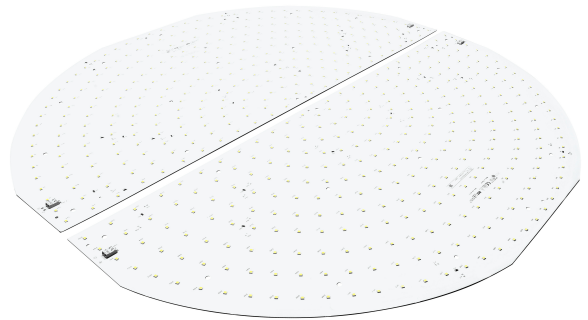


Round LED modules 1/2 740mm

Product description

- Long life-time
- Built-in, constant current LED module
- Re-workable push-in terminals enabling easy connection
- Compliance and approval: CE
- Available CCT from 2700K to 6500K and CRI 80, 90 and 95



LinLED CRI 80

Product name	Ordering code	Colour temperature [K]	Current nominal If nom [mA]	Luminous flux @ If nom & Tp Φ [lm]	Voltage @ If nom & Tp Vf [V]	Power @ If nom & Tp P [W]	Efficacy @ If nom & Tp [lm/W]	Current maximum If max [mA]
RdLED 1/2 740mm 5000lm 830 45V Opt G2	1010 117 87246	3000	640	4765	41	26	182	3000
RdLED 1/2 740mm 5000lm 840 45V Opt G2	1010 117 87346	4000	640	5005	41	26	191	3000
RdLED 1/2 740mm 5000lm 830 90V Opt G2	1010 117 87446	3000	320	4765	82	26	182	1500
RdLED 1/2 740mm 5000lm 840 90V Opt G2	1010 117 87546	4000	320	5005	82	26	191	1500

Tolerance range for optical and electrical ±10%

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

Round LED modules 1/2 740mm

Technical data

Specification item	Unit	Value
Classification acc. to IEC 62031	[V]	built-in
Energy Efficiency Class		A++
Working voltage	[Vdc]	350
Beam angle	[deg]	120
Initial color consistency	[SDCM]	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

Lumen maintenance

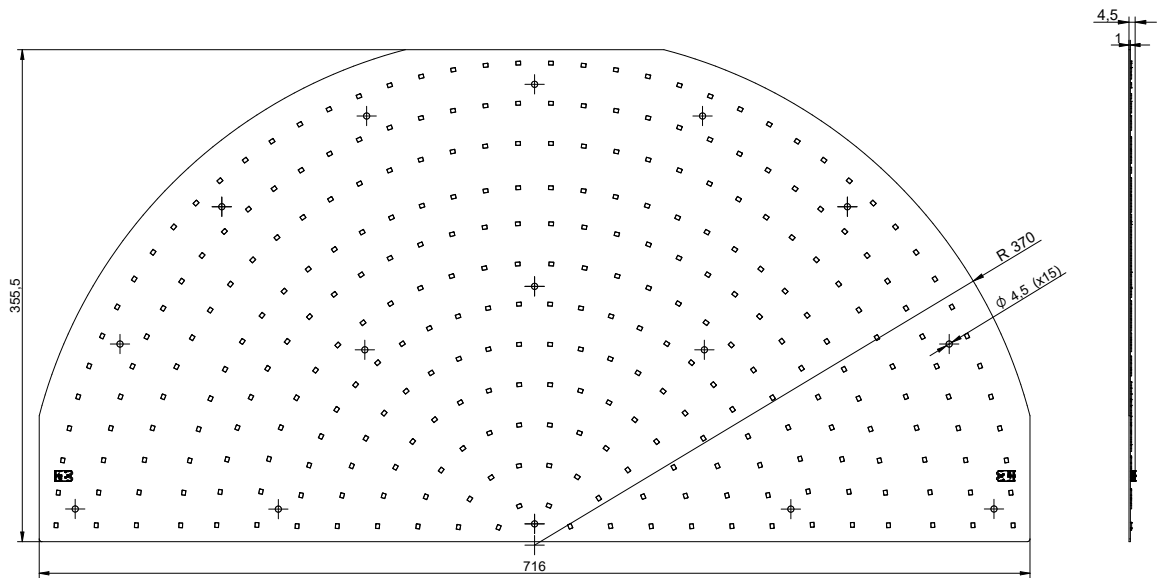
LinLED CRI 80

Forward current	Tp temperature	L70 [h]		L80 [h]		L90 [h]	
		B50	B10	B50	B10	B50	B10
If 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	54 000
If 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	57 000	48 000

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

Round LED modules 1/2 740mm

Dimensions



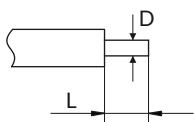
Mounting

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

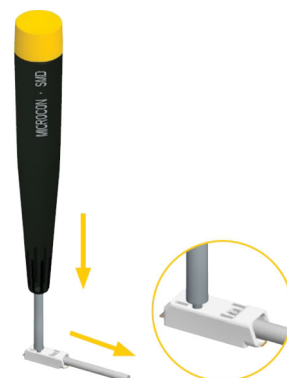
Wire cross section and strip length:



D - wire cross section <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

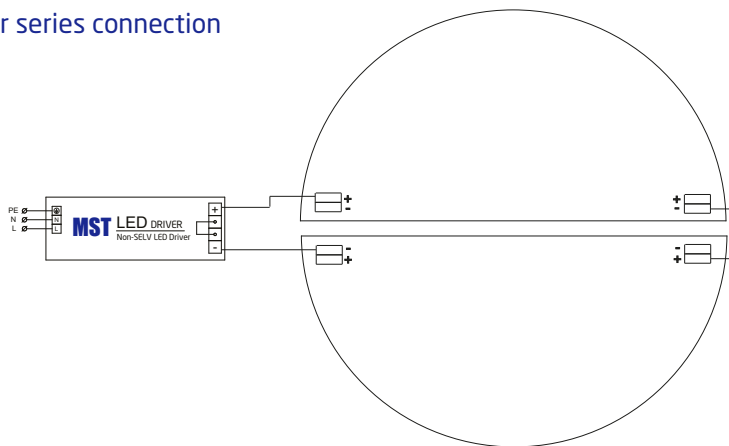
Opening for the release of wires from the top with release pin Electroterminal art. 881 167 884:



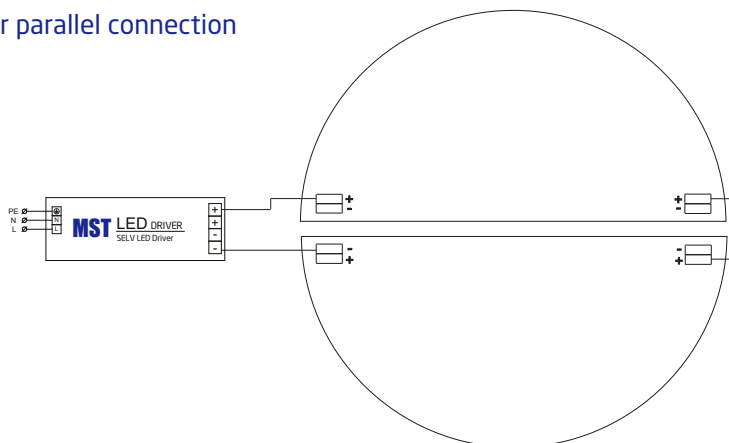
Round LED modules 1/2 740mm

Connections

Wiring for series connection



Wiring for parallel connection



Ordering codes

Specification item	Ordering code	Pieces per box	Pieces per pallet
RdLED 1/2 740mm 5000lm 830 45V Opt G2	1010 117 87246	10	300
RdLED 1/2 740mm 5000lm 840 45V Opt G2	1010 117 87346	10	300
RdLED 1/2 740mm 5000lm 830 90V Opt G2	1010 117 87446	10	300
RdLED 1/2 740mm 5000lm 840 90V Opt G2	1010 117 87546	10	300