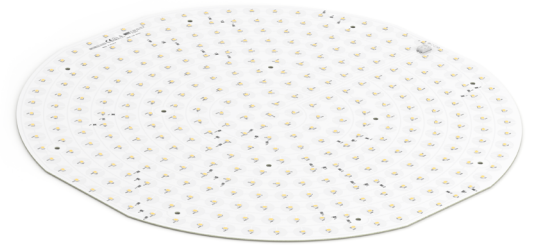


Round LED modules 440mm FLAT

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



RdLED CRI 80 CJ G4

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
RdLED 440mm 5000lm 830 42V FLAT CJ G4	1010 147 80946	3000	675	4920	5046	37	25	198	120	3600	B
RdLED 440mm 5000lm 830 126V FLAT CJ G4	1010 147 81146		225	4920	5046	110	25	198	40	1200	B
RdLED 440mm 5000lm 840 42V FLAT CJ G4	1010 147 81046	4000	675	5117	5248	37	25	206	120	3600	B
RdLED 440mm 5000lm 840 126V FLAT CJ G4	1010 147 81246		225	5117	5248	110	25	206	40	1200	B

RdLED CRI 80 LG G2

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
RdLED 440mm 5000lm 830 42V FLAT LG G2	1010 147 80546	3000	705	4892	5044	37	26	185	240	3600	C
RdLED 440mm 5000lm 830 126V FLAT LG G2	1010 147 80746		235	4892	5044	112	26	185	80	1200	C
RdLED 440mm 5000lm 840 42V FLAT LG G2	1010 147 80646	4000	705	5197	5359	37	26	197	240	3600	C
RdLED 440mm 5000lm 840 126V FLAT LG G2	1010 147 80846		235	5197	5359	112	26	197	80	1200	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%

Round LED modules 440mm FLAT

Temperature & humidity

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

Tp - Temperature related to the performance parameters of the LED modules

Tp rated - Maximum operating temperature to which the rated performance characteristics are declared

Tc - Highest permissible value for safe operation

Technical data

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

Color coordinates

According to CIE 1931

Specification item	CIEx	CIEy
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
IP rating	No IP rating

Lumen maintenance

for LE G5, LG G2, LA G3

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	>100 000	>100 000
	55°C	>100 000	>100 000	>100 000	>100 000	>100 000	>100 000
	65°C	>100 000	>100 000	>100 000	>100 000	>100 000	>100 000
	75°C	>100 000	>100 000	>100 000	>100 000	>100 000	98 000
	85°C	>100 000	>100 000	>100 000	>100 000	81 000	73 000
If max	45°C	50 000	46 000	32 000	29 000	16 000	15 000
	55°C	50 000	46 000	32 000	29 000	16 000	15 000
	65°C	50 000	46 000	32 000	29 000	16 000	15 000
	75°C	50 000	46 000	32 000	29 000	16 000	15 000
	85°C	50 000	46 000	32 000	29 000	16 000	15 000

Calculated data based on LM80 LED data (12 000h)

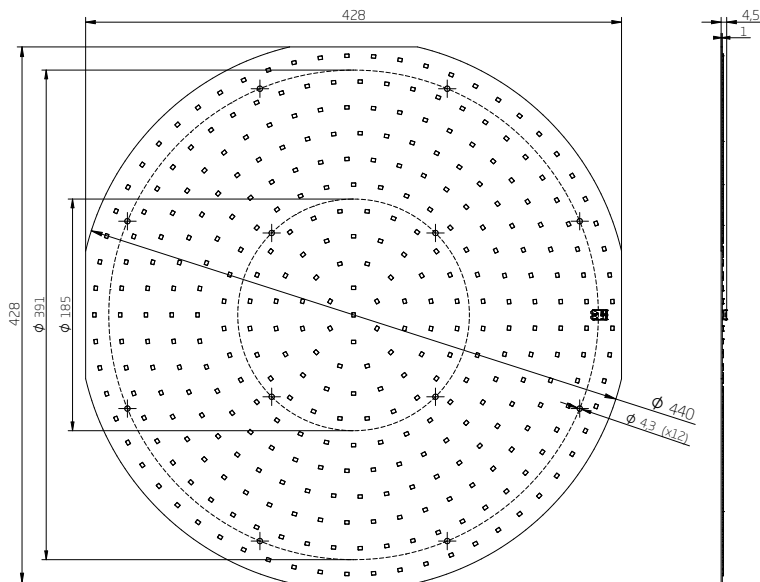
for CJ G4, CN G3

Forward current	Tp temp.	L70 [h]		L80 [h]		L90 [h]	
		B50	B10	B50	B10	B50	B10
If nom	45°C	>102 000	>102 000	>102 000	>102 000	>102 000	>102 000
	55°C	>102 000	>102 000	>102 000	>102 000	>102 000	>102 000
	65°C	>102 000	>102 000	>102 000	>102 000	89 000	88 000
	75°C	>102 000	>102 000	>102 000	>102 000	75 000	74 000
	85°C	>102 000	>102 000	>102 000	>102 000	64 000	63 000
If max	45°C	>102 000	>102 000	>102 000	>102 000	>102 000	>102 000
	55°C	>102 000	>102 000	>102 000	>102 000	90 000	89 000
	65°C	>102 000	>102 000	>102 000	>102 000	77 000	76 000
	75°C	>102 000	>102 000	>102 000	>102 000	65 000	64 000
	85°C	>102 000	>102 000	>102 000	>102 000	55 000	54 000

Reported data based on LM80 LED data (17 000h)

Round LED modules 440mm FLAT

Dimensions



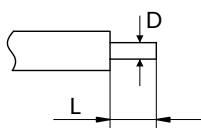
Mounting

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

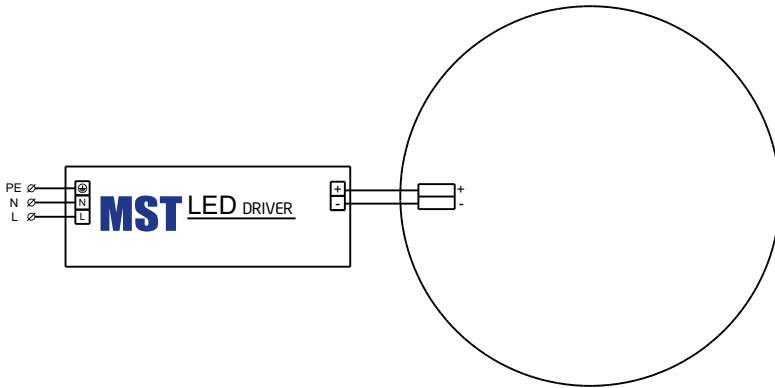
L - strip length	Min	Max
	8mm	9mm

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



Round LED modules 440mm FLAT

Connections



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]
RdLED 440mm 5000lm 830 42V FLAT CJ G4	1010 147 80946	12	336	441 x 441 x 58
RdLED 440mm 5000lm 830 126V FLAT CJ G4	1010 147 81146	12	336	441 x 441 x 58
RdLED 440mm 5000lm 840 42V FLAT CJ G4	1010 147 81046	12	336	441 x 441 x 58
RdLED 440mm 5000lm 840 126V FLAT CJ G4	1010 147 81246	12	336	441 x 441 x 58
RdLED 440mm 5000lm 830 42V FLAT LG G2	1010 147 80546	12	336	441 x 441 x 58
RdLED 440mm 5000lm 830 126V FLAT LG G2	1010 147 80746	12	336	441 x 441 x 58
RdLED 440mm 5000lm 840 42V FLAT LG G2	1010 147 80646	12	336	441 x 441 x 58
RdLED 440mm 5000lm 840 126V FLAT LG G2	1010 147 80846	12	336	441 x 441 x 58