

Rectangular LED modules 510x255mm

Product description

- Long life-time
- Built-in, constant current LED module
- Re-workable push-in terminals enabling easy connection
- Compliance and approval: CE
- Available CCT from 2200K to 6500K and CRI 80



RecLED CRI 80 Optimum G1

Product name	Ordering code	Colour temperature [K]	Current nominal If nom [mA]	Luminous flux* ϕ [lm]	Voltage* Vf [V]	Power* P [W]	Efficacy* [lm/W]	Current maximum If max [mA]
RecLED 510x255mm 2500lm 830 42V Opt G1	1010 127 07846	3000	350	2290	37	13	175	1280
RecLED 510x255mm 2500lm 840 42V Opt G1	1010 127 07946	4000	350	2424	37	13	185	1280

*At nominal current and T_p
Tolerance range for optical and electrical $\pm 10\%$

Temperature & humidity

Specification item	Unit	Value
T _p	[°C]	45
T _p rated	[°C]	65
T _c	[°C]	85
Relative humidity (non-condensing)	[%]	5 ... 85
Storage ambient temperature	[°C]	-25 ... +85
Storage relative humidity (non-condensing)	[%]	5 ... 85

T_p - Temperature related to the performance parameters of the LED modules
T_p rated - Maximum operating temperature to which the rated performance characteristics are declared
T_c - Highest permissible value for safe operation

Technical data

Specification item	Unit	Value
Classification acc. to IEC 62031		built-in
Energy Efficiency Class		C
Working voltage	[Vdc]	350
Beam angle	[deg]	120
Initial color consistency	[SDCM]	3
Initial color coordinates		Acc. to CIE 1931
Photobiological safety		RG1 unlimited

Certificates & standards

Specification item	Compliant
ENEC	No
CE	Yes
RoHS	Yes
REACH	Yes
Zhaga	No
IP rating	No IP rating

Rectangular LED modules 510x255mm

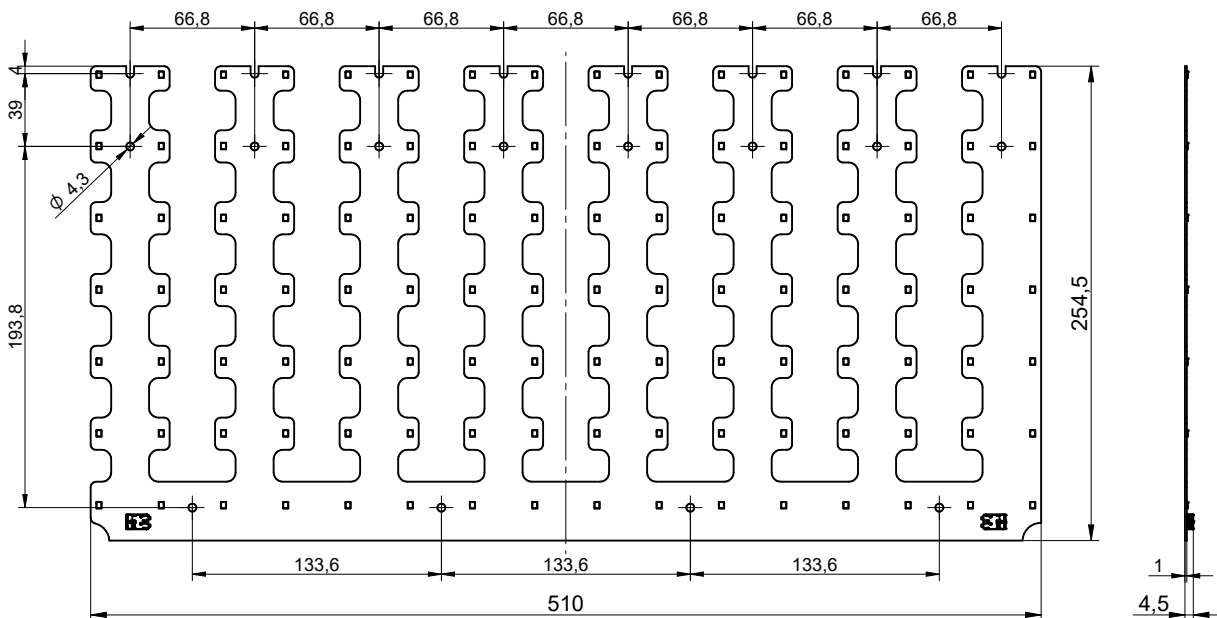
Lumen maintenance

RecLED CRI 80

Forward current	Tp temp.	L70 [h]		L80 [h]		L90 [h]	
		B50	B10	B50	B10	B50	B10
If nom	45°C	>72 000	>72 000	>72 000	>72 000	39 000	36 000
	65°C	>72 000	>72 000	65 000	61 000	31 000	28 000
	85°C	>72 000	>72 000	57 000	53 000	26 000	24 000
If max	45°C	>72 000	>72 000	>72 000	>72 000	69 000	35 000
	65°C	>72 000	>72 000	60 000	58 000	29 000	28 000
	85°C	>72 000	>72 000	52 000	48 000	25 000	23 000

reported data based on LM80 LED data 12000h

Dimensions



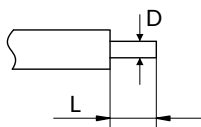
Mounting

LED Modules cannot be exposed to tensile or compressive stresses. For this purpose it is necessary that the modules are assembled to a flat surface by only rounded head screws. Additionally plastic flat washer should be used to ensure creepage distance between screw's head and surface of the pcb. Max. torque for fixing: 0,5Nm.

LED modules are sensitive to electrostatic discharge (ESD). Follow safety regulations according to IEC 61340-5-1.

Wiring

Wire cross section and strip length:



D - wire cross section (solid and flexible wires)	Min	Max
	0.2mm ²	0.75mm ²
	AWG 24	AWG 18

L - strip length	Min	Max
	8mm	9mm

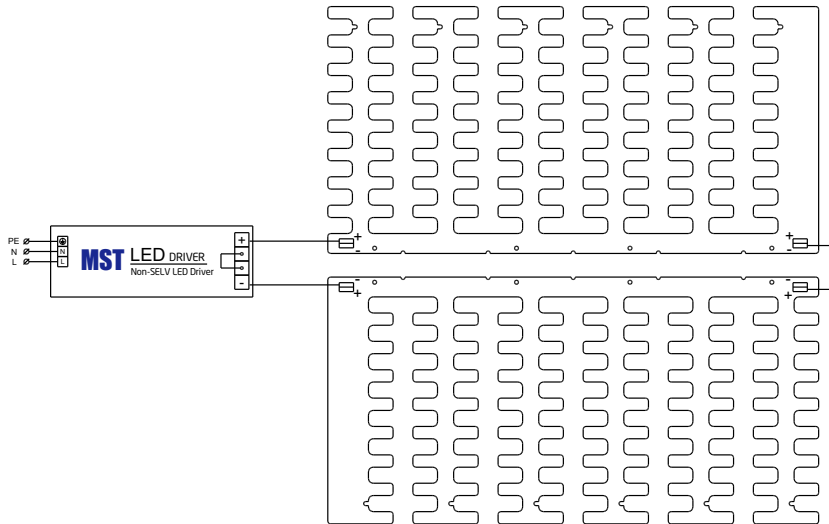
Opening for the release of wires from the top with release pin Electroterminal art. 881 167 884:



Rectangular LED modules 510x255mm

Connections

Wiring for series connection system



Ordering codes

Product name	Ordering code	Pieces per box	Pieces per pallet	Box dimensions [mm]
RecLED 510x255mm 2500lm 830 42V Opt G1	1010 127 07846	11	440	548 x 283 x 58
RecLED 510x255mm 2500lm 840 42V Opt G1	1010 127 07946	11	440	548 x 283 x 58