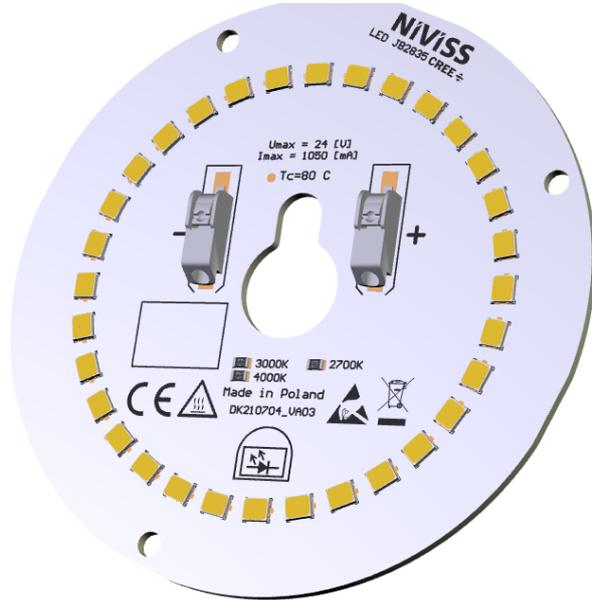


NRL-32-JB2835 family are LED modules based on the CREE LED® JB2835® optimized for cost effective and high efficacy applications. NRL-32-JB2835 modules are providing optimized and easy integration, with excellent quality, reliability and precision.

High efficacy **205 lm/W** and up to **4314 lm**.

LM-80 lifetime projections (IEC 62717)
> 102,000 (L70B10)*

EPREL registered product



➤ **SPECIFICATION**

LED FAMILY	JB2835 SERIES		
	2700K 3-STEP	3000K 3-STEP	4000K 3-STEP
Viewing Angle	120°		
Nominal Module Lumen Output**	1473 lm	1528 lm	1624 lm
Nominal Efficacy	184 lm/W	192 lm/W	205 lm/W
CRI	80		
Nominal Driving Current	368 mA		
Voltage DC (typ.)	21,3 V		
Voltage DC (max)	24,0 V		
Power Consumption	7,5 W		
Max Module Lumen Output (1050 mA)**	3884 lm	4059 lm	4314 lm
Max. LED module working current ***	1050 mA		
Max power	24 W		
Number of LEDs	32		
Power Supply Type	Constant Current		
Risk Group Classification****	RG-1 Low Risk for 2700K, 3000K, 3500K, 4000K; RG-2 Moderate Risk for 5000K, 5700K, 6500K when above 262 mA per LED		
Energy Class	C	B	B
Operating Temperature	-30°C + +60°C		
Tc max.	85°C		
Lifetime*/Tc life	>102000 h 85°C, 368 mA		

* Lifetime of LEDs as declared by the manufacturer [CREE LED®](#) according to [IES LM-80-2015 Testing Results Revision:32 :2025](#).
 ** Source performance in real-life conditions at T=55°C; the tolerance of source lumen output is 10% - tested without heatsink.
 *** External heatsink required.
 **** According to [Eye safety Cree document](#)

➤ **FEATURES**

Application:

- ❖ Decorative lighting
- ❖ Accent lighting
- ❖ Task lighting
- ❖ General lighting
- ❖ Recessed furniture LED spotlight

Feature:

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

EPREL Database link
QR Code

2700K



2639396

3000K



2639399

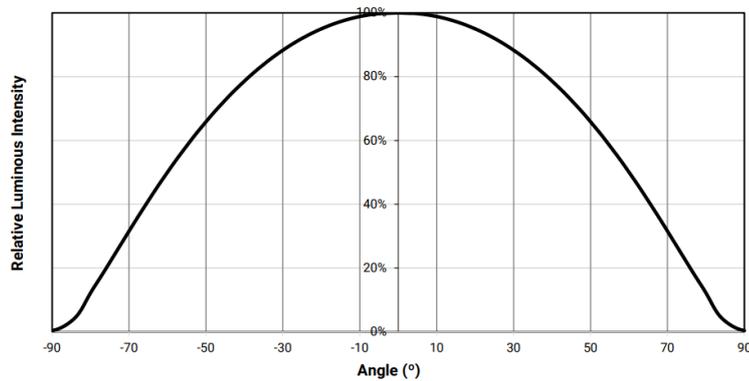
4000K



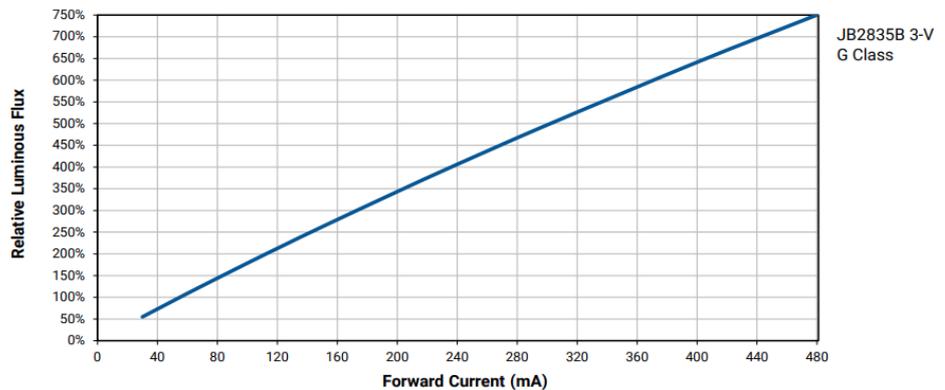
2639403



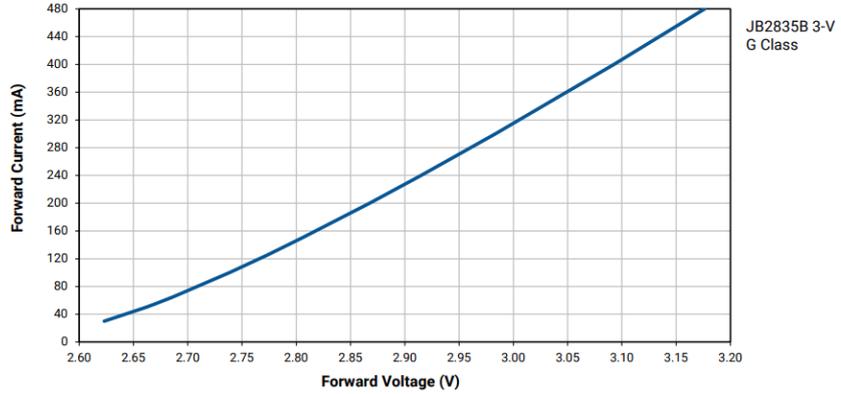
➤ **TYPICAL SPATIAL DISTRIBUTION**



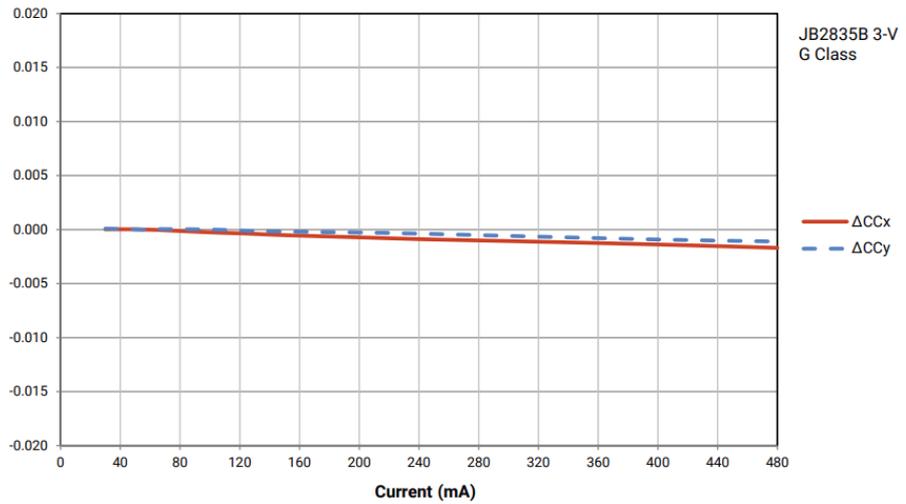
➤ **RELATIVE LUMINOUS FLUX VS. CURRENT**



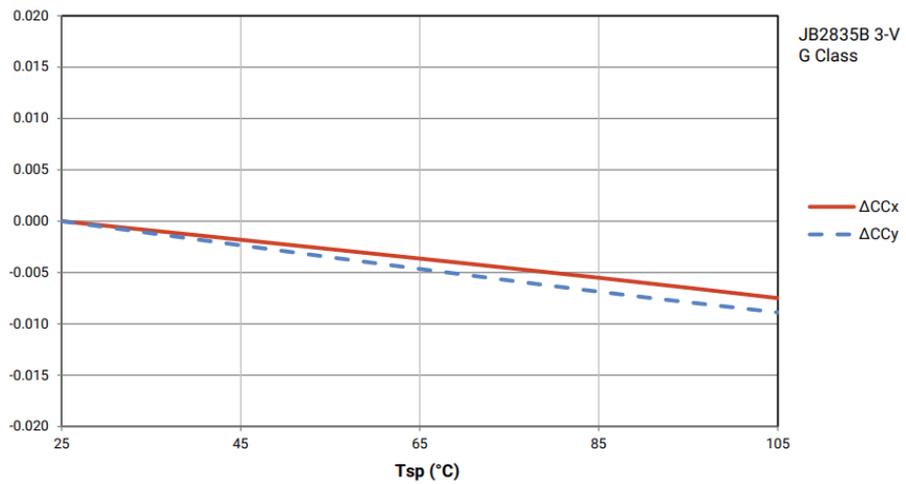
➤ **FORWARD VOLTAGE VS. FORWARD CURRENT**



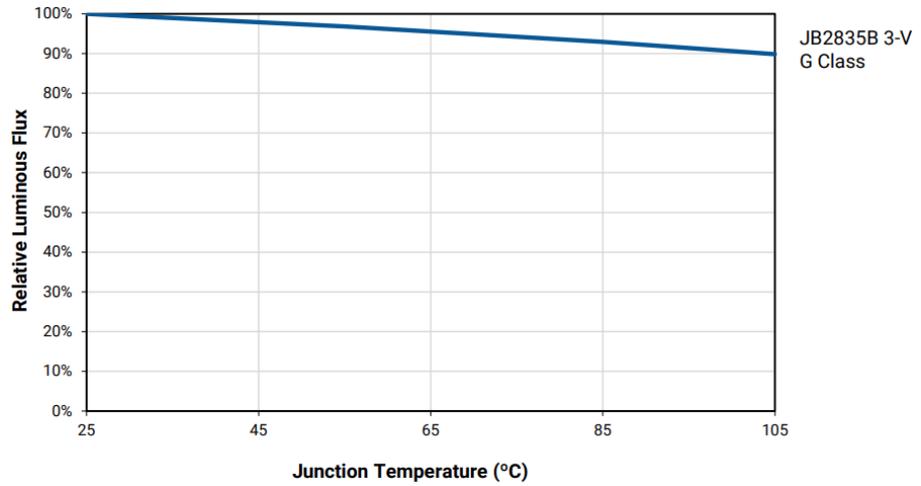
➤ **RELATIVE CHROMATICITY VS. CURRENT**



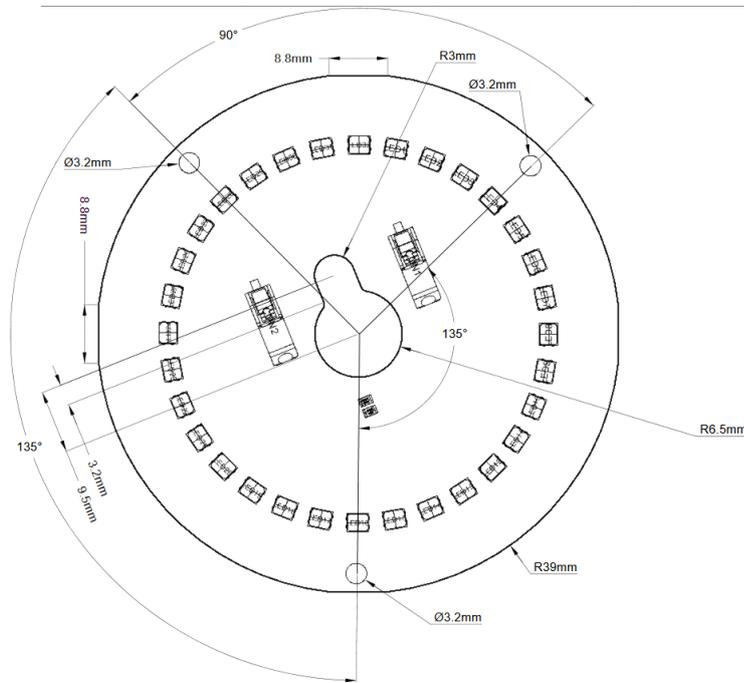
➤ **RELATIVE CHROMATICITY VS. TEMPERATURE**



➤ **RELATIVE LUMINOUS FLUX VS. JUNCTION TEMPERATURE**



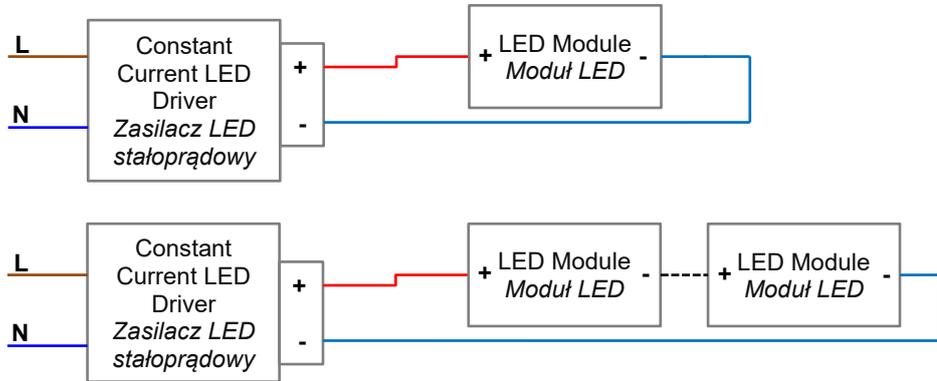
➤ **DIMENSIONS**



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

MECHANICAL SPECIFICATION	
Dimensions	78X78 mm
Board Thickness	1.6 mm
Board Material	MCPCB, 1.3W/(m²K), white soldermask
Shape	Circular

➤ ELECTRICAL INSTALLATION



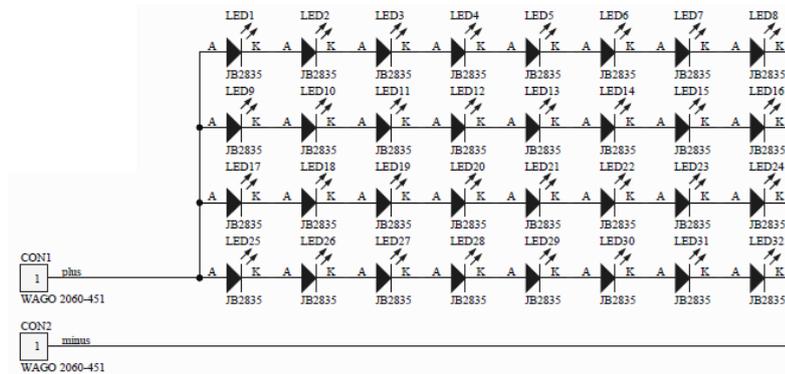
➤ ORDERING CODE

ORDERING CODE / ARTICLE CODE	DESCRIPTION
MOD-NRL-32CW-7878S-M159CC-DK210704-2700K-V3	Moduł MCPCB Niviss, CREE JB2835, 2700K, G class, CRI 80, 3-step, WAGO 1PIN 2060-451, RoHS
MOD-NRL-32CW-7878S-M159CC-DK210704-3000K-V3	Moduł MCPCB Niviss, CREE JB2835, 3000K, G class, CRI 80, 3-step, WAGO 1PIN 2060-451, RoHS
MOD-NRL-32CW-7878S-M159CC-DK210704-4000K-V3	Moduł MCPCB Niviss, CREE JB2835, 4000K, G class, CRI 80, 3-step, WAGO 1PIN 2060-451, RoHS

➤ COMMERCIAL INFORMATION

COMMERCIAL INFORMATION	
Minimum Order Quantity	32 pcs.
Warranty	5 years

➤ ELECTRICAL SCHEMA



➤ **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 JB2835 SERIES[®]](#)
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 form 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 \(CE\)](#)