# SM280/55R33 - SM280/55R33L

## REGULAR series - Rectangular modules

Made in Italy

REGULAR

UP TO 179 lm/W

L80 B20 >60.000 h @ tc=85 °C

**SM280/55R33**



**SM280/55R33L**



RESIDENTIAL OFFICE RETAIL INDUSTRY

constant CURRENT ESD

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| SM280/55R33 | 128023/830S | 3000 | 250 | 1310 | 1220 | 7,9 | 165 | 154 | 31,6 | 34,3 |
| | | | 350 | 1780 | 1660 | 11,5 | 155 | 145 | | |
| | | | 500 | 2420 | 2260 | 17,0 | 142 | 133 | | |
| | 128023/840S | 4000 | 250 | 1380 | 1290 | 7,9 | 174 | 162 | | |
| | | | 350 | 1880 | 1750 | 11,5 | 164 | 152 | | |
| | | | 500 | 2550 | 2380 | 17,0 | 150 | 140 | | |
| | 128023/850S | 5000 | 250 | 1420 | 1330 | 7,9 | 179 | 167 | | |
| | | | 350 | 1920 | 1790 | 11,5 | 167 | 156 | | |
| | | | 500 | 2620 | 2440 | 17,0 | 154 | 144 | | |
| SM280/55R33L | 128240/830S | 3000 | 250 | 1310 | 1220 | 7,9 | 165 | 154 | 31,6 | 34,3 |
| | | | 350 | 1780 | 1660 | 11,5 | 155 | 145 | | |
| | | | 500 | 2420 | 2260 | 17,0 | 142 | 133 | | |
| | 128240/840S | 4000 | 250 | 1380 | 1290 | 7,9 | 174 | 162 | | |
| | | | 350 | 1880 | 1750 | 11,5 | 164 | 152 | | |
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| | | | 500 | 2620 | 2440 | 17,0 | 154 | 144 | | |

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

**CRI**
>80
>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 ° (without lens)

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

**Module temperature tc:** 85 °C

**Absolute maximum operating current:**
540 mA

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

### 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: distance between the voltage area and the board edge ≥ 2,7 mm.
- Extended lifetime > 60.000 h.
- High efficiency: up to 179 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: distanza tra parte in tensione e bordo scheda ≥ 2,7 mm.
- Lifetime esteso > 60.000 h.
- Elevata efficienza: fino a 179 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.

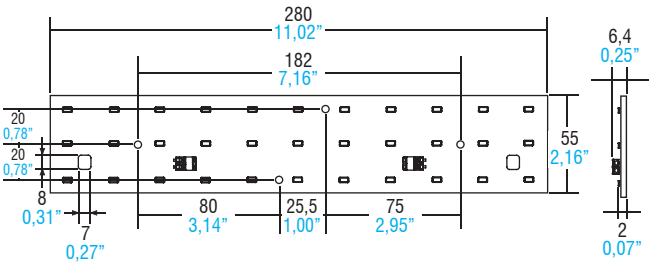
7 YEARS WARRANTY 3% FAILURE RATE
10 YEARS WARRANTY 5% FAILURE RATE
PRODUCER'S LIABILITY
COVERED WITH ELECTRONIC WARRANTY 10 YEARS ACCORDING TO TCI CATALOGUE CONDITIONS

# SM280/55R33 - SM280/55R33L

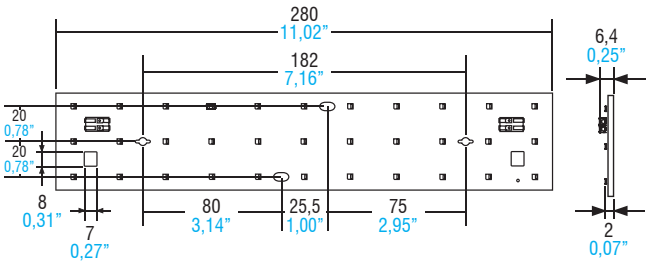
**REGULAR series - Rectangular modules**

## Technical features - Caratteristiche tecniche

**SM280/55R33** (Weight/Peso 1,83 oz. / gr. 52 - Pcs/Pezzi 20)

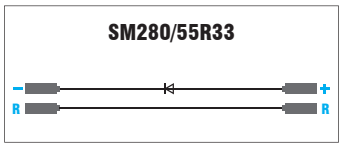


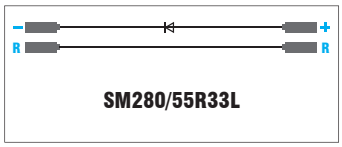

**SM280/55R33L** (Weight/Peso 1,83 oz. / gr. 52 - Pcs/Pezzi 20)

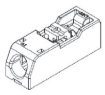



Zhaga compatible holes

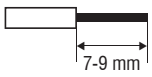
### Wiring - Cablaggio



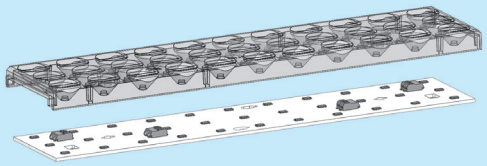
Insert/remove wires by slightly pressing on push-button.
Inserire/rimuovere i cavi premendo leggermente sul pulsante.




| | |
|---|---|
| **Solid conductor - Conduttore rigido** | **0,2...0,75 mm² / 24...18 AWG** |
| **Fine-stranded conductor - Conduttore flessibile** | **0,2...0,75 mm² / 24...18 AWG** |
| **Fine-stranded conductor with ferrule with plastic collar - Conduttore flessibile con boccola con isolamento in plastica** | **0,25...0,34 mm²** |

## Accessories - Accessori

**LINEA FLAT 33LED / LINEA BOXED 33LED**
**LINEA BOXED 33LED IP65**
**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 | 468780144 | 468780145 | 468780146 |

| CAPS FOR LINEA BOXED 33LED LENSES | Cod. 488787435 |
|---|---|

| 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 | 468780338 |

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

**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 (alcool 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 equiped 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.

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