

Outdoor LED modules

Product description

- Long life-time
- Compliance and approval: CE
- Re-workable push-in terminals enabling easy connection
- Small colour tolerance (MacAdam5)
- Tolerance range for optical and electrical data $\pm 10\%$
- Min. driving current 200mA
- Available CCT from 2200K to 6500K and CRI 80, 90
- Compatible with standard 2x2 lenses (e.g. LEDiL Strada 2X2)



RecLED 122x50mm

Product name	Ordering code	Colour temp. [K]	If nominal [mA]	Luminous flux @ If nom & T _p Φ [lm]	Voltage @ If nom & T _p Vf [V]	Power @ If nom & T _p P [W]	Efficiency @ If nom & T _p [lm/W]	Max. current If [mA]
RecLED 122x50mm 1900lm 730 2x4 Opt G1	1010 117 51246	3000K	520	1796	22	11	158	1500
RecLED 122x50mm 1900lm 740 2x4 Opt G1	1010 117 51346	4000K	520	1913	22	11	168	1500
RecLED 122x50mm 1900lm 765 2x4 Opt G1	1010 117 51446	6500K	520	1913	22	11	168	1500

RecLED 173x50mm

Product name	Ordering code	Colour temp. [K]	If nominal [mA]	Luminous flux @ If nom & T _p Φ [lm]	Voltage @ If nom & T _p Vf [V]	Power @ If nom & T _p P [W]	Efficiency @ If nom & T _p [lm/W]	Max. current If [mA]
RecLED 173x50mm 2900lm 730 2x6 Opt G1	1010 117 51546	3000K	520	2693	33	17	158	1500
RecLED 173x50mm 2900lm 740 2x6 Opt G1	1010 117 51646	4000K	520	2870	33	17	168	1500
RecLED 173x50mm 2900lm 765 2x6 Opt G1	1010 117 51746	6500K	520	2870	33	17	168	1500

RecLED 224x50mm

Product name	Ordering code	Colour temp. [K]	If nominal [mA]	Luminous flux @ If nom & T _p Φ [lm]	Voltage @ If nom & T _p Vf [V]	Power @ If nom & T _p P [W]	Efficiency @ If nom & T _p [lm/W]	Max. current If [mA]
RecLED 224x50mm 3800lm 765 2x8 Opt G1	1010 117 51846	3000K	520	3591	44	23	158	1500
RecLED 224x50mm 3800lm 765 2x8 Opt G1	1010 117 51946	4000K	520	3827	44	23	168	1500
RecLED 224x50mm 3800lm 765 2x8 Opt G1	1010 117 52046	6500K	520	3827	44	23	168	1500

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Temperatures

Specification item

T_p	75°C	Temperature related to the performance parameters of the LED modules
T_p rated	75°C	Maximum operating temperature to which the rated performance characteristics are declared
T_c	95°C	Highest permissible value for safe operation

Electrical & Optical data

Specification item	Unit	Value
Classification acc. to IEC 62031	[V]	built-in
Energy Efficiency Class		A++
Working Voltage	[Vdc]	420
Beam angle	[deg]	120
Initial color consistency	[step]	3
Initial color coordinates		Acc. to CIE 1931
Photobiological safety		RG2 (RG1 @ >0,5m distance)

Certificates & standards

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

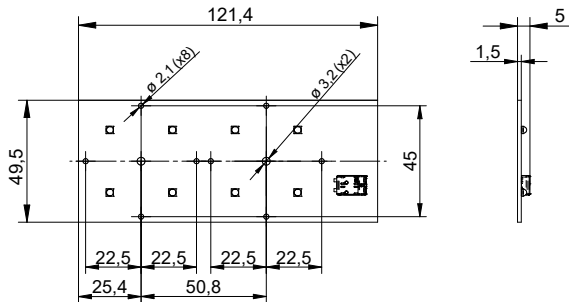
Lumen maintenance simulation based on LM80 LED data

Forward current	T _p temperature	L 70		L80		L90	
		B50	B10	B50	B10	B50	B10
If nom	75°C	>100,000	>100,000	>100,000	>100,000	>100,000	>100,000
	80°C	>100,000	>100,000	>100,000	>100,000	>100,000	>100,000
	85°C	>100,000	>100,000	>100,000	>100,000	>100,000	>100,000
	90°C	>100,000	>100,000	>100,000	>100,000	>100,000	>100,000
	95°C	>100,000	>100,000	>100,000	>100,000	>100,000	>100,000
If max	75°C	>100,000	>100,000	>100,000	>100,000	>100,000	>100,000
	80°C	>100,000	>100,000	>100,000	>100,000	>100,000	>100,000
	85°C	>100,000	>100,000	>100,000	>100,000	82,000	77,000
	90°C	>100,000	>100,000	>100,000	>100,000	58,000	54,000
	95°C	>100,000	>100,000	>100,000	>100,000	41,000	38,000

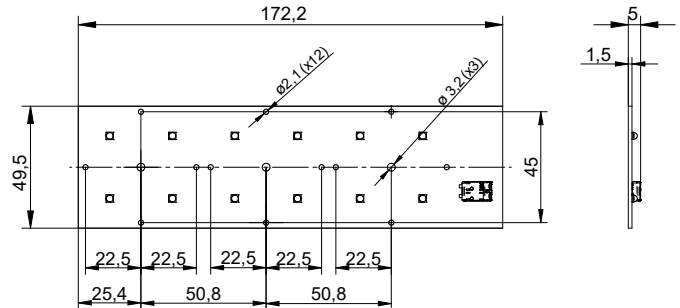
Outdoor LED modules

Dimensions

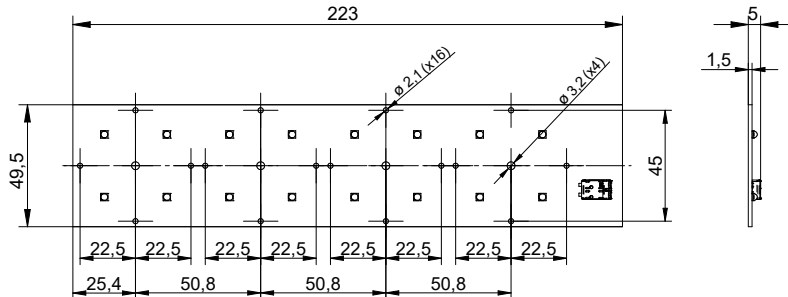
RecLED 122x50mm



RecLED 173x50mm



RecLED 224x50mm



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

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Connections

