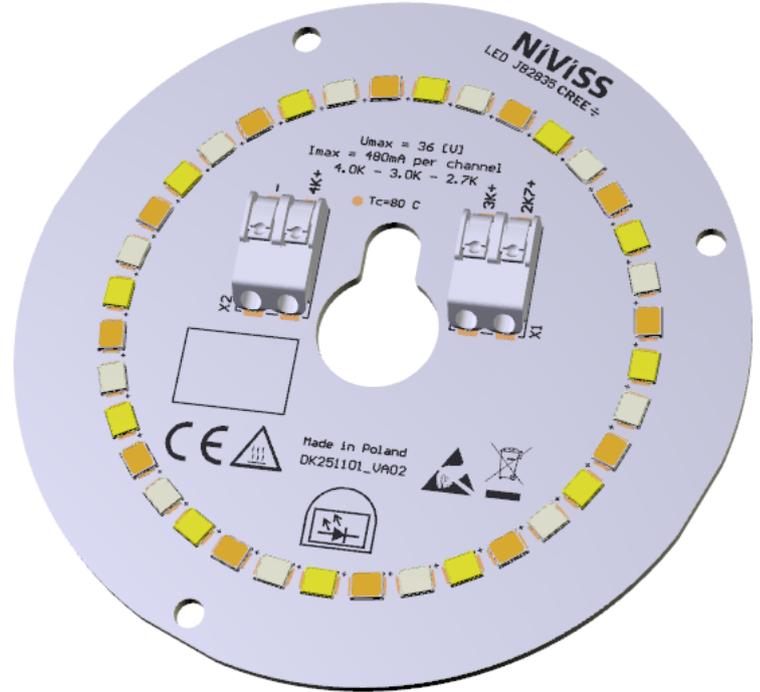


Made in Poland

LED Module MOD-NRL-36CW is constant current LED module based on the CREE LED® J Series® 2835 optimized for cost effective and high efficacy. The Module uses three distinct colour temperature LED groups to improve colour quality and enable precise light tuning.

- Luminous Flux up to **2738 lm**.
- LM-80 lifetime projections (IEC 62717) **> 100,000 (L70)¹**.
- Quick and effective heat dissipation due to the using MCPCB 1.6 mm Lead Free HASL.
- EPREL registered product.
- CCT mix: 2700K / 3000K / 4000K
- Available customizable parameters.



➤ SPECIFICATION

LED FAMILY	CREE JB2835B 3-V G Class		
CCT/SDCM	2700K 3-STEP	3000K 3-STEP	4000K 3-STEP
Viewing Angle	120°		
Nominal Module Lumen Output ²	1895 lm	1966 lm	2090 lm
Nominal Efficacy ²	150 lm/W	156 lm/W	166 lm/W
CRI	80		
Nominal Driving Current	350 mA / colour		
Voltage DC (typ.) ²	36 V / colour		
Power Consumption ²	12.6 W / colour		
Max. LED module working current³	480 mA / colour		
Voltage DC (max)³	37.7 V / colour		
Max power³	18.1 W / colour		
Max. LED module lumen output³	2482 lm	2576 lm	2738 lm
Number of LEDs	12 / colour		
Power Supply Type	Constant Current		
Risk Group Classification ⁴	RG-1 Low Risk		
Energy Class	D	D	C
Operating Temperature	-30°C + +60°C		
Tc max.	85°C		
Lifetime ¹ /Tc life	>102 000 h @ 85°C, 350 mA,		

¹ Lifetime of LEDs as declared by the manufacturer [CREE LED®](#) according to [IES LM-80-2015 Testing Results Revision:34 :2025](#).
² Source performance in real-life conditions at Tc=55°C, 350 mA without heatsink.
³ External heatsink required.
⁴ According to [Eye safety Cree document](#)

➤ FEATURES

Application:

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

Features:

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

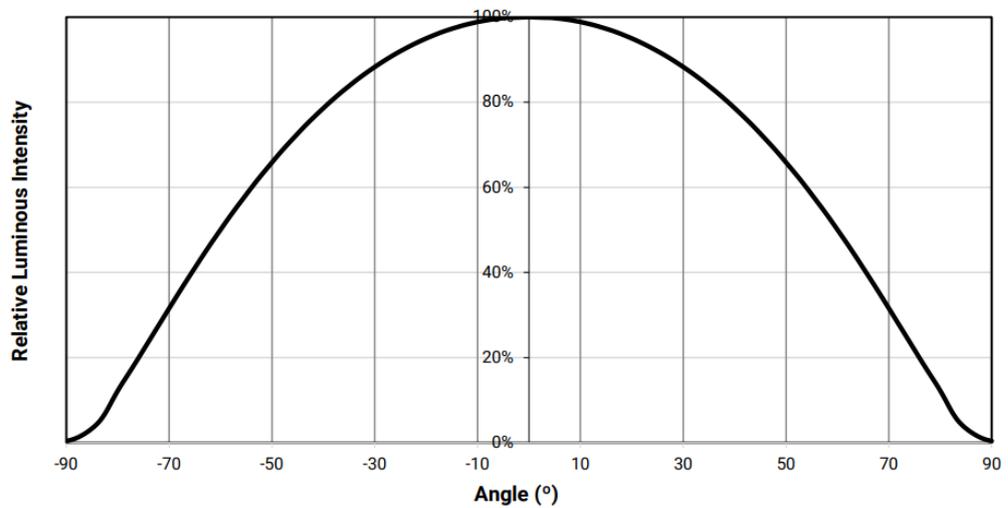
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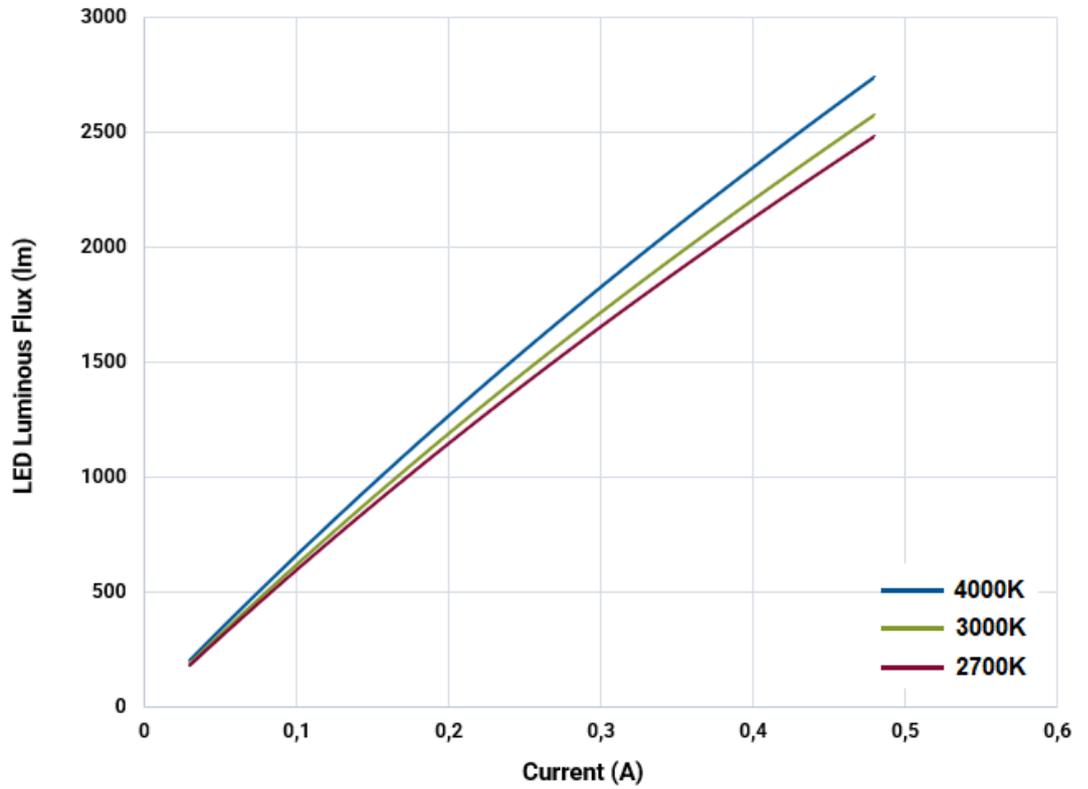
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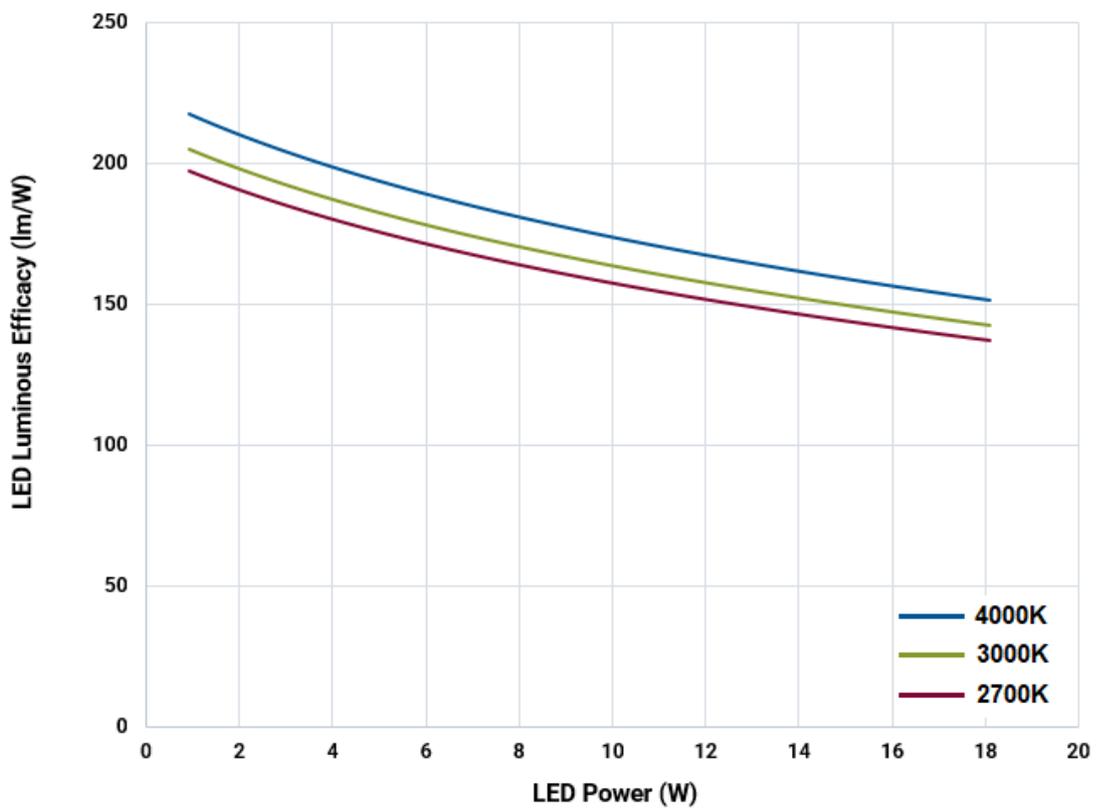
➤ TYPICAL SPATIAL DISTRIBUTION



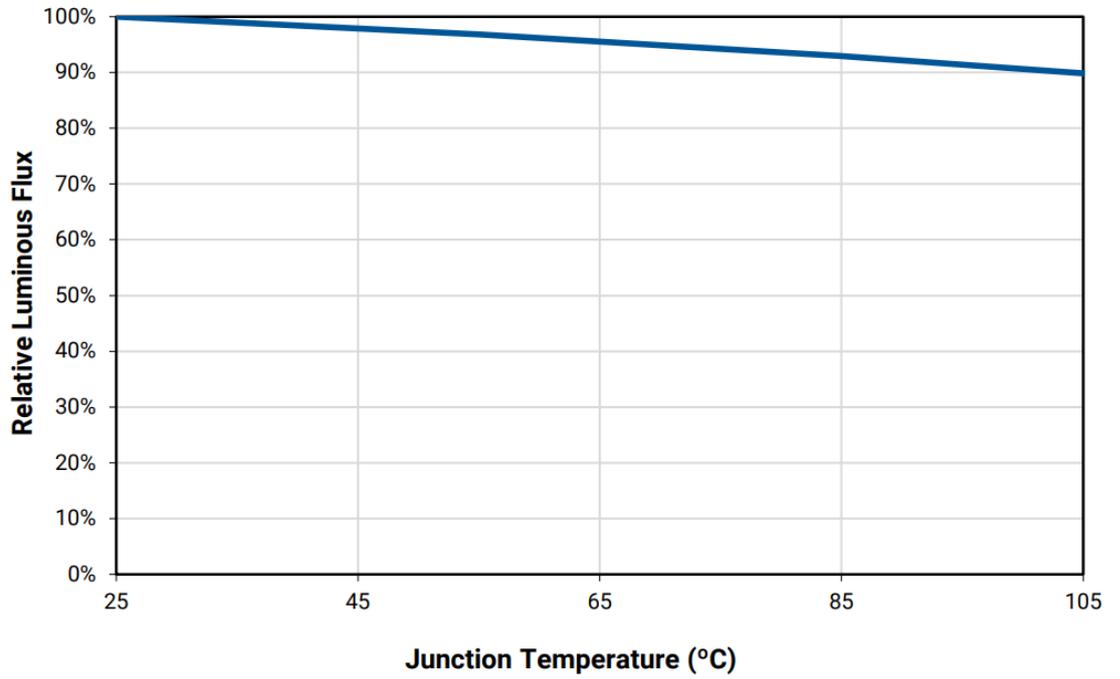
➤ LUMINOUS FLUX
VS.
FORWARD
CURRENT



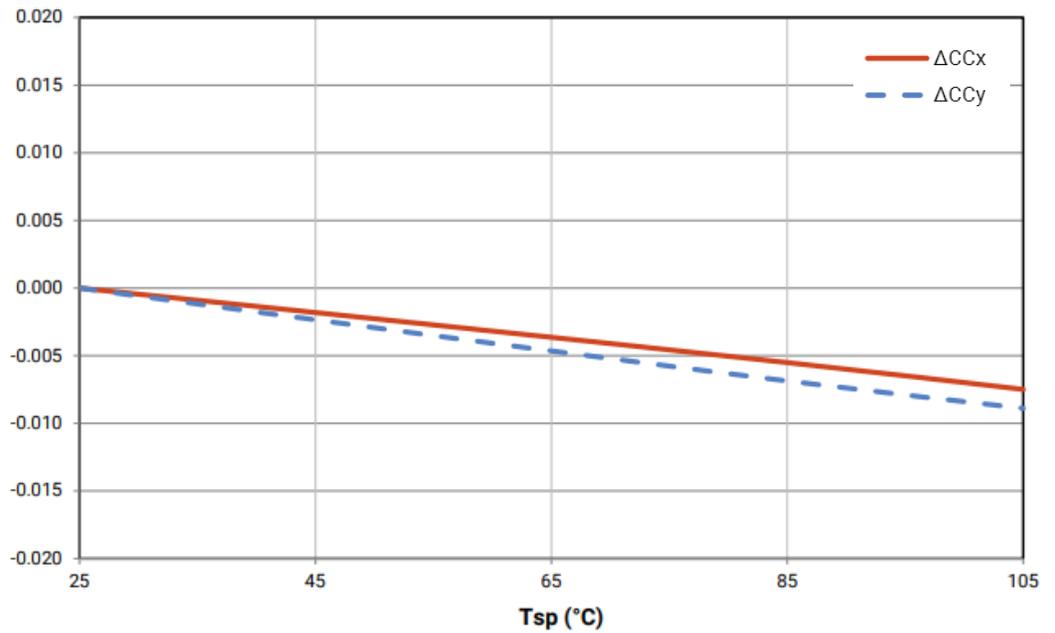
➤ LUMINOUS
EFFICACY
VS.
MODULE LED
POWER



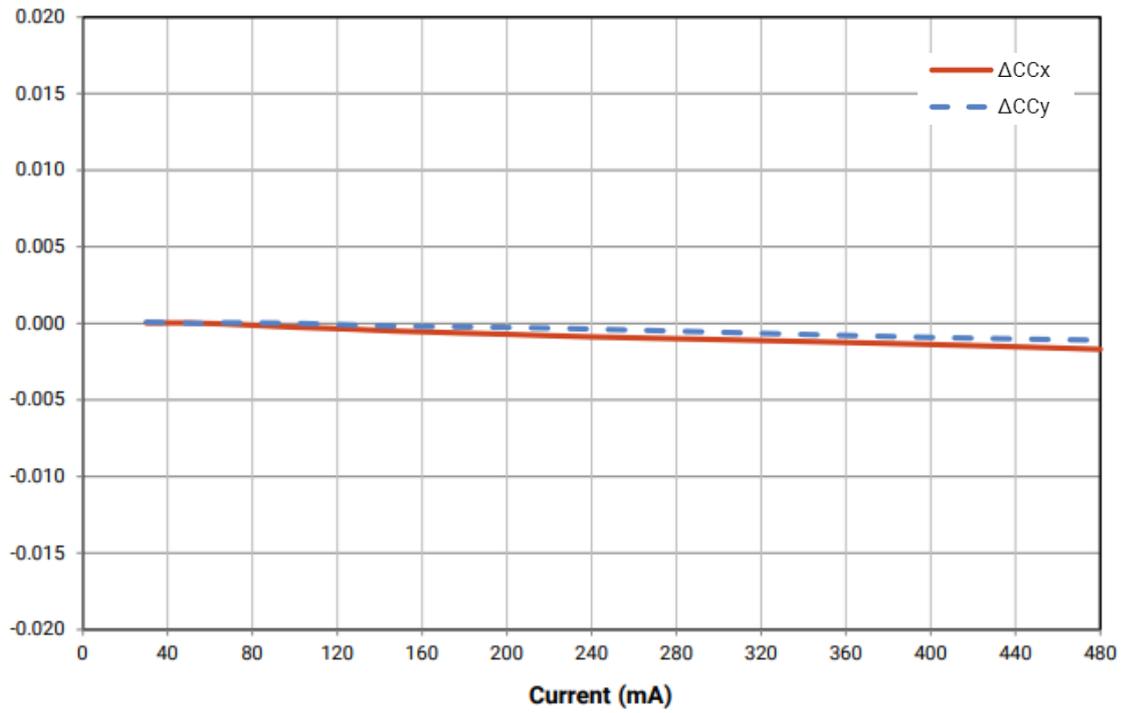
➤ RELATIVE LUMINOUS FLUX VS. JUNCTION TEMPERATURE



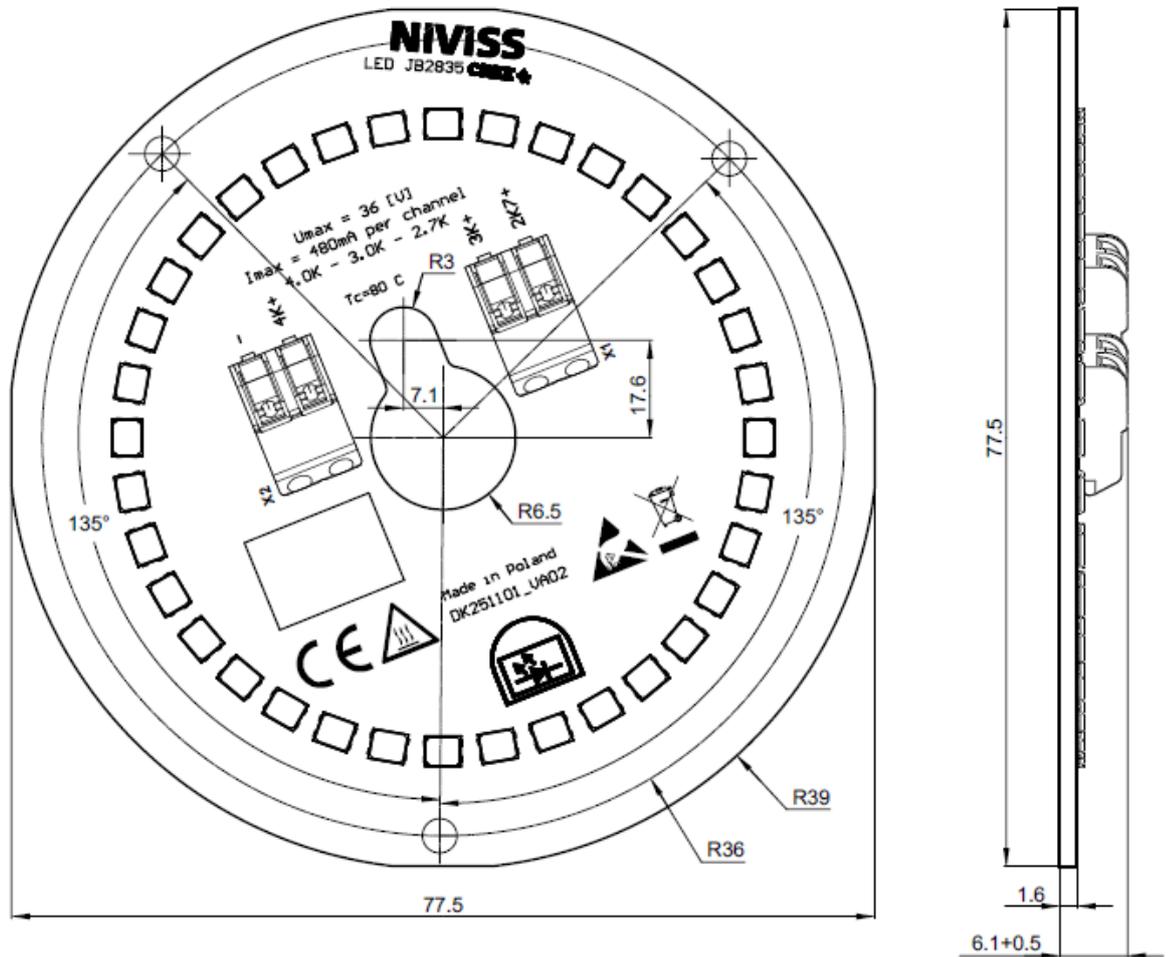
➤ RELATIVE CHROMATICITY VS. TEMPERATURE



➤ RELATIVE CHROMATICITY VS. CURRENT



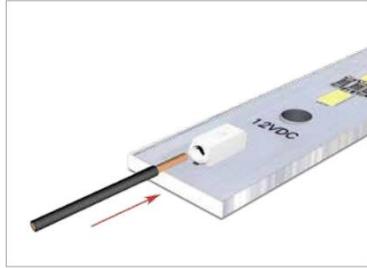
➤ DIMENSIONS



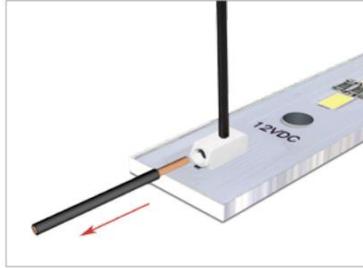
Notes:
Drawing is not to scale.
All dimensions are in millimeters.

MECHANICAL SPECIFICATION	
Dimensions	Ø 78 mm
Board Thickness	1.6 mm
Board Material	MCPCB, 3003 Alloy, 1.3W/(m*K); white soldermask
Shape	Circular

➤ **CONNECTION**



Inserting solid conductors via push-in termination.

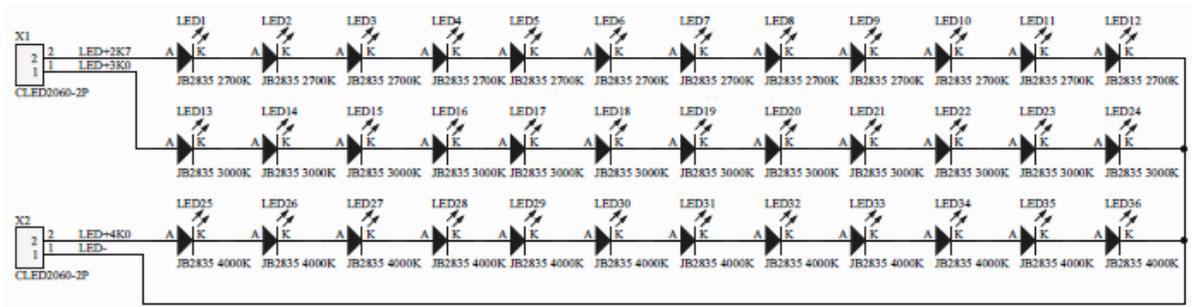


Easy conductor removal, e.g., via 206-859 operating tool.

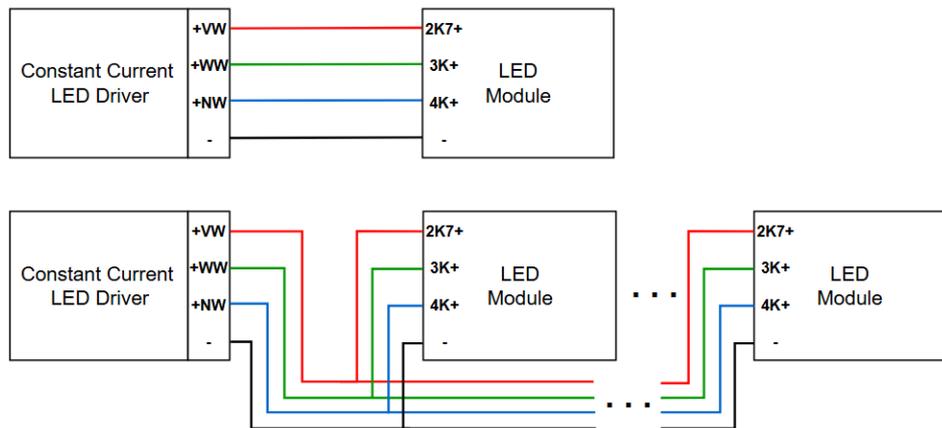


Wire connection: solid conductors up to 0.75 mm² / 18 AWG

➤ **ELECTRICAL SCHEMA**



➤ **ELECTRICAL INSTALLATION**



➤ **ORDERING CODE**

ORDERING CODE / ARTICLE CODE	DESCRIPTION
MOD-NRL-36CW-DK251101-2K7-3K0-4K0-VA02	Led Module High Efficacy, 36 LED JB2835B, 2700K, 3000K, 4000K, CRI 80, fi 78 mm, 36V
Customer Modules on request	

➤ **COMMERCIAL INFORMATION**

COMMERCIAL INFORMATION	
Connector	WAGO 2060
Available Lenses	no
Minimum Order Quantity	40 pcs.
Warranty	2 years
Power Supply	CC17W150-350CG CCT Triac

➤ **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 \(CE\)](#)