

## 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 80mA
- Available CCT from 2700K to 6500K and CRI 80, 90
- Compatible with standard 2x2 lenses (e.g. LEDiL Strada 2X2-5050)



### RecLED 122x50mm 2x4 5050 G2

Product name	Ordering code	Colour temp. [K]	If nominal [mA]	Luminous flux @ If nom & Tp $\Phi$ [lm]	Voltage @ If nom & Tp Vf [V]	Power @ If nom & Tp P [W]	Efficiency @ If nom & Tp [lm/W]	Max. current If [mA]
RecLED 122x50mm 1900lm 730 2x4 5050 Opt G2	1010 117 71046	3000	460	1836	22	10	184	1600
RecLED 122x50mm 1900lm 740 2x4 5050 Opt G2	1010 117 71146	4000	460	1923	22	10	193	1600

### RecLED 173x50mm 2x6 5050 G2

Product name	Ordering code	Colour temp. [K]	If nominal [mA]	Luminous flux @ If nom & Tp $\Phi$ [lm]	Voltage @ If nom & Tp Vf [V]	Power @ If nom & Tp P [W]	Efficiency @ If nom & Tp [lm/W]	Max. current If [mA]
RecLED 173x50mm 2900lm 730 2x6 5050 Opt G2	1010 117 71246	3000	460	2754	33	15	184	1600
RecLED 173x50mm 2900lm 740 2x6 5050 Opt G2	1010 117 71346	4000	460	2885	33	15	193	1600

### RecLED 224x50mm 2x8 5050 G2

Product name	Ordering code	Colour temp. [K]	If nominal [mA]	Luminous flux @ If nom & Tp $\Phi$ [lm]	Voltage @ If nom & Tp Vf [V]	Power @ If nom & Tp P [W]	Efficiency @ If nom & Tp [lm/W]	Max. current If [mA]
RecLED 224x50mm 3800lm 730 2x8 5050 Opt G2	1010 117 71446	3000	460	3671	43	20	184	1600
RecLED 224x50mm 3800lm 740 2x8 5050 Opt G2	1010 117 71546	4000	460	3846	43	20	193	1600

### RecLED 274x50mm 2x10 5050 G2

Product name	Ordering code	Colour temp. [K]	If nominal [mA]	Luminous flux @ If nom & Tp $\Phi$ [lm]	Voltage @ If nom & Tp Vf [V]	Power @ If nom & Tp P [W]	Efficiency @ If nom & Tp [lm/W]	Max. current If [mA]
RecLED 274x50mm 4800lm 730 2x10 5050 Opt G2	1010 117 75946	3000	460	4589	54	25	184	1600
RecLED 274x50mm 4800lm 740 2x10 5050 Opt G2	1010 117 76046	4000	460	4808	54	25	193	1600

## Outdoor LED modules

### Temperatures

#### Specification item

Tp	75°C	Temperature related to the performance parameters of the LED modules
Tp rated	75°C	Maximum operating temperature to which the rated performance characteristics are declared
Tc	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

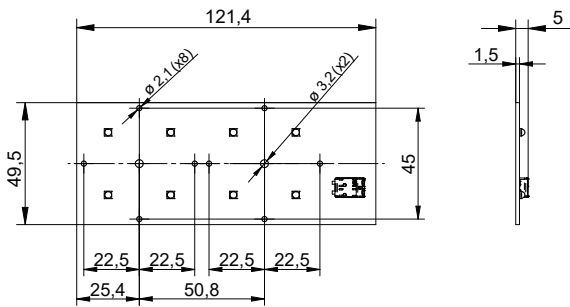
Lumen maintenance simulation based on LM80 LED data

Forward current	Tp 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

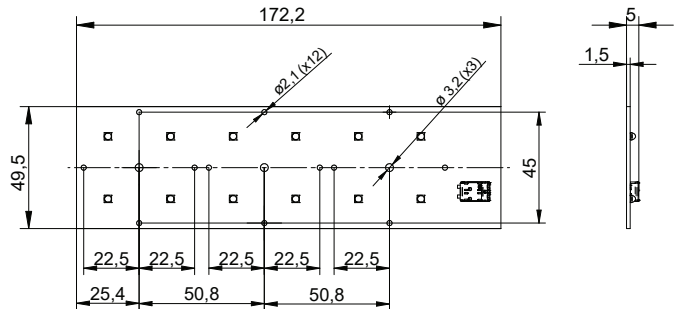
## Outdoor LED modules

### Dimensions

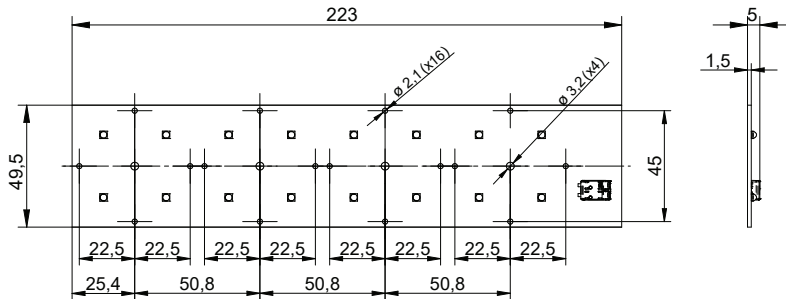
RecLED 122x50mm 2x4



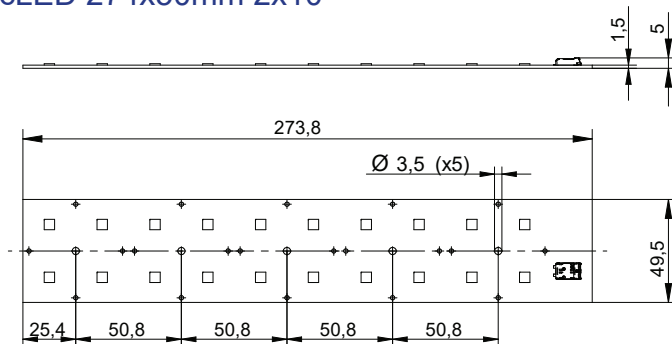
RecLED 173x50mm 2x6



RecLED 224x50mm 2x8



RecLED 274x50mm 2x10



## Outdoor LED modules

### 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 creepeage distance between screw's head and surface of the pcb.

Max. torque for fixing: 0,5Nm

### Connections

