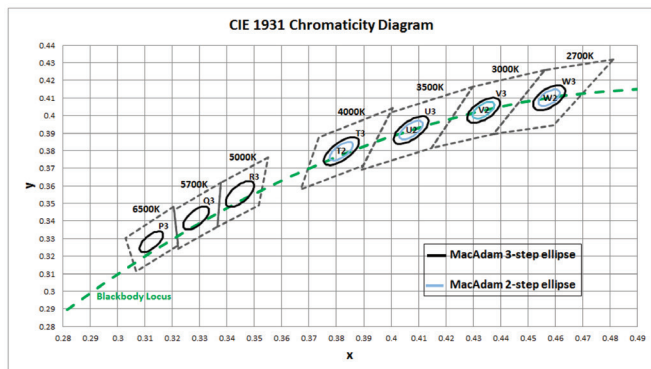
WARRANTY 10 YEARS  
ACCORDING TO  
THE EUROPEAN  
CONDITIONS

## LED spots

### Technical features - Caratteristiche tecniche

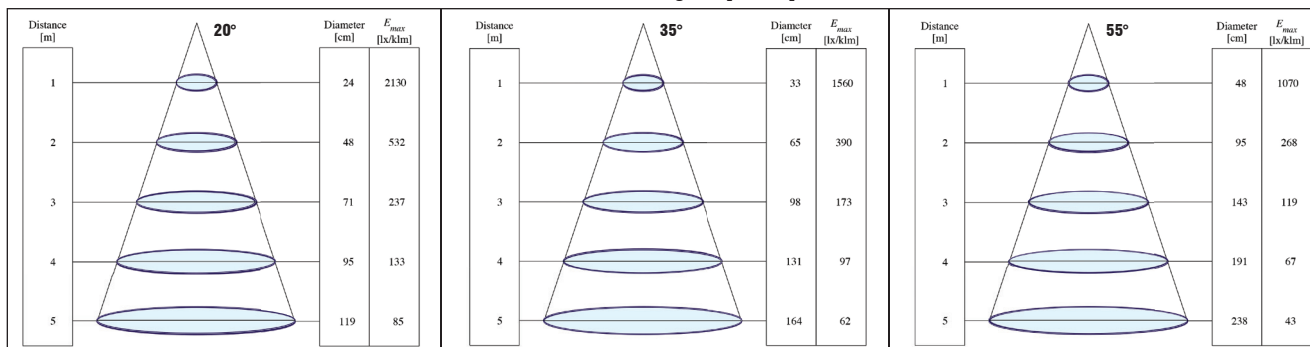
Chromaticity region & Coordinates ( $I_f=360\text{ mA}$ ,  $T_j=85\text{ °C}$ )

**LED SPOT 1000** (Weight/Peso **4,58 oz.** / gr. 130 - Pcs/Pezzi 20)

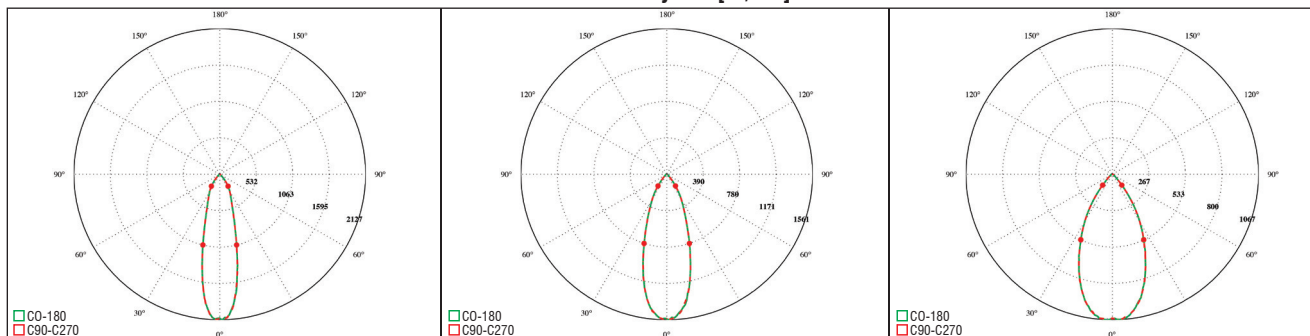


The **tc point** is on the welding point between the COB and the black wire  
**tc point** è preso sul punto di saldatura tra piazzola COB e filo nero

### Illuminance Diagram [Lx/klm]



### Polar Intensity Plot [cd/klm]



I dati indicati sono stati rilevati a CCT 4000K CRI>90 @350mA, Tc=80°C

### LED driver choice table - Tabella di scelta driver

Article	Current	Power	Standard Driver		Standard Driver PFC>0,9		Dimmable 1-10V & PUSH		Dimmable DALI	
			Article	Code	Article	Code	Article	Code	Article	Code
LED SPOT 1000	250	8,7	MP 15	122360	UNIVERSALE 20	122201	MINIJOLLY LC	123401-151401	MINIJOLLY DALI	125403-151403
			DCC 10W 250mA US	122358	UNIVERSALE LC	122203				
	300	10,6	MP 15	122360	UNIVERSALE LC	122203	MINIJOLLY LC	123401-151401	-	-
			DCC 15W 350mA US	122350	UNIVERSALE 20	122201	MINIJOLLY	125400-151400	MINIJOLLY DALI	125403-151403
350	12,5	MP 15	122360	UNIVERSALE LC	122203	MINIJOLLY LC	123401-151401			

Article	Code	Rated Voltage	P out W <sup>(1)</sup>	V out	dimension (mm)	Ø mm	Efficiency $\eta$ (100%) <sup>(1)</sup>	ta °C	tc °C	Power Factor $\lambda$	Dimmable
DCC 10W 250mA	122358	110-240	10	43	115x34x19	40	73	-25+50	75	0,6 C	NO
DCC 15W 350mA	122350	110-240	15 (10)	43	115x34x19	40	77	-25+45	75	0,6 C	NO
MP 15	122360	100-240	15 (10)	41,5	115x34x19	40	82	-25+50	75	0,6 C	NO
UNIVERSALE 20	122201	220-240	20	57	110x52x22	55	>88	-25+50	80	0,95	NO
UNIVERSALE 20 LC	122203	220-240	20	55	110x52x22	55	>87	-25+50	75	0,95	NO
MINIJOLLY	125400-151400	110-240	20	43	110x52x22	55	>87	-25+50	80	0,95	1...10V - PUSH
MINIJOLLY LC	123401-151401	110-240	20	43	110x52x22	55	>87	-25+45	75	0,95	1...10V - PUSH
MINIJOLLY DALI	125403-151403	110-240	20	43	110x52x22	55	>87	-25+45	75	0,95	DALI

<sup>(1)</sup> Referred to  $V_{in} = 230\text{ V}$ , 100% load - Riferito a  $V_{in} = 230\text{ V}$ , carico 100%

For additional technical informations please visit our website: [www.tci.it](http://www.tci.it)

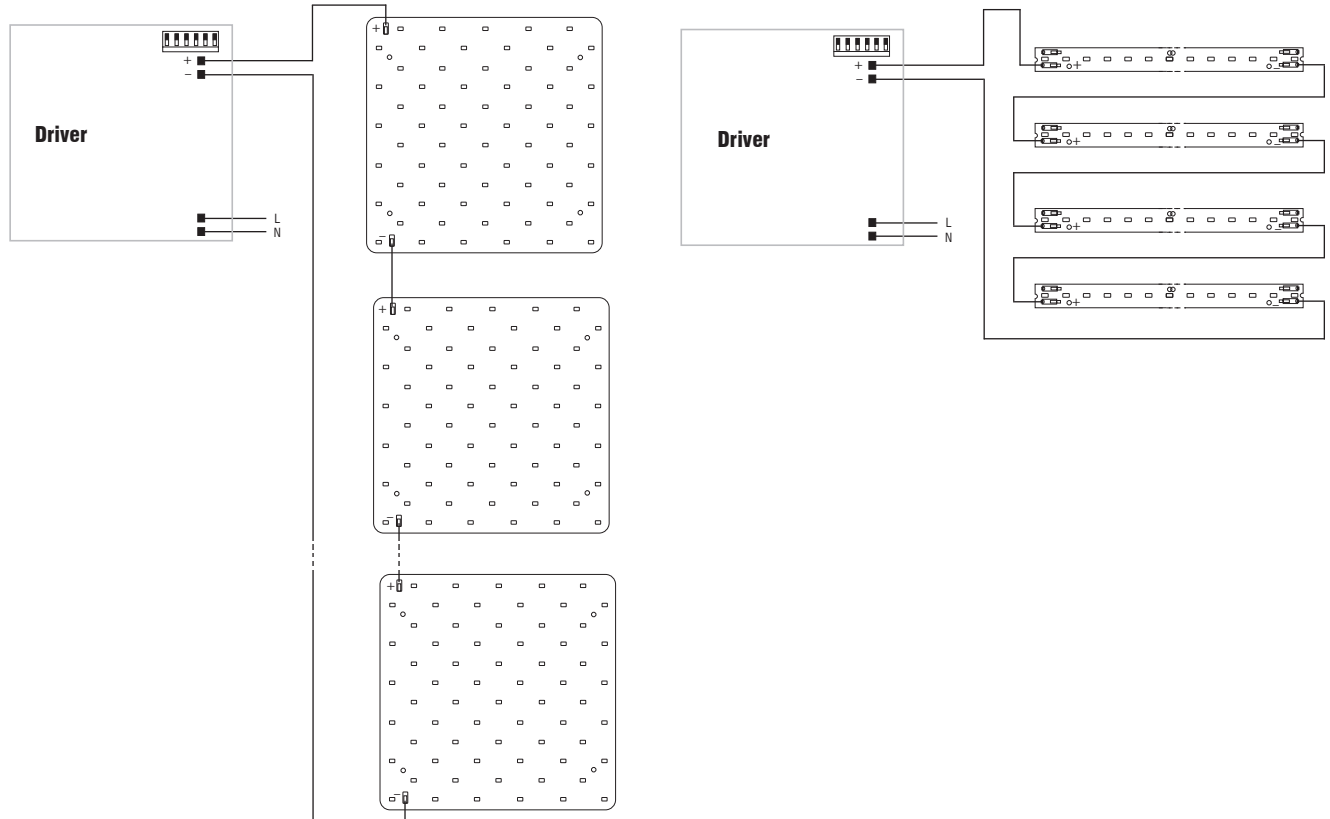


# TECHNICAL INFORMATION

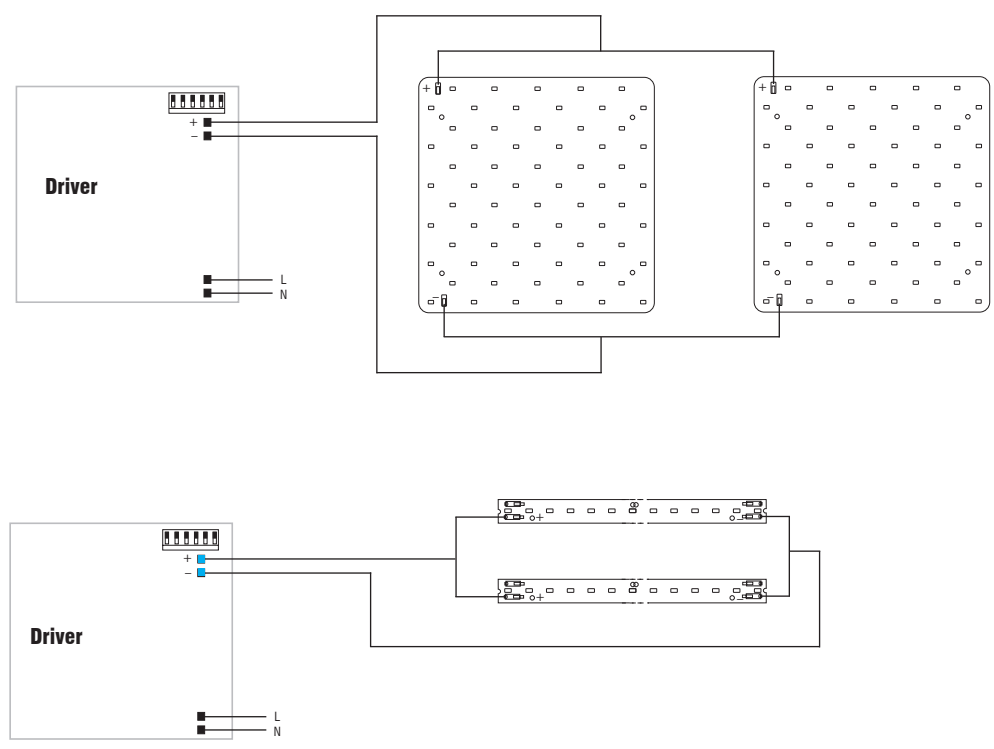
The background of the page is a complex, abstract composition of various shades of blue. It features numerous overlapping, semi-transparent rectangular and polygonal planes that create a sense of depth and perspective. Thin, light-colored lines crisscross the entire surface, some parallel to the edges of the planes and others intersecting them at various angles. The overall effect is that of a technical or architectural drawing, possibly representing a 3D structure or a network of data paths. The lighting is soft and diffused, with some areas appearing slightly brighter than others, contributing to the three-dimensional feel.

Wiring diagrams - Schemi di collegamento

Wiring diagram "series connection"

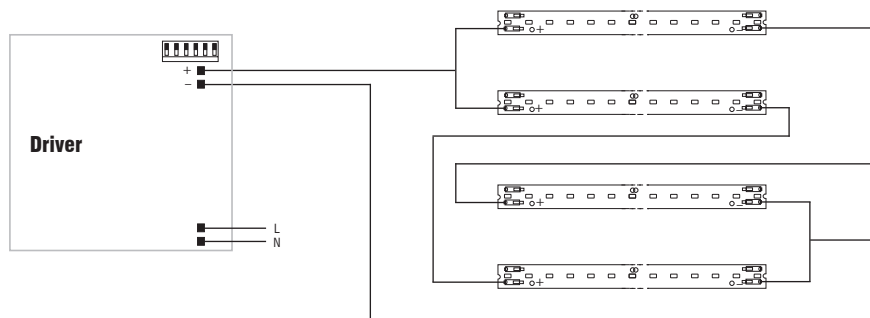
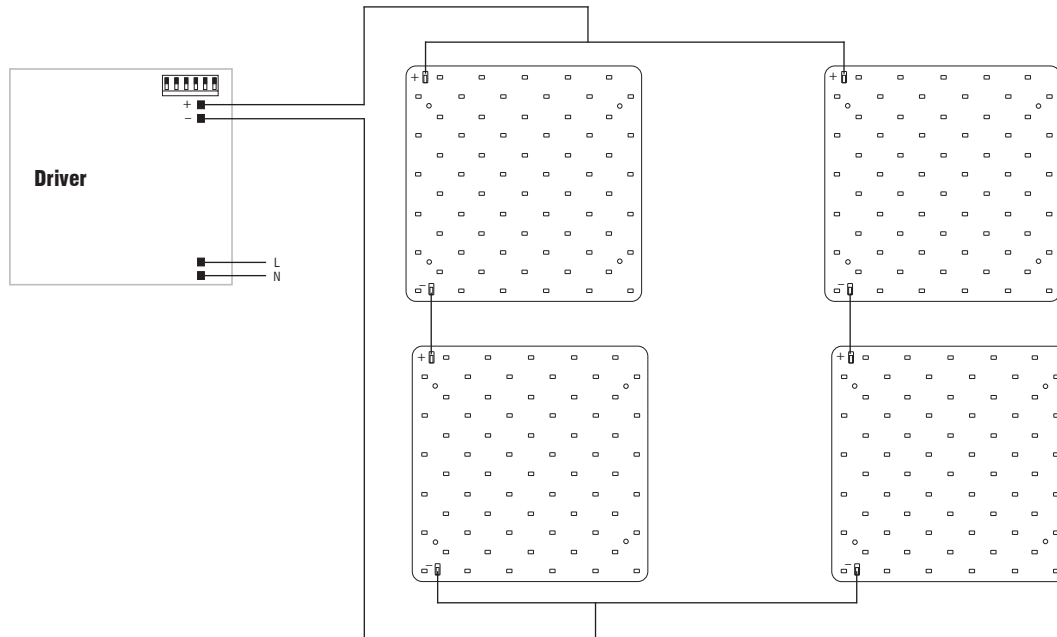


Wiring diagram "parallel connection"

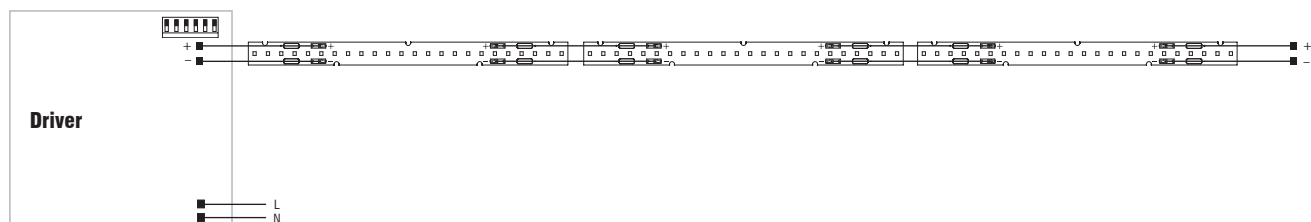


Wiring diagrams - Schemi di collegamento

Wiring diagram "2 series 2 parallel connection"



Wiring diagram "parallel connection"





The continuous research and development of cutting edge solutions leads TCI to provide the ultimate technology to satisfy the current market requests and to foresee the future ones.

RIPPLE FREE is an example of how TCI always aims at providing products of the highest quality.

TCI LED drivers are provided with a sophisticated multistage circuit to supply the LEDs with a perfect current (a line), without any excess (Figure1).

RIPPLE is the width of the LED drivers' output current sinusoidal wave.

When powered by RIPPLE FREE LED DRIVERS the LEDs can reach the maximum performance and light efficiency, with the minimum heat dissipation.

TCI RIPPLE FREE LED DRIVERS ensure the lowest level of light flickering.

In both the cases of bright or low light, it is assumed that the flicker is acceptable because it is largely imperceptible. However, surveys have linked the flicker to health problems. So, even though flicker at these frequencies may not be visible to the naked eye, there is evidence that the human brain can detect light flicker frequencies up to 200Hz (LED drivers output ripple is 100Hz). Potential problems include headaches, eye strain, impaired visual performance or, in extreme cases, epileptic seizure.

It's important to consider the flicker effects during video-cameras recording, where the images are cut with several black lines and it is not possible to properly shoot.

A low current ripple LED driver is 5% more efficient in terms of light output.

In addition to the effects, HIGH RIPPLE current shall negatively affect the LED, the LED driver life time and the efficiency of the system in general.

An example is 700 mA output current average, 40% ripple is 560mA current ripple pk-pk. The output current will swing between 980 mA and 420 mA with the average at 700 mA.

Ripple current can increase the LED driver power dissipation that leads to increased junction temperatures. Figure 2 shows the major impact on the LED lifetime of a higher temperature, because in the "A" area the LED is oversupplied while in the "B" area the LED is undersupplied. The temperature excess of the "A" zone cannot be balanced in the "B" zone and consequently the LED system (LED + heatsink + lamp) has a higher temperature compared to the RIPPLE FREE solution.

The third main consequence of this effect is the lower light efficiency of the LEDs, as LEDs are less efficient when their temperature increases.

TCI RIPPLE FREE LED DRIVERS ensure the minimum temperature of the designed LED system.

It is also important to know that the future development of the LED technology will bring to even more efficient LEDs but the increase of efficiency (the internal die inside the LED reduces its resistance) will make the HIGH RIPPLE LED drivers performance worse.

In Figure 3 "C" and "D" areas show the possible increase of current ripple due to an increase of LEDs efficiency.

*L'orientamento di TCI alla continua ricerca e sviluppo di soluzioni all'avanguardia porta l'azienda ad offrire la migliore tecnologia per soddisfare le richieste di mercato esistenti e anticipare quelle future.*

*Il RIPPLE FREE è un esempio della volontà di TCI di puntare sull'eccellenza qualitativa dei propri prodotti.*

*I driver LED TCI sono forniti di un sofisticato circuito multistadio per alimentare i LED con una corrente perfetta (una linea), senza alcun eccesso (Figura 1).*

*Con RIPPLE si fa riferimento alla dimensione della forma d'onda della corrente d'uscita del driver LED.*

*Quando si alimentano i LED con DRIVER LED RIPPLE FREE è possibile raggiungere le massime prestazioni ed efficienza luminosa, con la minima dissipazione di calore.*

*I DRIVER LED RIPPLE FREE assicurano il minimo livello di oscillazione della luce. Sia nei casi di luce intensa o ridotta, questa oscillazione è per la maggior parte dei casi accettabile perché quasi impercettibile. Tuttavia, ricerche hanno collegato questa oscillazione della luce a problemi di salute. Quindi, nonostante l'oscillazione avvenga a frequenze non percepibili ad occhio nudo, esistono prove che il cervello percepisce oscillazioni della luce fino a 200Hz (nei driver LED con ripple la frequenza è 100Hz). Possibili problemi includono mal di testa, affaticamento della vista, compromissione delle prestazioni visive o, in casi estremi, crisi epilettiche. E' inoltre importante considerare che le oscillazioni della luce provocano effetti durante le riprese video, dove le immagini risultano essere tagliate con numerose linee nere rendendo quindi impossibile la ripresa.*

*In aggiunta ai precedenti effetti, elevate oscillazioni di corrente influenzano negativamente i LED, la vita del DRIVER LED e l'efficienza dell'intero sistema.*

*Un esempio con 700mA di valore medio di corrente, il 40% di ripple è 560mA pk-pk. La corrente di uscita del driver fluttua tra 980mA e 420mA con valore medio di 700mA.*

*Corrente con ripple aumenta la dissipazione del LED che porta ad un incremento della temperatura di giunzione. La Figura 2 illustra il maggior impatto della vita del LED ad alta temperatura, dato che nella zona "A" il LED è sovralimentato mentre nella zona "B" è sottoalimentato. La temperatura in eccesso della zona "A" non viene bilanciata dalla zona "B" e di conseguenza il sistema LED (LED + dissipatore + lampada) hanno temperature superiori comparati ad una soluzione RIPPLE FREE (senza ripple).*

*La terza principale conseguenza di questo effetto è una ridotta efficienza luminosa dei LED, dato che i LED sono meno efficienti quando la temperatura aumenta.*

*I DRIVER LED TCI RIPPLE FREE assicurano la minima temperatura del sistema LED progettato.*

*E' inoltre importante sapere che i future sviluppi delle tecnologia LED porteranno a LED sempre più efficienti ma una migliorata efficienza (viene ridotta la resistenza della die all'interno del LED) provocherà un peggioramento delle performance dei DRIVER LED con ALTO RIPPLE.*

*Le aree "C" e "D" della Figura 3 illustrano il possibile incremento della corrente di ripple dovuto ad un aumento di efficienza dei LED.*

Figure 1 - Figura 1

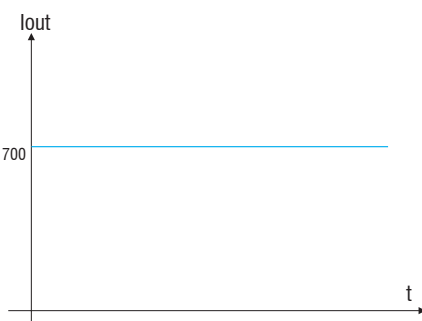


Figure 2 - Figura 2

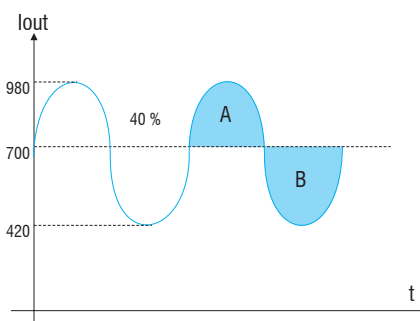
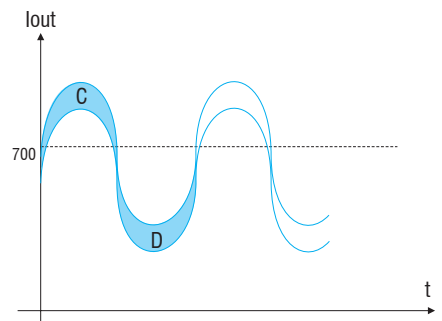


Figure 3 - Figura 3





### Standards compliance

	Products compliant with the following Norms:	Prodotti conformi alle seguenti Normative:
<b>CSA C22.2 No.250</b>	Light Emitting Diode (LED) Equipment for Lighting Applications.	Apparecchiature per diodi led (LED) per utilizzo in applicazioni d'illuminazione.
<b>EN 55015</b>	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.	Limiti e metodi di misura delle caratteristiche di radiodisturbo degli apparecchi d'illuminazione elettrici e degli apparecchi analoghi.
<b>EN 62031</b>	LED modules for general lighting - Safety specifications.	Moduli LED per illuminazione generale - prescrizioni di sicurezza. Illuminazione di emergenza autonoma (dispositivo di tipo 1).
<b>EN 62471</b>	Photobiological safety of lamps and lamp systems.	Sicurezza fotobiologica di lampade e sistemi di lampada.
<b>IEC TR 62778</b>	Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires.	Applicazione della IEC 62471 per la conformità del rischio da luce blu di sorgenti luminose ed apparecchi.
<b>UL 8750</b>	Light emitting diode (LED) equipment for use in lighting products.	Apparecchiature per diodi led (LED) per utilizzo in prodotti d'illuminazione.

**TCI products operate according to the technical specifications we provide. Therefore, it is a Customer's responsibility to check their suitability to each application and their compliance with the relevant Standards/Regulations. TCI R&D is always at disposal to provide Customers with the necessary support during the evaluation process.**

**I prodotti TCI funzionano secondo le specifiche tecniche da noi fornite. Pertanto, è responsabilità del Cliente verificarne l'idoneità rispetto alla singola applicazione, nonché la conformità alle relative norme in vigore. Il Dipartimento R&D di TCI è sempre a disposizione per fornire ai Clienti il supporto necessario durante il processo di valutazione.**

**The manufacturer shall not be liable for any improper use of the product.  
Il costruttore declina ogni responsabilità in caso di uso improprio del prodotto.**

**The products of this catalogue are suitable only for dry location applications.  
I prodotti contenuti in questo catalogo sono adatti solo per applicazioni in ambienti asciutti.**



All products are manufactured in compliance with European Directives (2014/35/EU, 2014/30/EU, 2011/65/EU, 2009/125/EC) as reported in the EU conformity declaration.

Tutti i prodotti sono costruiti nel rispetto delle Normative Europee (2014/35/UE, 2014/30/UE, 2011/65/UE, 2009/125/CE) come riportato nella dichiarazione di conformità UE.



All products are manufactured in compliance with European Directives (2011/65/EU) as reported in the EU declaration.

Tutti i prodotti sono costruiti nel rispetto delle Normative Europee (2011/65/UE) come riportato nella dichiarazione UE.

#### Dissipation, assembly

A dissipation of the LED module might be required to guarantee the stated datas of brightness and lifetime. Please verify that the modules Tc does not exceed the maximum values as indicated in the table. It is recommended the use of all the holes for the fixing of the LED module or the use of thermoconductive pastes or adhesives. To avoid any damages to the LED module please use only rounded head screws and an additional plastic flat washer. If the LED modules are wired in parallel and a module fails, all the current flowing through the other LED module increases. This may reduce the lifetime of the LED module.

#### Handling and Cleaning

Don't give any shock to the LED modules nor store them in a dusty place. Avoid any contacts with any kind of fluid such as oil or organic solvents. It is recommended the use of IPA (isopropyl alcohol) as solvent to clean the LED modules. Before cleaning, a pre-test should be done to verify any possible damages to the LED module.

#### Static Electricity

Static electricity or surge voltage can damage the LED modules. Always wear anti ESD wrist band or anti ESD gloves when handling the LED modules.

#### Lifetime

The brightness value of a LED module according to 60.000/80.000 working hours is indicated by letter L. Letter B indicates the number of LEDs that keep the L value also after 60.000/80.000 working hours. TCI LED modules are guaranteed L80B20. In other words the 80% of the LEDs will have 80% or higher rendering after 60.000/80.000 working hours.

#### Dissipazione e assemblaggio

Per garantire i dati di luminosità e durata indicati può essere necessaria una dissipazione del modulo LED. Verificare che la Tc del modulo non superi i valori massimi indicati nella tabella. Si consiglia l'utilizzo di tutti i fori previsti per il fissaggio del modulo LED o l'utilizzo di pasta o adesivi termoconduttivi. Per non danneggiare i moduli LED utilizzare soltanto viti a testa arrotondata e rondelle plastiche piatte. Se i moduli LED sono collegati in parallelo e un modulo si danneggia, tutta la corrente che passa nell'altro modulo LED aumenta. Questo potrebbe ridurre il lifetime del modulo LED.

#### Uso e pulizia

Non procurare shock ai moduli LED e conservarli in luogo non polveroso. Evitare il contatto con qualsiasi tipo di fluido, come olio o solventi organici. Si raccomanda l'uso di IPA (alcol isopropilico) quale solvente per la pulizia dei moduli LED. Prima di procedere con la pulizia, dovrebbe essere effettuato un pre-test per accertare potenziali danni al modulo LED.

#### Elettricità statica

L'elettricità statica o le tensioni di rete possono danneggiare i moduli LED. Indossare un braccialetto ESD o guanti ESD durante l'uso dei moduli LED.

#### Lifetime

Il valore di luminosità di un modulo LED in base a 60.000/80.000 ore di funzionamento è indicato dalla lettera L. La lettera B indica invece il numero dei LED che rispetteranno il valore L dopo 60.000/80.000 ore di funzionamento. I moduli LED TCI sono garantiti L80B20, che significa che l'80% dei LED avrà una resa pari o superiore all'80% dopo 60.000/80.000 ore di utilizzo.

TCI LED modules are not equipped against mains spikes, overloads and short circuits. The use is guaranteed in combination with TCI drivers.

I moduli LED TCI non sono protetti contro extra tensioni, sovraccarichi e cortocircuiti. L'utilizzo è garantito in combinazione con driver TCI.

TCI guarantees its products for **36 months** from the manufacture date stated on the product label. This warranty covers all manufacturing defects, if any. This warranty does not cover any defects and/or damages due to improper use or use not compliant with the installation and operating instructions. If the products are opened or tampered with, this warranty will be wholly invalid.

**Note: in compliance with the regulations in force, TCI retains the right to make technical an/or dimensional changes to improve the product performance and features without any prior notice. All dimensions are in mm, unless otherwise stated.**

In addition to the above 36 months standard warranty, TCI provides its customers with an **extended warranty**, according to the following conditions:



## 10 YEARS WARRANTY, 5% failure rate

The above condition is valid for max. 13h/day operation, according to all technical information and lifetime stated in the product datasheet.



## 7 YEARS WARRANTY, 3% failure rate

The above condition is valid for max. 19h/day operation, according to all technical information and lifetime stated in the product datasheet.

Legislative warranty claims are not affected by the above terms and are to be considered independently valid.

Moreover, under the conditions detailed in TCI catalogue, all our products do comply with the article 153 of the Treaty establishing the European Community as far as it concerns the **DECENNIAL LIABILITY OF THE PRODUCER**.



List of the **National Laws** implementing the **Council Directive 85/374/CEE** concerning the **Producer's Liability**:

<b>Austria</b>	Bundesgesetz, mit dem das Produkthaftungsgesetz BGBl. 99/1988 geändert wird. Bundesgesetzblatt für die Republik Österreich, Nr. 95/1993
<b>Belgium</b>	Law 25.02.1991
<b>Bulgaria</b>	Law 09.12.2005
<b>Croatia</b>	ZAKON O IZMJENAMA I DOPUNAMA ZAKONA O OBVEZNIM ODNOSIMA Narodne Novine; Number: 41/08; Publication date: 2008-04-09
<b>Cyprus</b>	Ο περί Ελαττωματικών Προϊόντων (Αστική Ευθύνη) Νόμος του 1999 (Τροποποιητικός)
<b>Czech Republic</b>	Law 89/2012
<b>Danemark</b>	Law nr. 371 of 07/06/1989
<b>Estonia</b>	Võlaõigusseadus, published RT I 2004, 37, 255
<b>Finland</b>	uotevastuulaki (694/90) 17/08/1990, muutokset (99/93) 08/01/1993 ja (879/93) 22/10/1993
<b>France</b>	Loi n° 98-389 de 19/5/1998
<b>Germany</b>	Produkthaftungsgesetz vom 15/12/1989
<b>Greece</b>	Law nr. 2000/1991 of 24/12/1991
<b>Hungary</b>	2002. évi XXXVI. törvénya Magyar Köztársaság Polgári Törvénykönyvéről szóló 1959. évi IV. törvény, valamint egyes törvények fogyasztóvédelemmel összefüggő jogharmonizációs célú módosításáról
<b>Ireland</b>	Directive 85/374/CEE in force
<b>Italy</b>	Decreto legislativo 6/9/2005, n° 206 Codice del consumo
<b>Latvia</b>	Grozījumi likumā "Par atbildību par precēs un pakalpojuma trūkumiem" 2004
<b>Lithuania</b>	Lietuvos Respublikos civilinio kodekso patvirtinimo, įsigaliojimo ir įgyvendinimo įstatymas Nr. VIII - 1864
<b>Luxemburg</b>	Directive 85/374/CEE in force
<b>Malta</b>	Directive 85/374/CEE in force
<b>The Netherlands</b>	Wet van 13/09/1990 tot aanpassing van het Burgerlijk Wetboek, Staatsblad nummer 487 van 1990
<b>Poland</b>	Ustawa z 23 kwietnia 1964 Kodeks Cywilny
<b>Portugal</b>	Decreto-Ley n. 383/89 de 06/11/1989. Transpõe para a ordem jurídica interna a Directiva n. 85/374/CEE, em matéria de responsabilidade decorrente de produtos defeituosos.
<b>Romania</b>	Lege privind combaterea practicilor incorecte ale comercianților în relația cu consumatorii și armonizarea reglementărilor cu legislația europeană privind protecția consumatorilor.
<b>Slovakia</b>	Directive 85/374/CEE in force
<b>Slovenia</b>	Directive 85/374/CEE in force
<b>Spain</b>	REAL DECRETO LEGISLATIVO 1/2007 de 16 novembre 2007
<b>Sweden</b>	Produktansvarslag, Svensk författningsamling (SFS) 1992:18
<b>Switzerland</b>	Legge federale sulla responsabilità per danno da prodotti (LRDP) del 18 giugno 1993
<b>United Kingdom</b>	The Consumer Protection Act 1987

**Important notice:** presuming that the information provided are accurate and reliable, TCI assumes no responsibility for any consequences of the use of such information; similarly, TCI is not liable for any infringement of existing or future patents or other rights of third parties which may result from the use or the interconnection of the circuits and of the items described herein. No license is granted by implication or otherwise in connection with patents, even pending, or patent rights belonging to TCI.

TCI garantisce i propri prodotti per **36** mesi dalla data di fabbricazione indicata sui prodotti stessi.

La garanzia copre tutti gli eventuali difetti di fabbricazione. La garanzia non copre eventuali difetti e/o danni causati da un utilizzo errato e non conforme alle istruzioni di installazione ed impiego. La garanzia decade totalmente se i prodotti vengono aperti o manomessi.

**Nota: TCI si riserva la possibilità, nel rispetto delle norme in vigore, di apportare senza preavviso modifiche tecniche e dimensionali per migliorare le caratteristiche e le prestazioni dei prodotti. Tutte le misure sono espresse in mm tranne diversa indicazione.**

In aggiunta alla garanzia standard di 36 mesi, TCI fornisce una **garanzia estesa** secondo le seguenti condizioni:



**10 ANNI DI GARANZIA**, 5% failure rate.

La condizione sopra indicata è valida per un funzionamento massimo di 13h/giorno, rispettando tutte le informazioni tecniche e il lifetime indicati nella scheda tecnica del prodotto.



**7 ANNI DI GARANZIA**, 3% failure rate.

La condizione sopra indicata è valida per un funzionamento massimo di 19h/giorno, rispettando tutte le informazioni tecniche e il lifetime indicati nella scheda tecnica del prodotto.

I reclami secondo la garanzia legislativa non sono influenzati dai termini di cui sopra e sono da considerarsi indipendentemente validi.

Inoltre, in base alle condizioni riportate nel catalogo TCI, tutti i nostri prodotti sono conformi all'Articolo 153 del Trattato della Comunità Europea per quanto riguarda la **RESPONSABILITÀ DECENNALE DEL PRODUTTORE**.



Lista delle **Leggi Nazionali** che implementano la **Direttiva del Consiglio 85/374/CEE** sulla **Responsabilità del Produttore**:

<b>Austria</b>	Bundesgesetz, mit dem das Produkthaftungsgesetz BGBl. 99/1988 geändert wird. Bundesgesetzblatt für die Republik Österreich, Nr. 95/1993
<b>Belgio</b>	Law 25.02.1991
<b>Bulgaria</b>	Law 09.12.2005
<b>Croazia</b>	ZAKON O IZMJENAMA I DOPUNAMA ZAKONA O OBVEZNIM ODNOSIMA Narodne Novine; Number: 41/08; Publication date: 2008-04-09
<b>Cipro</b>	Ο περί Ελαττωματικών Προϊόντων (Αστική Ευθύνη) Νόμος του 1999 (Τροποποιητικός)
<b>Repubblica Ceca</b>	Law 89/2012
<b>Danimarca</b>	Law nr. 371 of 07/06/1989
<b>Estonia</b>	Võlaõigusseadus, published RT I 2004, 37, 255
<b>Finlandia</b>	uotevastuulaki (694/90) 17/08/1990, muutokset (99/93) 08/01/1993 ja (879/93) 22/10/1993
<b>Francia</b>	Loi n° 98-389 de 19/5/1998
<b>Germania</b>	Produkthaftungsgesetz vom 15/12/1989
<b>Grecia</b>	Law nr. 2000/1991 of 24/12/1991
<b>Ungheria</b>	2002. évi XXXVI. törvénya Magyar Köztársaság Polgári Törvénykönyvéről szóló 1959. évi IV. törvény, valamint egyes törvények fogyasztóvédelemmel összefüggő jogharmonizációs célú módosításáról
<b>Irlanda</b>	Directive 85/374/CEE in force
<b>Italia</b>	Decreto legislativo 6/9/2005, n° 206 Codice del consumo
<b>Lettonia</b>	Grozījumi likumā "Par atbildību par precēs un pakalpojuma trūkumiem" 2004
<b>Lituania</b>	Lietuvos Respublikos civilinio kodekso patvirtinimo, įsigaliojimo ir įgyvendinimo įstatymas Nr. VIII - 1864
<b>Lussemburgo</b>	Directive 85/374/CEE in force
<b>Malta</b>	Directive 85/374/CEE in force
<b>Paesi Bassi</b>	Wet van 13/09/1990 tot aanpassing van het Burgerlijk Wetboek, Staatsblad nummer 487 van 1990
<b>Polonia</b>	Ustawa z 23 kwietnia 1964 Kodeks Cywilny
<b>Portogallo</b>	Decreto-Ley n. 383/89 de 06/11/1989. Transpõe para a ordem jurídica interna a Directiva n. 85/374/CEE, em matéria de responsabilidade decorrente de produtos defeituosos.
<b>Romania</b>	Lege privind combaterea practicilor incorecte ale comercianților în relația cu consumatorii și armonizarea reglementărilor cu legislația europeană privind protecția consumatorilor.
<b>Slovacchia</b>	Directive 85/374/CEE in force
<b>Slovenia</b>	Directive 85/374/CEE in force
<b>Spagna</b>	REAL DECRETO LEGISLATIVO 1/2007 de 16 novembre 2007
<b>Svezia</b>	Produktansvarslag, Svensk författningsamling (SFS) 1992:18
<b>Svizzera</b>	Legge federale sulla responsabilità per danno da prodotti (LRDP) del 18 giugno 1993
<b>Regno Unito</b>	The Consumer Protection Act 1987

**Avviso importante:** presumendo che le informazioni fornite siano accurate e affidabili, TCI non si assume alcuna responsabilità per ogni conseguenza dell'uso di tali informazioni; analogamente, TCI non è responsabile per qualsiasi violazione di brevetti esistenti o futuri, o altri diritti di terze parti che possano risultare dall'uso o dall'interconnessione dei circuiti e degli articoli qui descritti. Nessuna licenza viene concessa, nemmeno implicitamente, né in qualsiasi modo in relazione a brevetti, anche pendenti, o a diritti di brevetto o a qualsiasi altro diritto appartenente a TCI.









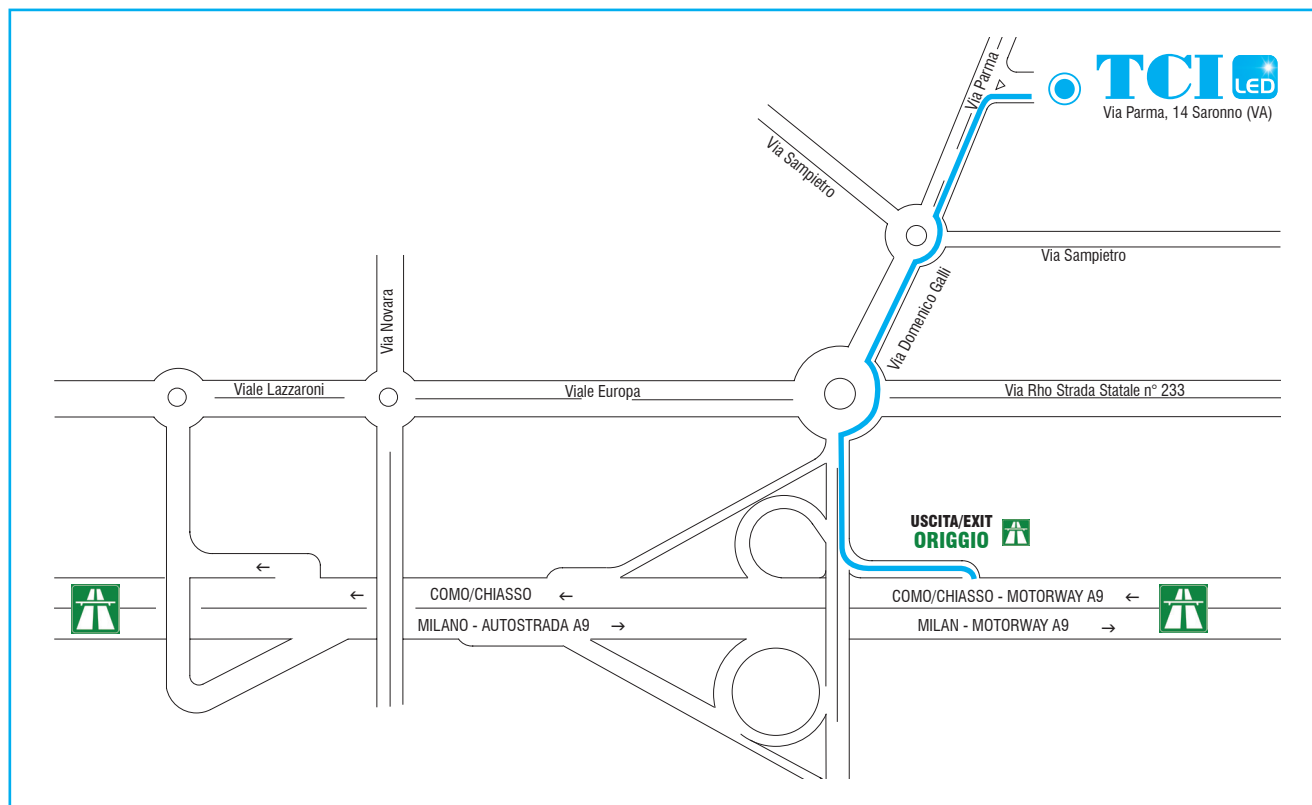




TCI



## Come raggiungerci



### Coming from the A9 motorway – Autostrada dei Laghi

Take the ORIGGIO exit, go straight on and after 2 roundabouts drive further 100 m.

On Your right You will find TCI.

### Our address is:

TCI Srl  
Via Parma, 14  
21047 Saronno (VA)  
Italy

### Arrivando dall'Autostrada dei Laghi A9

Prendere l'uscita ORIGGIO, proseguire dritto superando due rotonde.

Troverete TCI a 100 m sulla destra.

### Il nostro indirizzo è:

TCI Srl  
Via Parma, 14  
21047 Saronno (VA)  
Italia



Printed on recycled paper.  
Stampato su carta riciclata.



Go directly to our webpage.  
Vai direttamente alla nostra pagina web.



### TCI LED

Our APP is available on Apple Store and Google Play Store for iOS and Android devices.

La nostra APP è disponibile per smartphone e tablet su Apple Store e Google Play Store per dispositivi iOS e Android.



**Wireless Systems**

**Sistemi Wireless**

**LED drivers**

**Alimentatori LED**

**LED modules**

**Moduli LED**

**COB**

**Chip On Board**

**Lighting control**

**Controllo della luce**

**Emergency KIT**

**KIT emergenza**

**Electronic & HID Ballasts**

**Ballast elettronici & HID**

**Electronic & Toroidal  
transformers**

**Trasformatori  
elettronici & toroidali**



PRODUCER'S LIABILITY

**10 YEARS  
WARRANTY**

**TCI LED**  
professional led applications

21047 Saronno (VA) Italy - Via Parma, 14 - Tel. +39.02964161

[www.tci.it](http://www.tci.it) [tci@tci.it](mailto:tci@tci.it) [facebook.com/tcisrl](https://www.facebook.com/tcisrl)