CREE LED® High Efficacy
LED Module 277x26mm LEDIL LIANNA JB2835B family

DK250207

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, 3500K, 4000K, 5000K, 5700K, 6500K.
- Available CRI 80 or 90.

➢ SPECIFICATION

LED FAMILY	MOD-36R277x26-JB2835B						
CCT/SDCM	2700K 3-STEP	3000K 3-STEP	3500K 3-STEP	4000K 3-STEP	5000K 3-STEP	5700K 3-STEP	6500K 3-STEP
Viewing Angle	120°						
Nominal Module Lumen Output[2]	G class CRI 80						
	1006 lm	1044 lm	1079 lm	1110 lm	1110 lm	1110 lm	1107 lm
	G class CRI 90						
	854 lm	892 lm	923 lm	955 lm	955 lm	955 lm	951 lm
	J class CRI 80						
	971 lm	1009 lm	1043 lm	1075 lm	1075 lm	1075 lm	1075 lm
	J class CRI 90						
	822 lm	860 lm	887 lm	919 lm	919 lm	919 lm	919 lm
Nominal Efficacy[2]	G class CRI 80						
	192 lm/W	200 lm/W	206 lm/W	212 lm/W	212 lm/W	212 lm/W	212 lm/W
	G class CRI 90						
	163 lm/W	171 lm/W	177 lm/W	182 lm/W	182 lm/W	182 lm/W	182 lm/W
	J class CRI 80						
	185 lm/W	192 lm/W	199 lm/W	205 lm/W	205 lm/W	205 lm/W	205 lm/W
	J class CRI 90						
	157 lm/W	164 lm/W	169 lm/W	175 lm/W	175 lm/W	175 lm/W	175 lm/W
CRI	80; 90						
Nominal Driving Current	110 mA						
Voltage DC (typ.) [2]	24 V						
Power Consumption[2]	5.3 W						
Max. LED module	**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**	**7985**	**8215**	**8215**	**8215**	**8189**
	G class CRI 90						
	6321	**6603**	**6833**	**7063**	**7063**	**7063**	**7038**
	J class CRI 80						
	7041	**7317**	**7569**	**7795**	**7795**	**7795**	**7795**
	J class CRI 90						
	5960	**6236**	**6437**	**6664**	**6664**	**6664**	**6664**
Number of LEDs	36						
Power Supply Type	Constant Current						
Risk Group	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**	**B**	**A**	**A**	**A**	**A**
	G class CRI 90						
	C	**C**	**C**	**C**	**C**	**C**	**C**
	J class CRI 80						
	B	**B**	**B**	**B**	**B**	**B**	**B**
	J class CRI 90						
	D	**C**	**C**	**C**	**C**	**C**	**C**
Operating Temperature	-30°C ÷ +60°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
- ❖ General lighting
- ❖ Recessed furniture LED spotlight

Features:

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

EPREL Database link

QR CODE

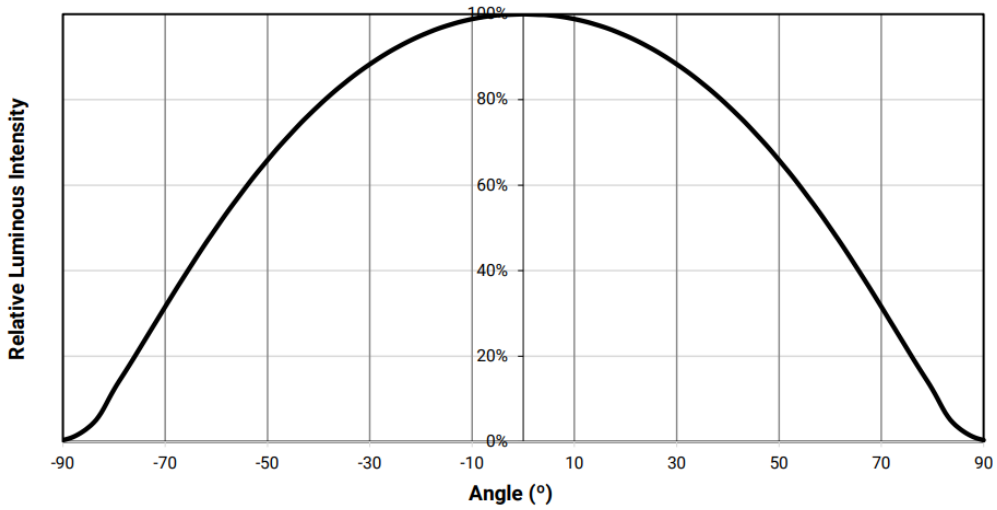
G 2700K 80CRI G 3000K 80CRI G 3500K 80CRI G 4000K 80CRI G 5000K 80CRI G 5700K 80CRI G 6500K 80CRI

G 2700K 90CRI G 3000K 90CRI G 3500K 90CRI G 4000K 90CRI G 5000K 90CRI G 5700K 90CRI G 6500K 90CRI

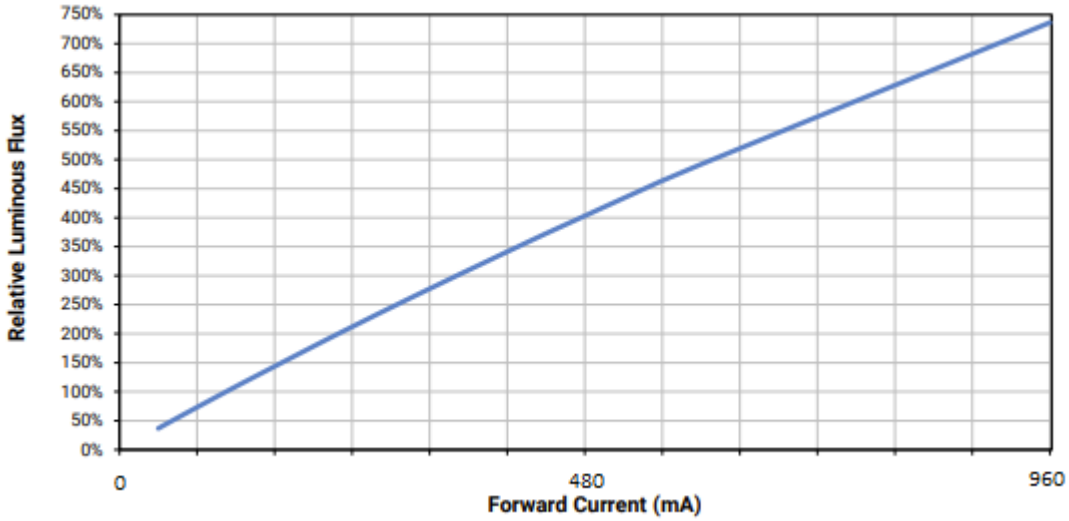
J 2700K 80CRI J 3000K 80CRI J 3500K 80CRI J 4000K 80CRI J 5000K 80CRI J 5700K 80CRI J 6500K 80CRI

J 2700K 90CRI J 3000K 90CRI J 3500K 90CRI J 4000K 90CRI J 5000K 90CRI J 5700K 90CRI J 6500K 90CRI

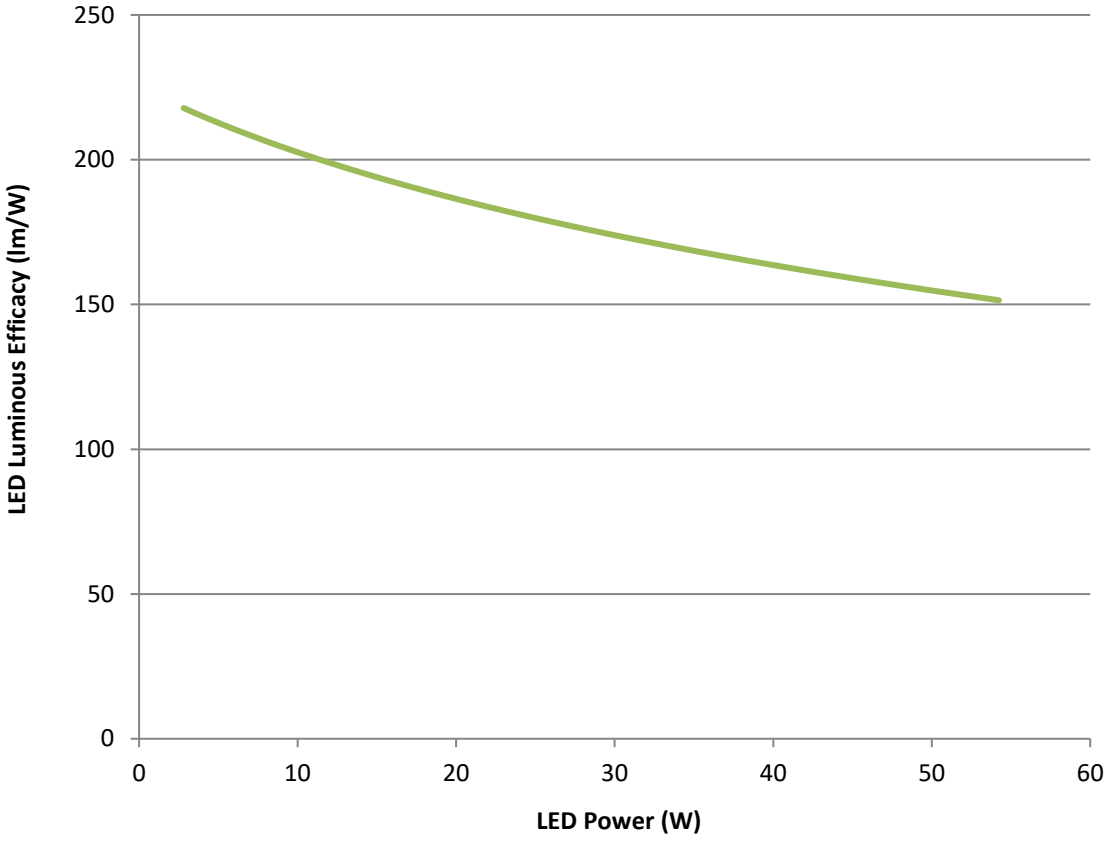
➢ **TYPICAL SPATIAL DISTRIBUTION**



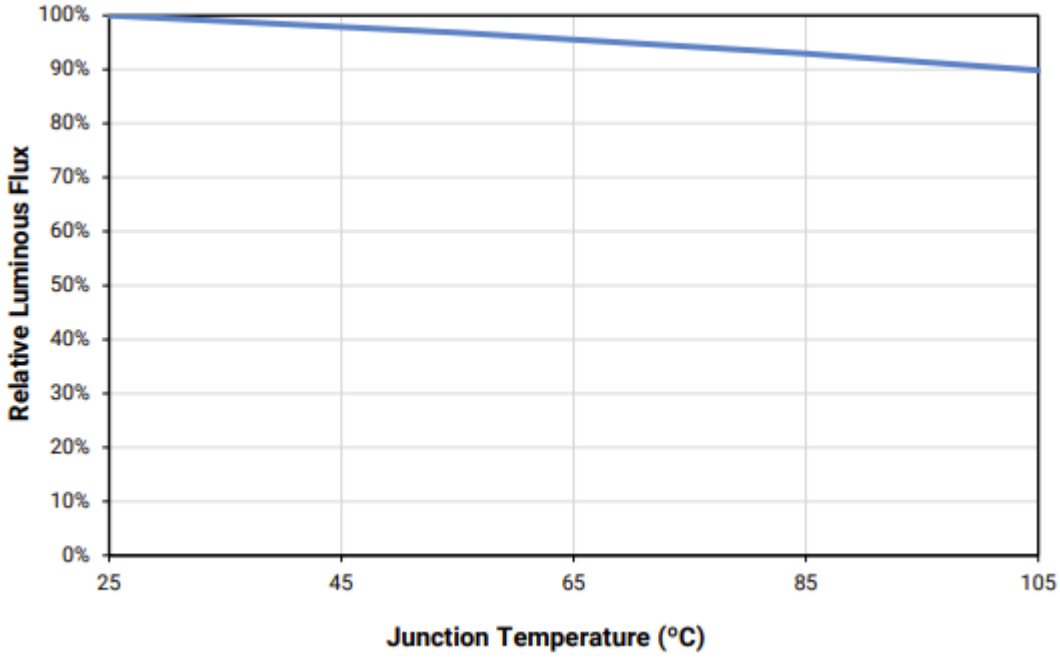
➢ **RELATIVE LUMINOUS FLUX VS. FORWARD CURRENT (mA) J class**



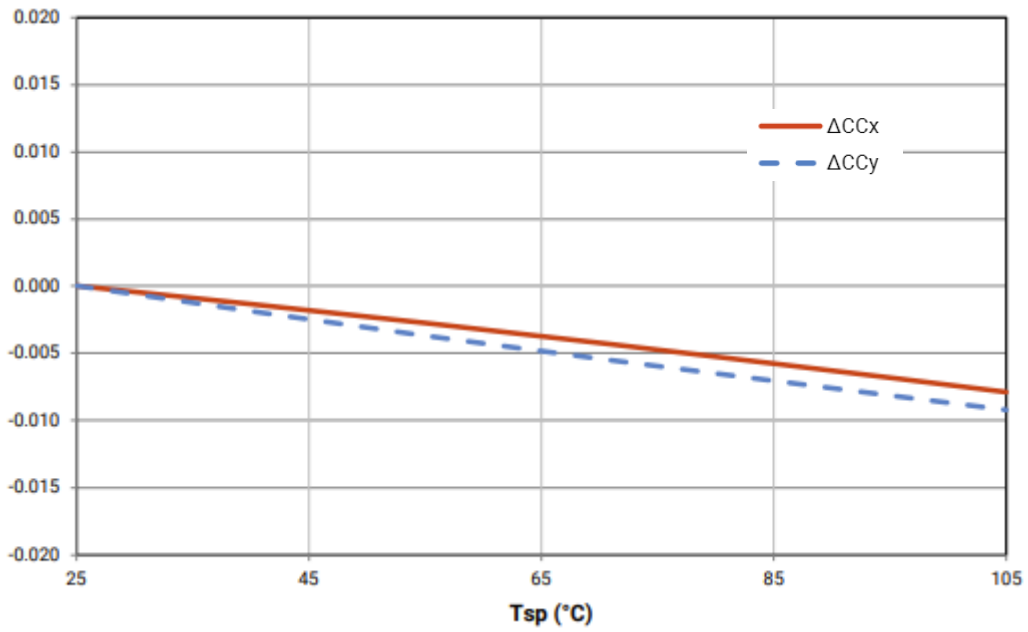
- **LUMINOUS EFFICACY (lm/W) VS. MODULE LED POWER (W) G class**



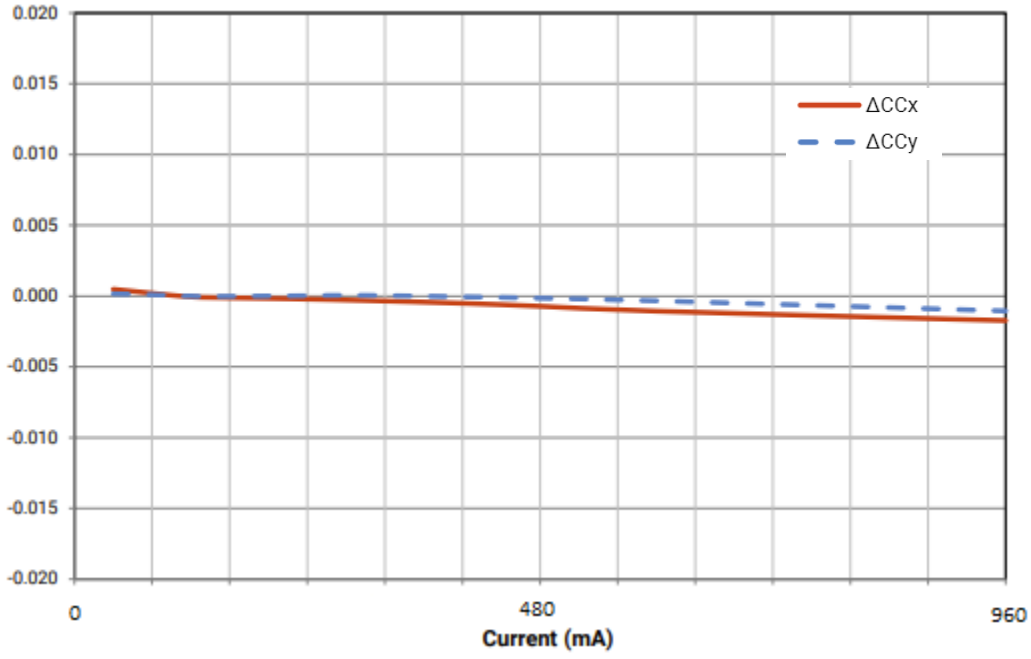
- **LUMINOUS FLUX VS. JUNCTION TEMPERATURE**



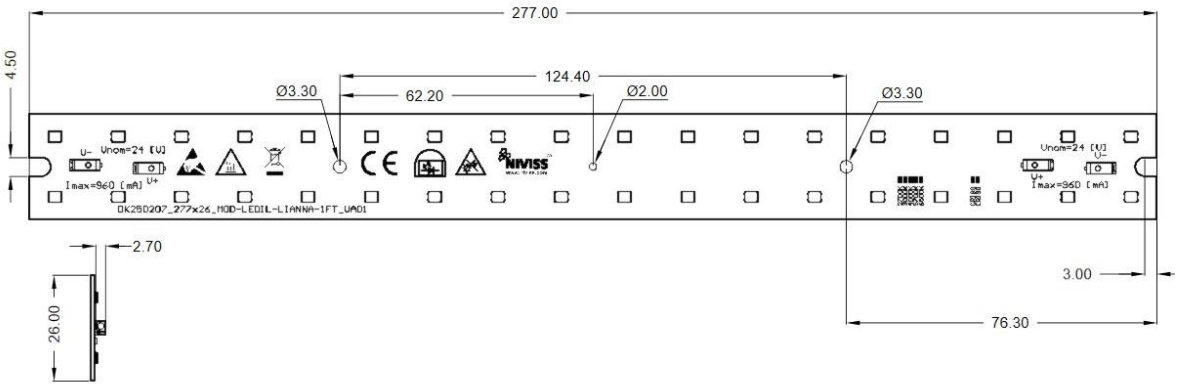
- **RELATIVE CHROMATICITY VS. TEMPERATURE**



- **RELATIVE CHROMATICITY VS. CURRENT**



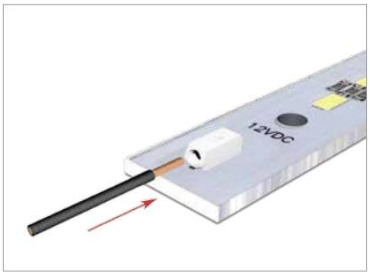
➢ DIMENSIONS



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/(m*K); high reflectivity white soldermask	FR4; high reflectivity white soldermask
Shape	Rectangular	

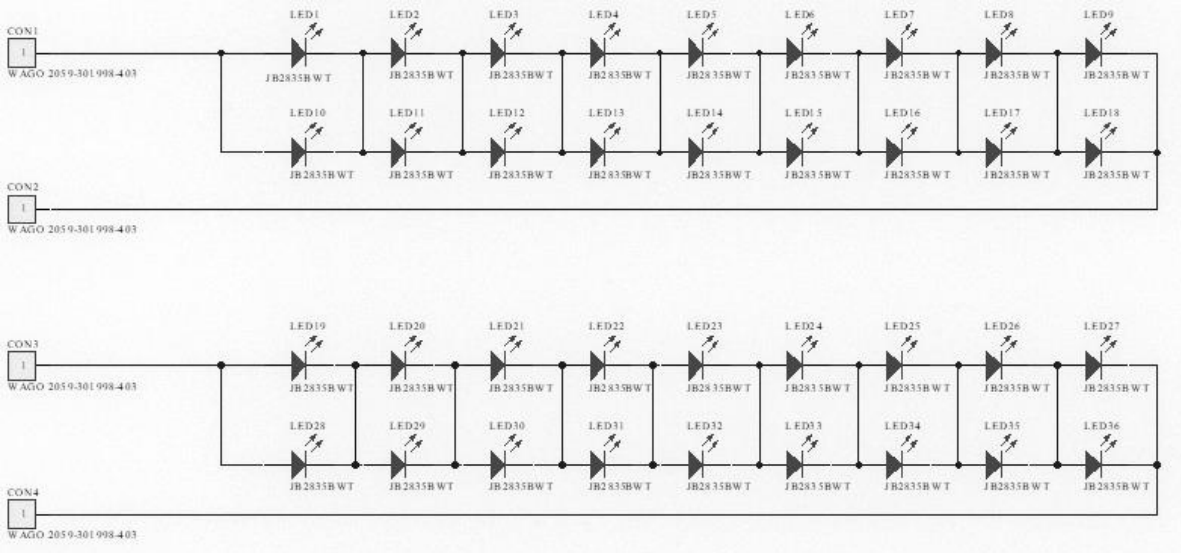
➢ CONNECTION



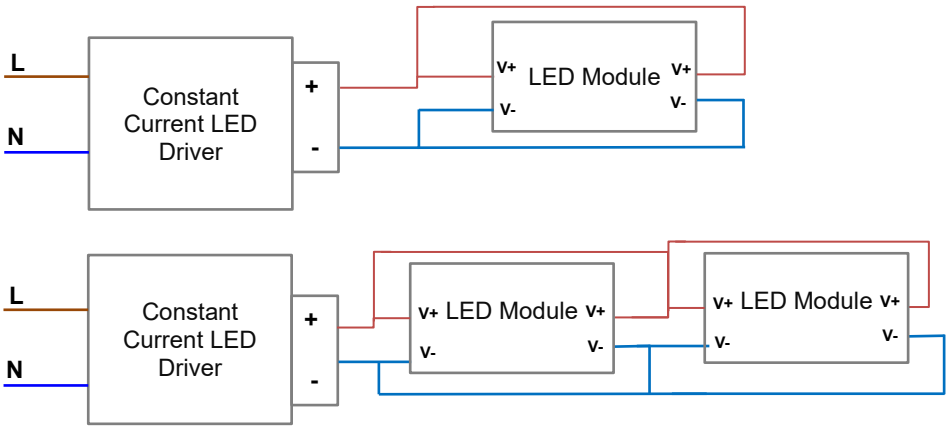
Inserting solid conductors via push-in termination.

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

➢ ELECTRICAL SCHEMA



➢ ELECTRICAL INSTALLATION



➢ ORDERING CODE

ORDERING CODE / ARTICLE CODE	DESCRIPTION
MOD-36R277x26-JB2835BG-2780-VA01	LED Module 277x26 mm, High Efficacy, High Reflectivity White Soldermask, 36 LED, JB2835B class G, 2700K, CRI 80, 1.0 mm MCPCB
MOD-36R277x26-JB2835BG-3080-VA01	LED Module 277x26 mm, High Efficacy, High Reflectivity White Soldermask, 36 LED, JB2835B class G, 3000K, CRI 80, 1.0 mm MCPCB
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MOD-36R277x26-JB2835BG-5080-VA01	LED Module 277x26 mm, High Efficacy, High Reflectivity White Soldermask, 36 LED, JB2835B class G, 5000K, CRI 80, 1.0 mm MCPCB
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MOD-FR36R277X26-JB2835BG-3080-N-VA01	LED Module 277x26 mm, High Efficacy, High Reflectivity White Soldermask, 36 LED, JB2835B class G, 3000K, CRI 80, 1.6 mm FR-4
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➢ 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)