

Round LED modules 440mm

Product description

- Long life-time
- Re-workable push-in terminals enabling easy connection
- Compliance and approval: CE
- Small colour tolerance (MacAdam3)
- Tolerance range for optical and electrical $\pm 10\%$
- Available CCT from 2200K to 6500K and CRI 80, 90 and 95



RdLED 440mm Optimum CRI 80

Product name	Ordering code	Colour temp. [K]	If nominal [mA]	Luminous flux @ If nom & Tp Φ [lm]	Voltage @ If nom & Tp Vf [V]	Power @ If nom & Tp P [W]	Efficiency @ If nom & Tp [lm/W]	Max. current If [mA]
RdLED 440mm 5000lm 830 117V Opt G2	101011772146	3000	260	4845	108	28	173	600
RdLED 440mm 5000lm 830 39V Opt G2	101011772346		780	4845	36	28	172	1800
RdLED 440mm 5000lm 840 117V Opt G2	101011772246	4000	260	5059	108	28	182	600
RdLED 440mm 5000lm 840 39V Opt G2	101011772446		780	5059	36	28	181	1800

RdLED 440mm Optimum CRI 90

Product name	Ordering code	Colour temp. [K]	If nominal [mA]	Luminous flux @ If nom & Tp Φ [lm]	Voltage @ If nom & Tp Vf [V]	Power @ If nom & Tp P [W]	Efficiency @ If nom & Tp [lm/W]	Max. current If [mA]
RdLED 440mm 5000lm 930 117V Opt G2	101011771746	3000	290	4684	111	32	145	600
RdLED 440mm 5000lm 930 39V Opt G2	101011771946		870	4684	37	32	145	1800
RdLED 440mm 5000lm 940 117V Opt G2	101011771846	4000	290	5008	111	32	155	600
RdLED 440mm 5000lm 940 39V Opt G2	101011772046		870	5008	37	32	155	1800

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Temperatures

Specification item

T_p	45°C	Temperature related to the performance parameters of the LED modules
T_p rated	65°C	Maximum operating temperature to which the rated performance characteristics are declared
T_c	85°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]	340
Beam angle	[deg]	120
Initial color consistency	[step]	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
Overheating protection	No

Lumen maintenance

RdLED CRI 80

Forward current	T_p temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
I_f nom	45°C	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000
	55°C	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000
	65°C	>60,000	>60,000	>60,000	>60,000	>60,000	53,000
I_f max	45°C	>60,000	>60,000	>60,000	>60,000	>60,000	57,000
	55°C	>60,000	>60,000	>60,000	>60,000	>60,000	54,000
	65°C	>60,000	>60,000	>60,000	>60,000	>60,000	48,000

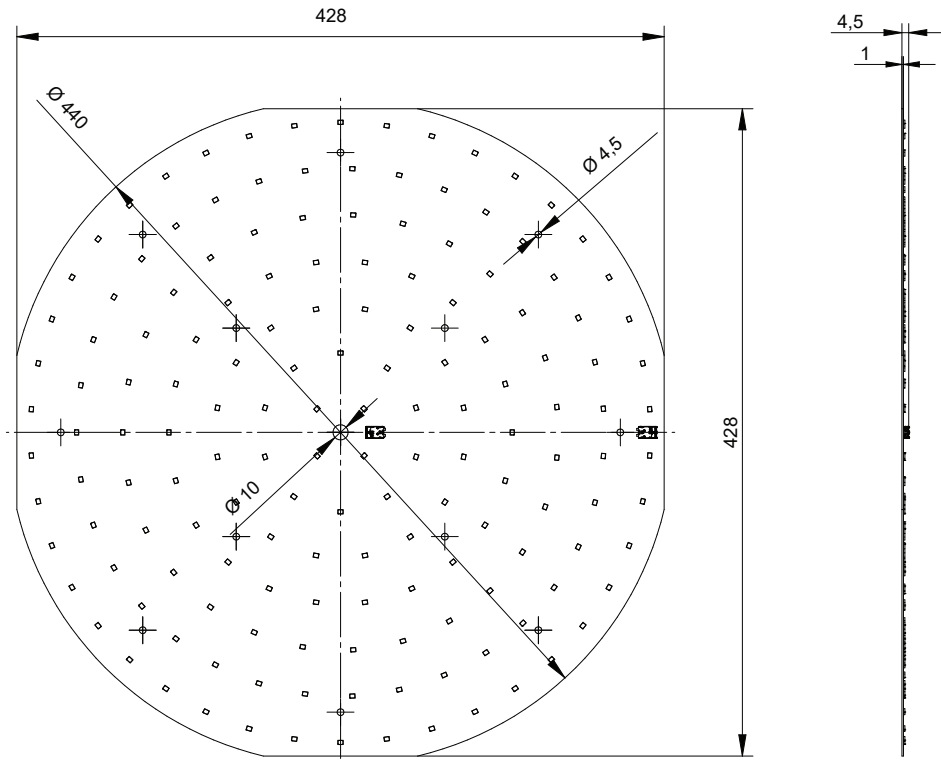
RdLED CRI 90

Forward current	T_p temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
I_f nom	45°C	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000
	55°C	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000
	65°C	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000
I_f max	45°C	>60,000	>60,000	52,000	49,000	29,000	28,000
	55°C	>60,000	>60,000	50,000	46,000	27,000	26,000
	65°C	>60,000	>60,000	47,000	44,000	25,000	24,000

simulation based on LM80 LED data (10,000h)

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Dimensions

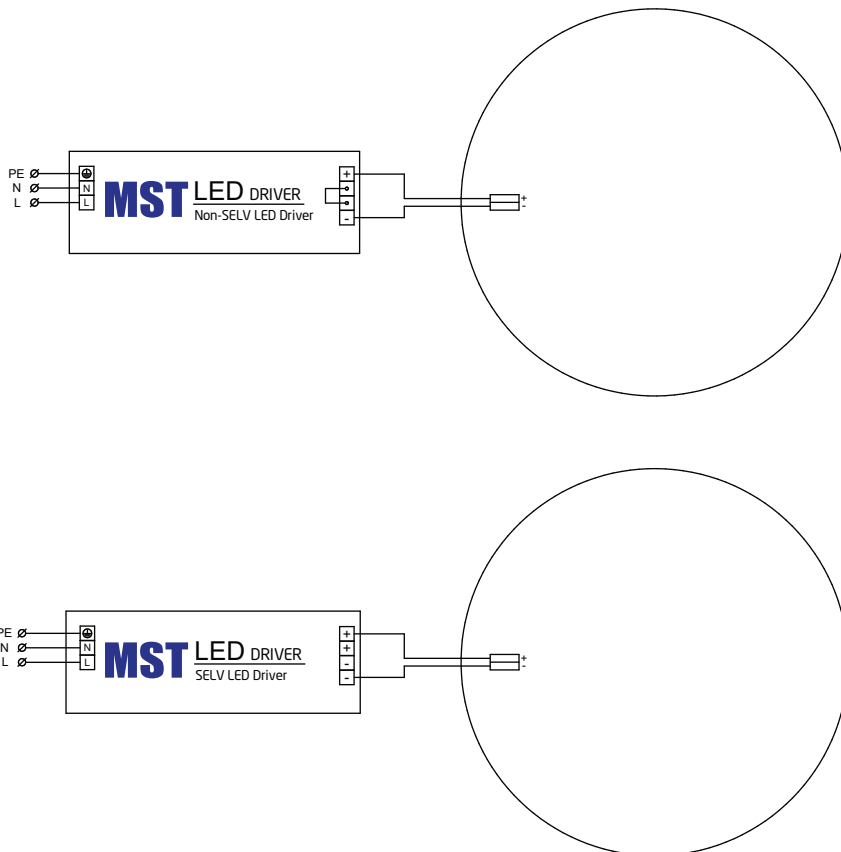


Mounting

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

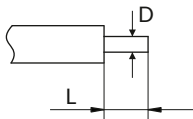
Round LED Ring 440mm

Connections



Wiring

Wire cross section and strip length:



D - wire cross section <i>solid and flexible wires</i>	Min	Max
	0.2mm ²	0.75mm ²
	AWG 18	AWG 24

L - strip length	Min	Max
	8mm	9mm

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

