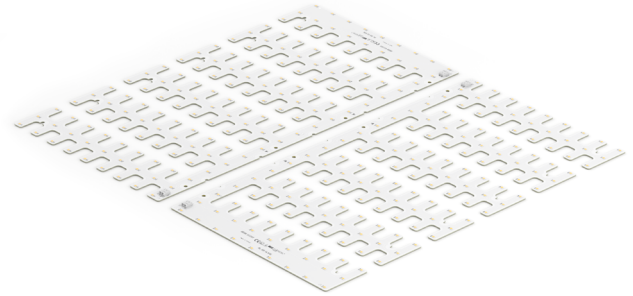


Rectangular LED modules 519x261mm SELV

Product description

- Long life-time
- Built-in, constant current LED module
- Re-workable push-in terminals enabling easy connection
- Compliance and approval: CE, ENEC
- Available CCT from 2700K to 6500K and CRI 80, 90



RecLED CRI 80 Optimum G3.1

Product name	Ordering code	Colour temperature [K]	Current nominal If nom [mA]	Luminous flux ¹ φ [lm]	Useful luminous flux ² [lm]	Voltage ¹ Vf [V]	Power ¹ P [W]	Efficacy ¹ [lm/W]	Current minimum If min ³ [mA]	Current maximum If max [mA]	Energy Efficiency Class
RecLED 519x261mm 2500lm 830 48V Opt G3.1	1010 127 30346	3000	300	2446	2536	43	13	191	100	1500	C
RecLED 519x261mm 2500lm 840 48V Opt G3.1	1010 127 30446	4000	300	2553	2646	43	13	199	100	1500	B

RecLED CRI 90 Optimum G3.1

Product name	Ordering code	Colour temperature [K]	Current nominal If nom [mA]	Luminous flux ¹ φ [lm]	Useful luminous flux ² [lm]	Voltage ¹ Vf [V]	Power ¹ P [W]	Efficacy ¹ [lm/W]	Current minimum If min ³ [mA]	Current maximum If max [mA]	Energy Efficiency Class
RecLED 519x261mm 2500lm 830 48V Opt G3.1	1010 127 30546	3000	350	2439	2529	43	15	162	100	1500	D
RecLED 519x261mm 2500lm 940 48V Opt G3.1	1010 127 30646	4000	350	2605	2700	43	15	173	100	1500	C

RecLED CRI 80 Optimum G1

Product name	Ordering code	Colour temperature [K]	Current nominal If nom [mA]	Luminous flux ¹ φ [lm]	Useful luminous flux ² [lm]	Voltage ¹ Vf [V]	Power ¹ P [W]	Efficacy ¹ [lm/W]	Current minimum If min ³ [mA]	Current maximum If max [mA]	Energy Efficiency Class
RecLED 519x261mm 2500lm 830 48V Opt G1	1010 127 02446	3000	310	2455	2540	43	13	184	100	1500	C
RecLED 519x261mm 2500lm 840 48V Opt G1	1010 127 02546	4000	310	2579	2668	43	13	193	100	1500	C

¹At nominal current and T_p

²At nominal current and 25°C

³It is recommended not to operate below minimum current in order to avoid un-even brightness

Tolerance range for optical and electrical ±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

Rectangular LED modules 519x261mm SELV

Technical data

Specification item	Unit	Value
Classification acc. to IEC 62031		built-in
Working voltage	[Vdc]	60
Beam angle	[deg]	120
Initial color consistency	[SDCM]	3
Photobiological safety		RG1 unlimited

Color coordinates

According to CIE 1931

Specification item	CIE _x	CIE _y
2700K	0.4578	0.4101
3000K	0.4338	0.4030
4000K	0.3818	0.3797
6500K	0.3123	0.3282

Certificates & standards

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

Lumen maintenance

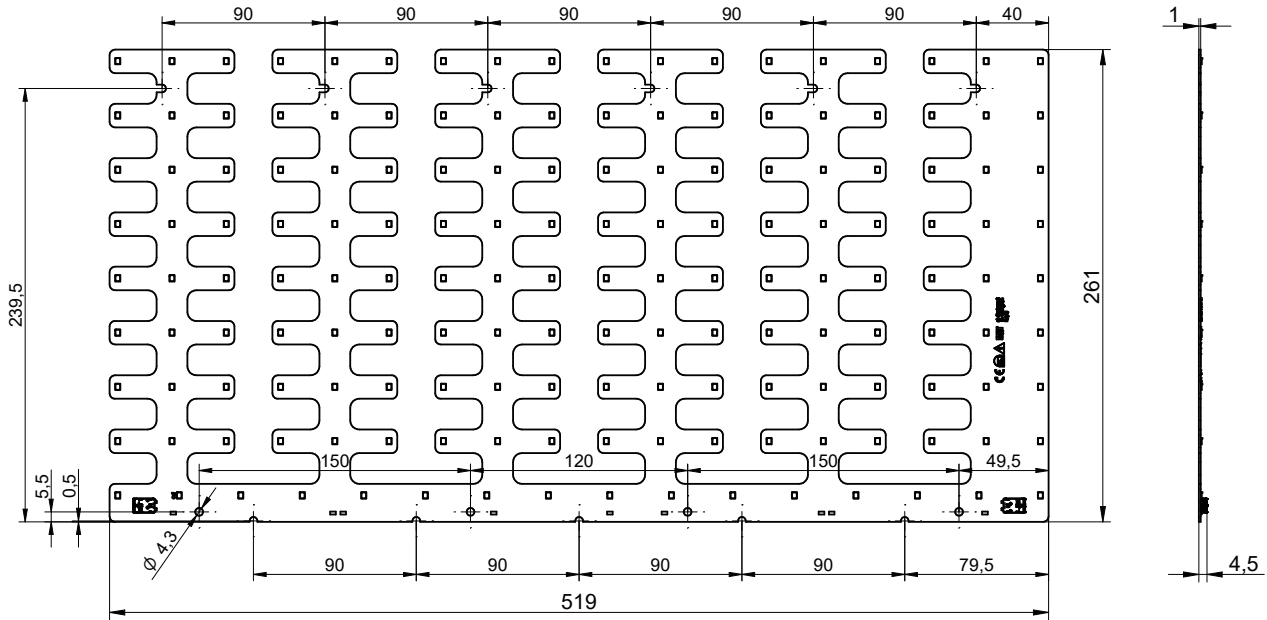
RecLED CRI 80

Forward current	Tp temp.	L70 [h]		L80 [h]		L90 [h]	
		B50	B10	B50	B10	B50	B10
If nom	45°C	>100 000	>100 000	>100 000	>100 000	81 000	71 000
	55°C	>100 000	>100 000	>100 000	>100 000	81 000	71 000
	65°C	>100 000	>100 000	>100 000	>100 000	80 000	71 000
	75°C	>100 000	>100 000	>100 000	>100 000	79 000	70 000
	85°C	>100 000	>100 000	>100 000	>100 000	78 000	70 000
If max	45°C	>100 000	>100 000	>100 000	>100 000	51 000	39 000
	55°C	>100 000	>100 000	>100 000	>100 000	51 000	39 000
	65°C	>100 000	>100 000	>100 000	>100 000	48 000	37 000
	75°C	>100 000	>100 000	>100 000	>100 000	45 000	35 000
	85°C	>100 000	>100 000	>100 000	69 000	43 000	34 000

calculated data based on LM80 LED data (@65mA 17000h / @160mA & 200mA 12000h)

Rectangular LED modules 519x261mm SELV

Dimensions



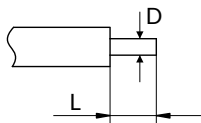
Mounting

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

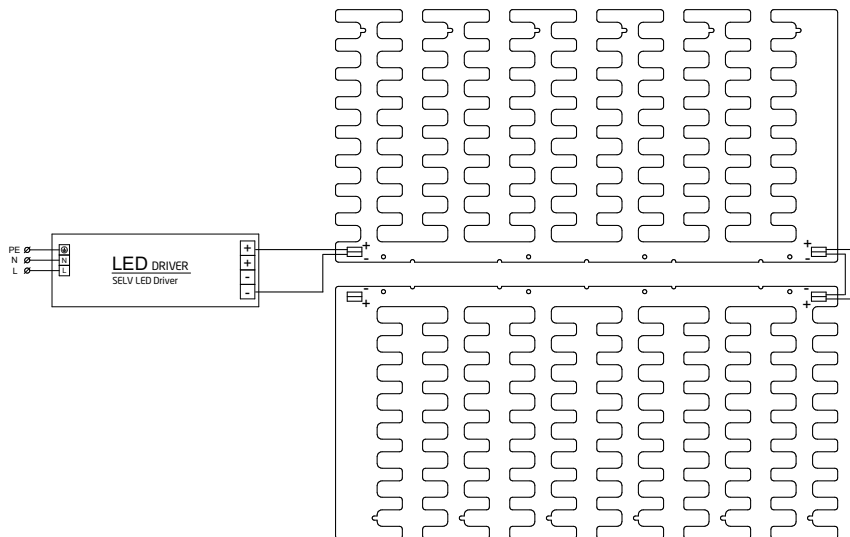
Opening for the release of wires from the top with release pin Electroterminal art. 881 167 884:



Rectangular LED modules 519x261mm SELV

Connections

Wiring for parallel connection system



To prevent irregular luminous intensity in parallel connection use only LED modules from the same V-code group.
V-code (e.g. "A", "B", "AB") is printed on the LED module and box label. Naming is not adequate to efficacy or luminous flux.

Energy Label / EPREL database

To obtain Energy Label for this product visit <https://eprel.ec.europa.eu/> and enter model identifier

Model identifier consists of 10 digits XXXX XXX XXX. It is printed directly on the LED module or on product label. This is the number you can see in EPREL database.

Ordering code consist of 12 digits XXXX XXX XXX46. Additional last two digits means packaging of the product.

Ordering codes

Product name	Ordering code	Pieces per box	Pieces per pallet	Box dimensions [mm]
RecLED 519x261mm 2500lm 830 48V Opt G3.1	1010 127 30346	12	672	553 x 283 x 58
RecLED 519x261mm 2500lm 840 48V Opt G3.1	1010 127 30446	12	672	553 x 283 x 58
RecLED 519x261mm 2500lm 930 48V Opt G3.1	1010 127 30546	12	672	553 x 283 x 58
RecLED 519x261mm 2500lm 940 48V Opt G3.1	1010 127 30646	12	672	553 x 283 x 58
RecLED 519x261mm 2500lm 830 48V Opt G1	1010 127 02446	12	672	553 x 283 x 58
RecLED 519x261mm 2500lm 840 48V Opt G1	1010 127 02546	12	672	553 x 283 x 58