

LED Modules 277x26mm LEDIL LIANNA family are LED module based on the CREE LED[®] J Series[®] 2835 G class and J class optimized for cost effective and high efficacy applications and for LEDIL's LIANNA 2R optics. LED Modules 277x26mm LEDIL LIANNA family are providing optimized and easy integration, with excellent quality, reliability and precision.

- High efficacy **219 lm/W** and up to **8215 lm**.
- LM-80 lifetime projections (IEC 62717) **> 100,000 (L70)¹**
- Quick and effective heat dissipation due to the using MCPCB 1.0 mm with thermal conductivity 2.2 W/mK, or standard FR4 1.6mm, Lead Free HASL.
- EPREL registered product.
- Available CCT 2700K, 3000K, 4000K, 5700K, 6500K.
- Available CRI 80 or 90.



➤ **SPECIFICATION**

LED FAMILY	JB 2835 SERIES				
	2700K 3-STEP	3000K 3-STEP	4000K 3-STEP	5700K 3-STEP	6500K 3-STEP
CCT/SDCM					
Viewing Angle	120°				
Nominal Module Lumen Output ²	G class CRI 80				
	1006 lm	1044 lm	1110 lm	1110 lm	1107 lm
	G class CRI 90				
	854 lm	892 lm	955 lm	955 lm	951 lm
	J class CRI 80				
	971 lm	1009 lm	1075 lm	1075 lm	1075 lm
Nominal Efficacy ²	J class CRI 90				
	822 lm	860 lm	919 lm	919 lm	919 lm
	G class CRI 80				
	192 lm/W	200 lm/W	212 lm/W	212 lm/W	212 lm/W
	G class CRI 90				
	163 lm/W	171 lm/W	182 lm/W	182 lm/W	182 lm/W
CRI	80; 90				
	110 mA				
	24 V				
Nominal Driving Current					
Voltage DC (typ.) ²					
Power Consumption ²	5.3 W				
Max. LED module working current ³	0.96 A / module				
Voltage DC (max) ³	28.6 V				
Max power ³	54.5 W				
Max. LED module lumen output ³	G class CRI 80				
	7447	7729	8215	8215	8189
	G class CRI 90				
	6321	6603	7063	7063	7038
	J class CRI 80				
	7041	7317	7795	7795	7795
Number of LEDs	36				
	J class CRI 90				
	5960	6236	6664	6664	6664
Power Supply Type	Constant Current				
Risk Group Classification ⁴	RG-1 Low Risk for 2700K, 3000K, 4000K; RG-2 Moderate Risk for 5700K/6500K when above 262 mA per LED				
Energy Class	G class CRI 80				
	B	B	A	A	A
	G class CRI 90				
	C	C	C	C	C
	J class CRI 80				
	B	B	B	B	B
Operating Temperature	-30°C + +60°C				
	J class CRI 90				
	D	C	C	C	C
Tc max.	85°C				
Lifetime ¹ /Tc life	>102 000 h @ 85°C/105 °C, 240 mA,				

¹ Lifetime of LEDs as declared by the manufacturer **CREE LED®** according to [IES LM-80-2015 Testing Results Revision:32 :2025](#).

² Source performance in real-life conditions at Tc=55°C, 110 mA without heatsink.

³ External heatsink required.

⁴ According to [Eye safety Cree document](#)

➤ **FEATURES**

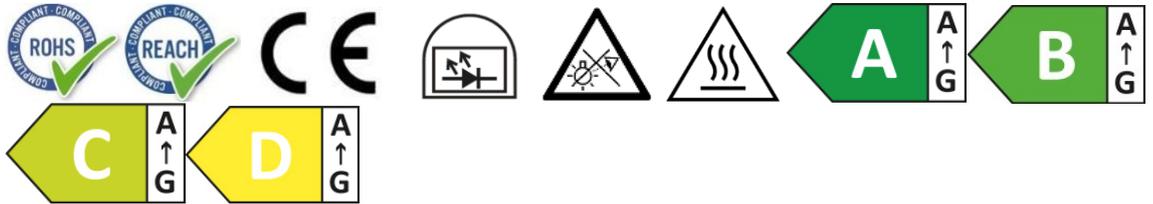
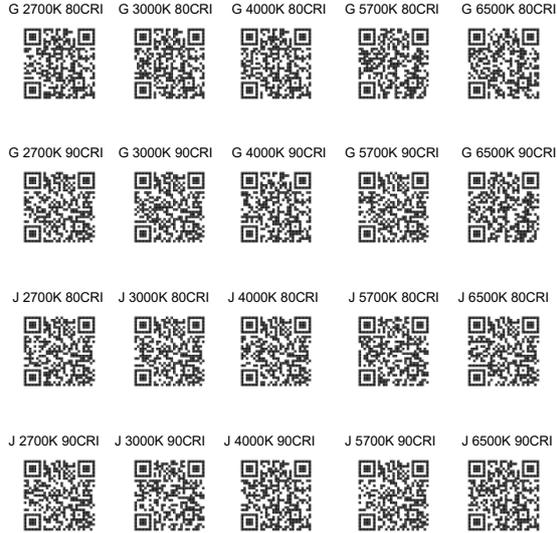
Application:

- ❖ Task lighting
- ❖ Accent lighting
- ❖ Decorative lighting

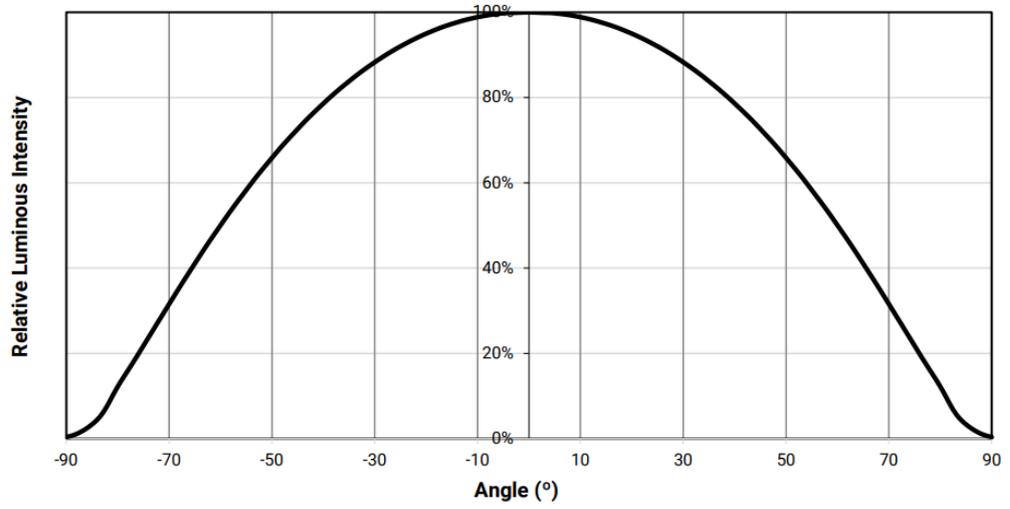
Features:

- ❖ The module is dimmable by current set (0-100%)
- ❖ Long Lifetime
- ❖ Energy Saving

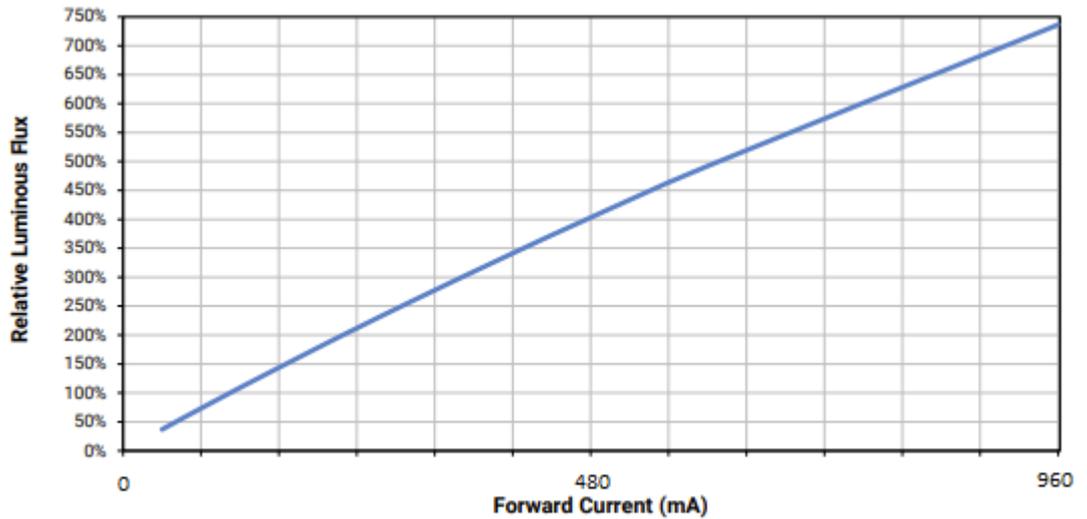
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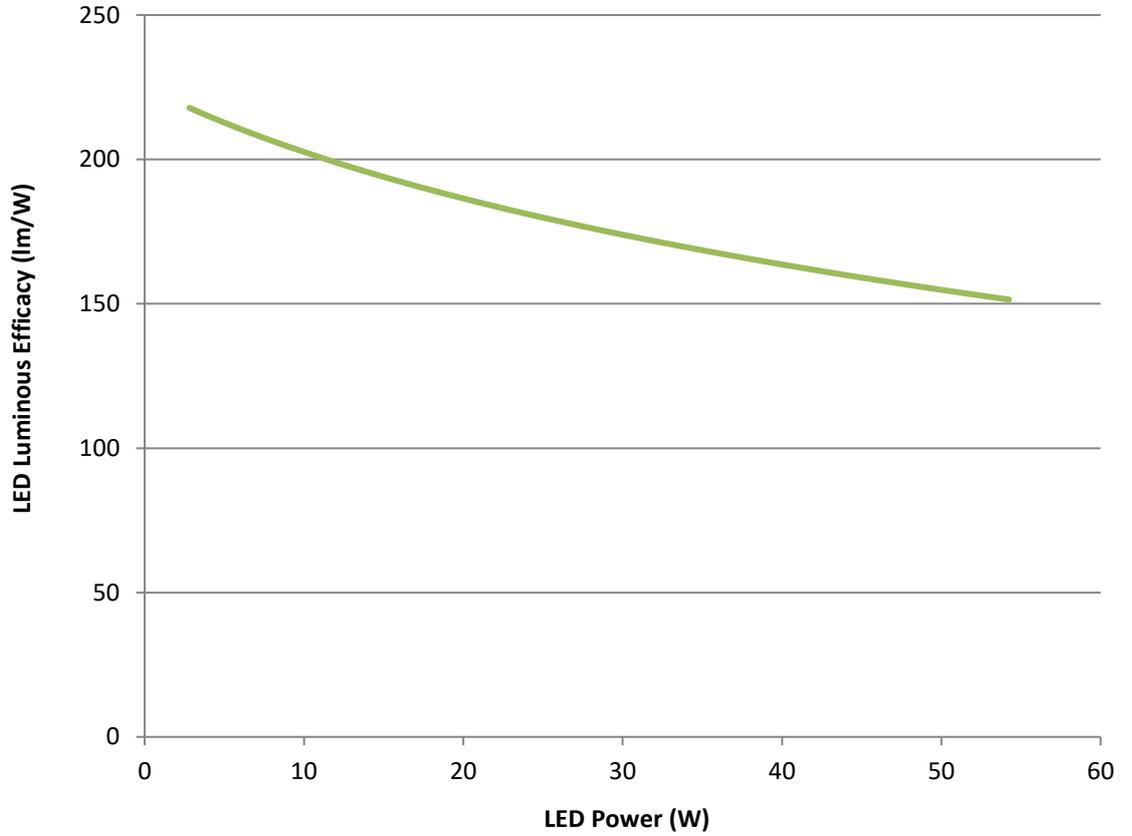
➤ **TYPICAL SPATIAL DISTRIBUTION**



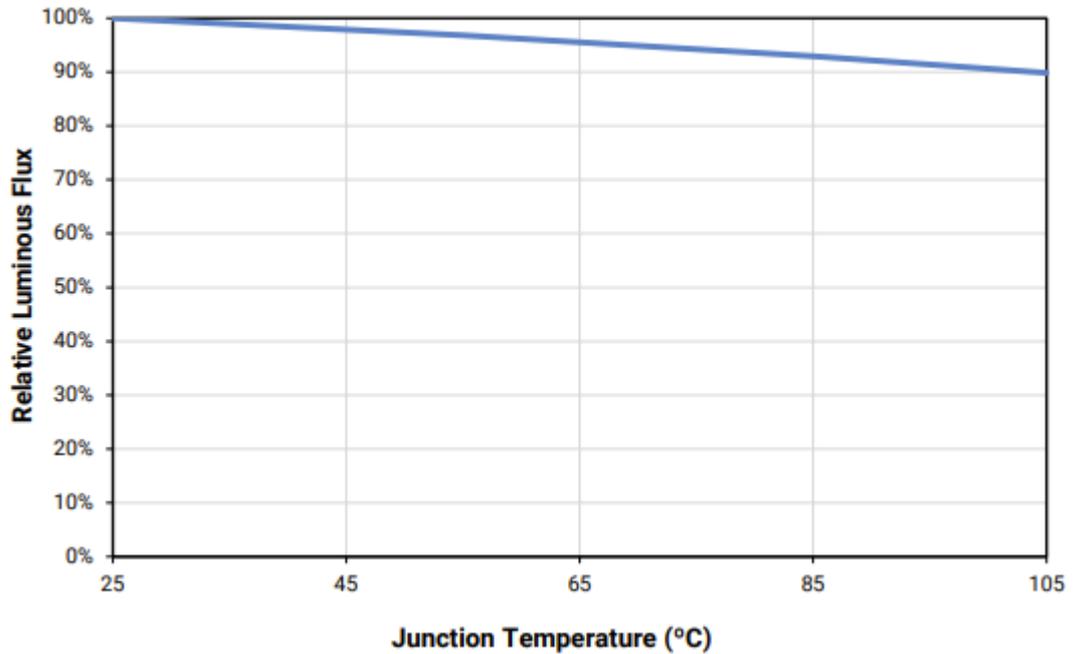
➤ **RELATIVE LUMINOUS FLUX VS. FORWARD CURRENT (mA) J class**



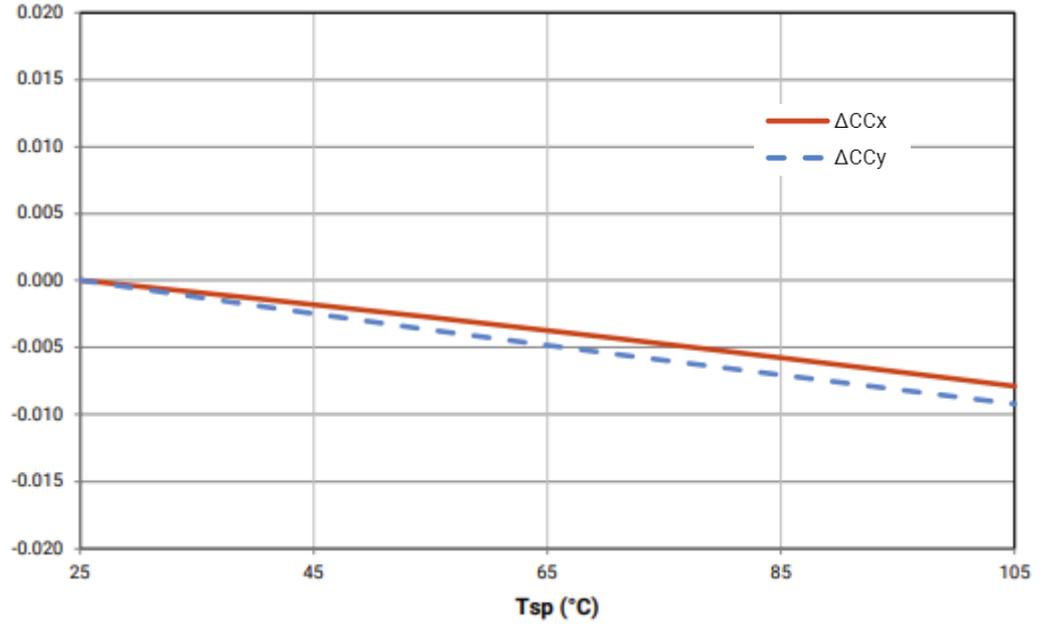
➤ **LUMINOUS EFFICACY (lm/W) VS. MODULE LED POWER (W) G class**



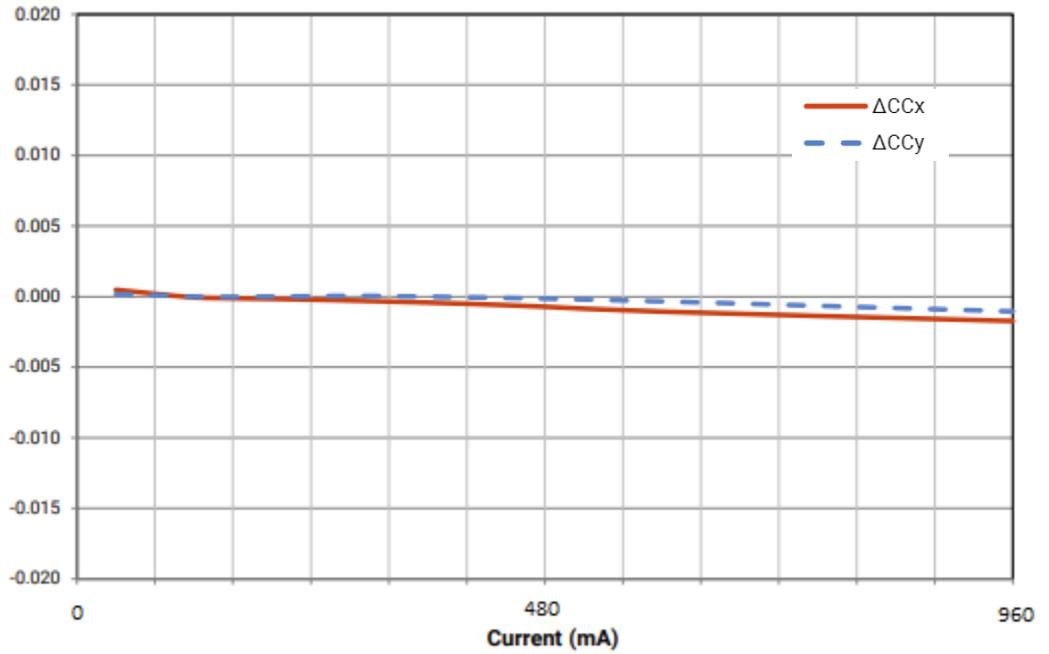
➤ **LUMINOUS FLUX VS. JUNCTION TEMPERATURE**



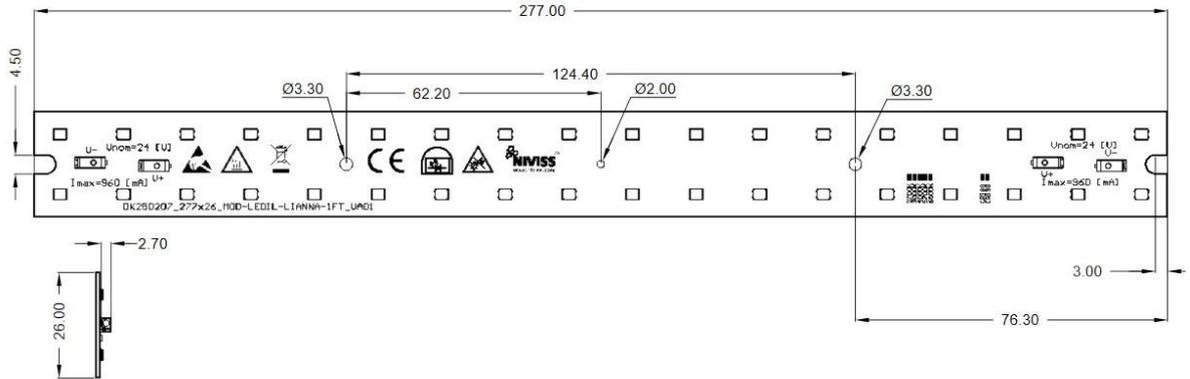
➤ RELATIVE CHROMATICITY VS. TEMPERATURE



➤ RELATIVE CHROMATICITY VS. CURRENT



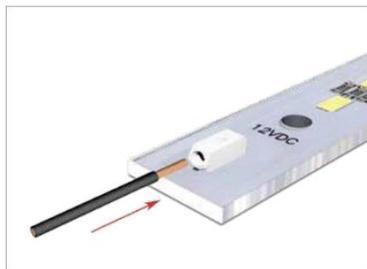
➤ **DIMENSIONS**



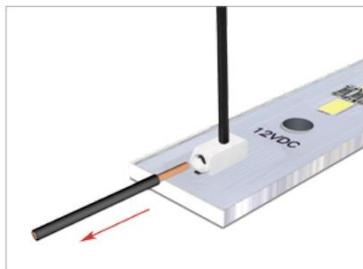
Notes:
Drawing is not to scale.
All dimensions are in millimeters.

MECHANICAL SPECIFICATION		
Dimensions	277 x 26 mm	
Board Thickness	1.0 mm	1.6 mm
Board Material	MCPCB, 5052 Alloy, 2.2W/(m²K); high reflectivity white soldermask	FR4; high reflectivity white soldermask
Shape	Rectangular	

➤ **CONNECTION**



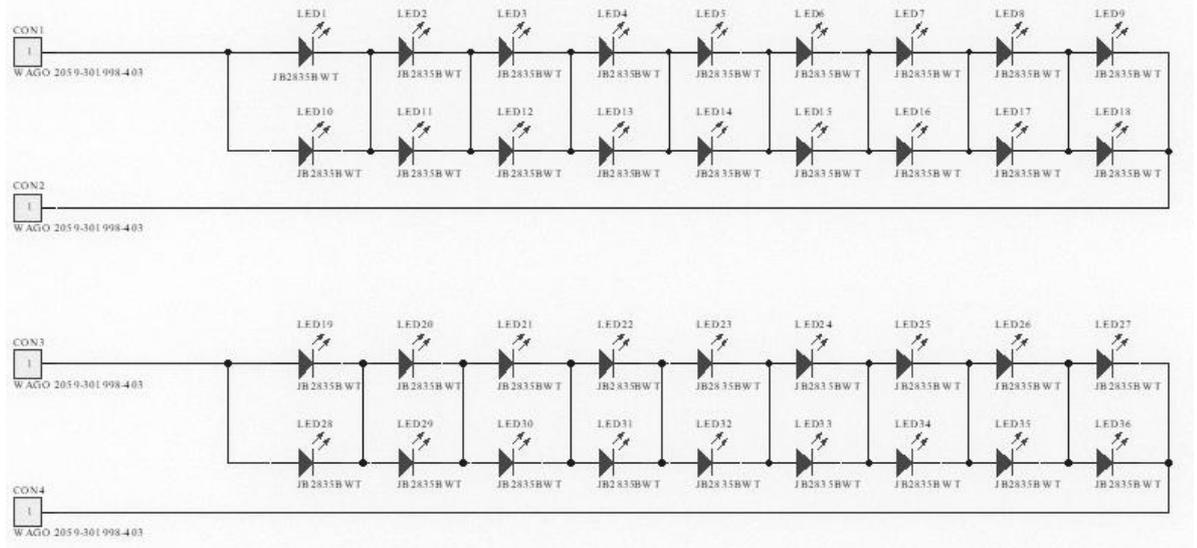
Inserting solid conductors via push-in termination.



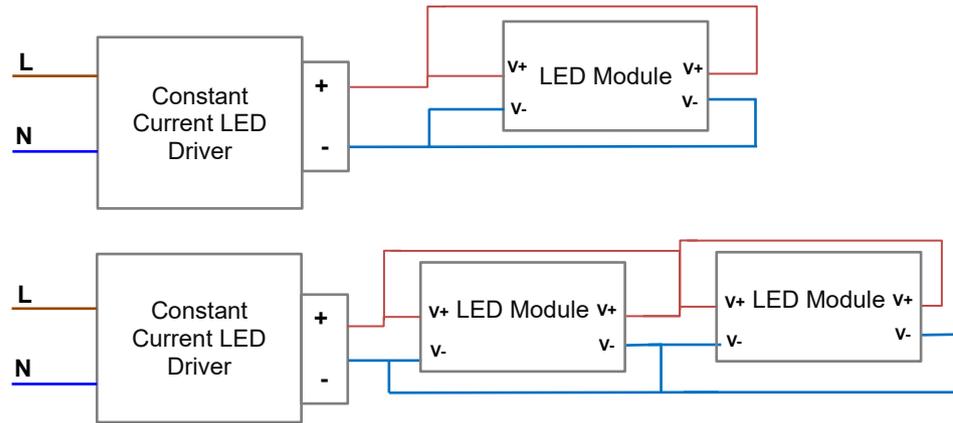
Easy conductor removal, e.g., via 206-859 operating tool.



➤ **ELECTRICAL SCHEMA**



➤ **ELECTRICAL INSTALLATION**



➤ **COMMERCIAL INFORMATION**

COMMERCIAL INFORMATION	
Connector	WAGO 2059
Available Lenses	LEDIL LIANNA-2R-30 LEDIL LIANNA-2R-60 LEDIL LIANNA-2R-90
Minimum Order Quantity	10 pcs.
Warranty	2 years
Power Supply	FLS-25-700DALI2-LA1 EAGLERISE FLS-21-500LD EAGLERISE LCM-25 MEAN-WELL LCM-25DA MEAN-WELL LDC-35 MEAN-WELL LDC-35B MEAN-WELL

➤ **GENERAL TERMS OF USE**

1. The range of acceptable input voltages must include the expected voltage dropout across the LED string check on CREE LED [Website J Series@ 2835](#)
2. Connecting to the power supply should be done when the power supply is off.
3. Modules should be connected to heatsink to dissipate heat from LED module. Temperature on the module shouldn't be higher than recommended by Cree®. Due to power of the module, appropriate heatsink should be used with thermal conductive tape or paste. The lower temperature on LED module causes longer lifetime.
4. During installation of the LED module it is absolutely necessary to use ESD protection. Luminaire design should protect the module from ESD. Installation of the LED module should be done by qualified person.
5. Lenses, diodes and other components on the module must be protected against mechanical damage and exposure to liquids and dirt.
6. The modules shouldn't have contact with hazardous and corrosive substances or aromatic organic compounds such as toluene, acetone, xylene, benzene.
7. For installation of modules use substances recommended and tested by the CREE LED®. List of substances available on the manufacturer's website: cree-led.com

Niviss is not responsible for any damage or failure due to not comply with above rules.

Otherwise, the complaint will not be taken into account.

➤ **ENVIRONMENTAL CAUTION**



Caution!

It is prohibited to dispose of obsolete and waste electrical and electronic equipment together with regular household wastes. They should be properly sorted and recycled. Old electrical and electronic equipment should be returned to a waste collection point established by a waste-management service. Waste electrical and electronic equipment can be broken down to base materials and then recycled. For more information regarding waste management please contact your local authorities, waste-management service or the seller of electrical and electronic devices.

➤ **DATA DOWNLOAD**

- [3D PDF FILE](#)
- [STEP FILE](#)
- [EU DECLARATION OF CONFORMITY \(CE\)](#)