

48RW_280X20SP_1FT-Z6_48LV family are LED modules based on the CREE LED® J Series® 2835 optimized for cost effective and high efficacy applications. 48RW_280X20SP_1FT-Z6_48LV modules are providing optimized and easy integration, with excellent quality, reliability and precision.

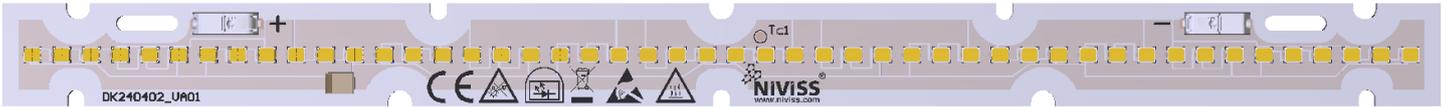
High efficacy **207 lm/W** and up to **10950 lm**.

LM-80 lifetime projections (IEC 62717)
> 100,000 (L70B10)*



Possibility to connect up to 6 modules in series per chain.

EPREL registered product.



➤ SPECIFICATION

LED FAMILY	JB2835 G-class	
CCT/SDCM	3000K 3-STEP	4000K 3-STEP
Viewing Angle	120°	
Nominal Module Lumen Output*	2000 lm	2130 lm
Nominal Efficacy	195 lm/W	207 lm/W
CRI	80 (90 available)	
Nominal Driving Current	240 mA	
Voltage DC (typ.)	42,9 V	
Power Consumption (W)	10,3 W	
Max. LED module working current **	1,44 A / module	
Max. LED module lumen output	10305 lm	10950 lm
Number of LEDs	48	
Power Supply Type	Constant Current	
Risk Group Classification	RG-1 Low Risk	
Energy Class	B	B
Operating Temperature	-30°C ÷ +60°C	
Tc max.	105°C	
Lifetime***/Tc life	>102000 h 55°C, 240 mA,	

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

➤ FEATURES

Application:

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

Feature:

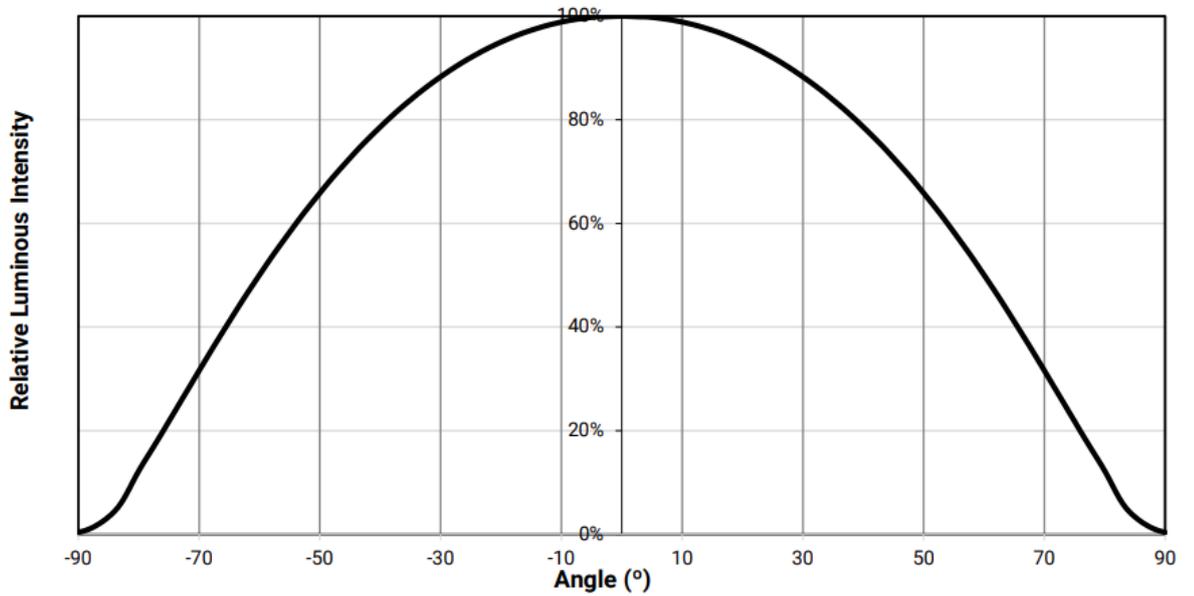
- ❖ The module is dimmable by current set (0-100%)
- ❖ Long Lifetime
- ❖ Energy Saving

EPREL Database link

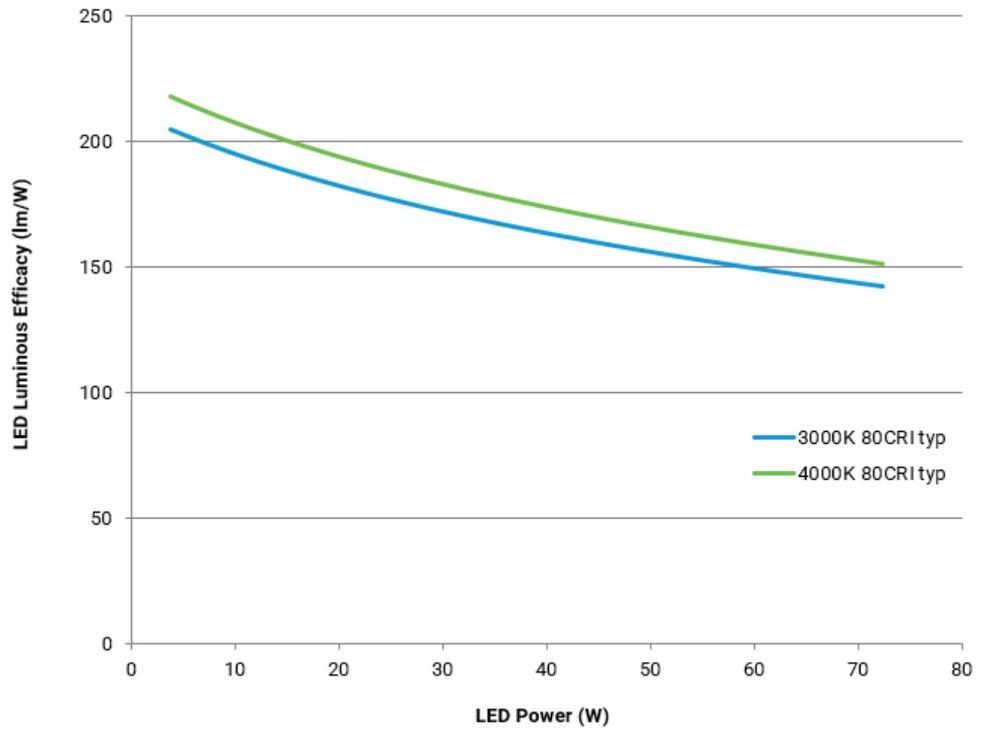
QR CODE



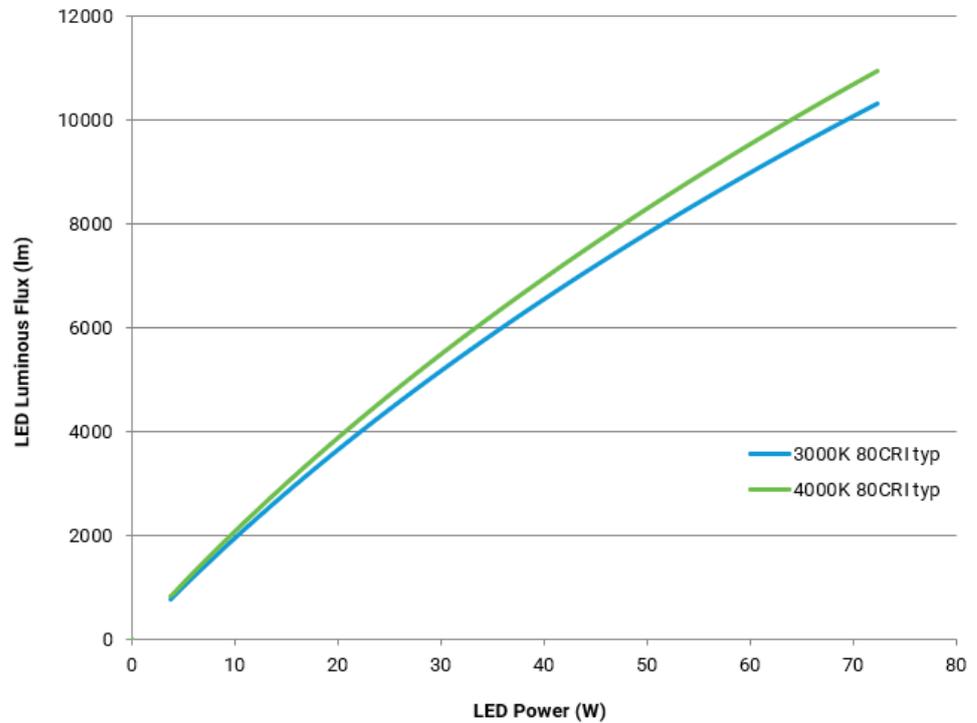
➤ TYPICAL SPATIAL DISTRIBUTION



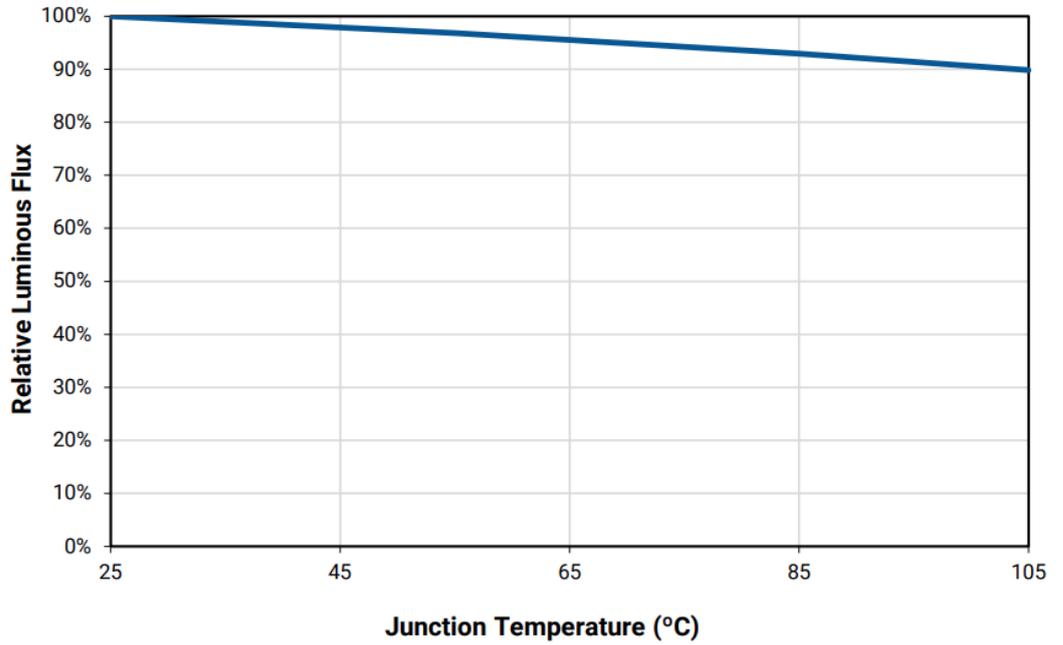
➤ LUMINOUS EFFICACY VS. POWER



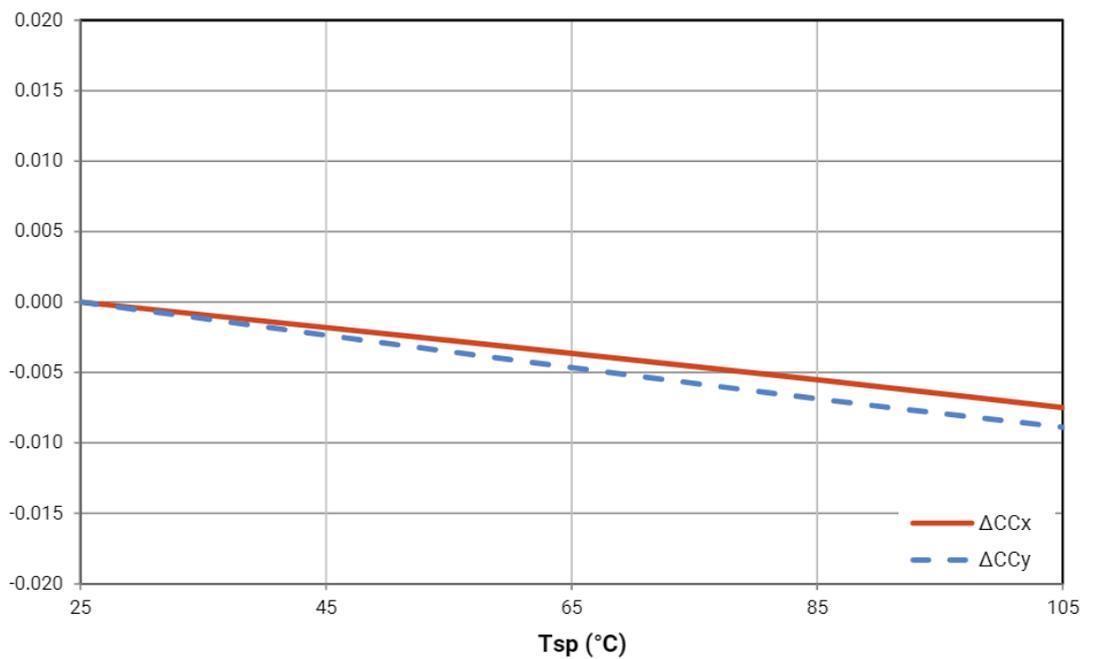
➤ LUMINOUS FLUX VS. POWER



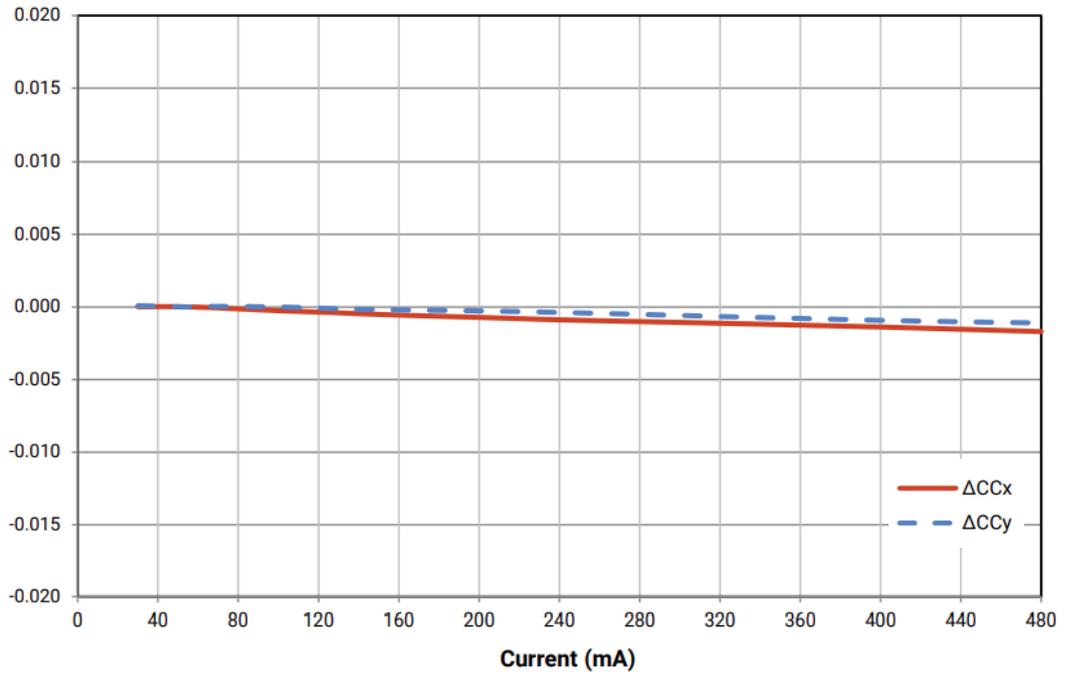
➤ LUMINOUS FLUX
VS.
JUNCTION
TEMPERATURE



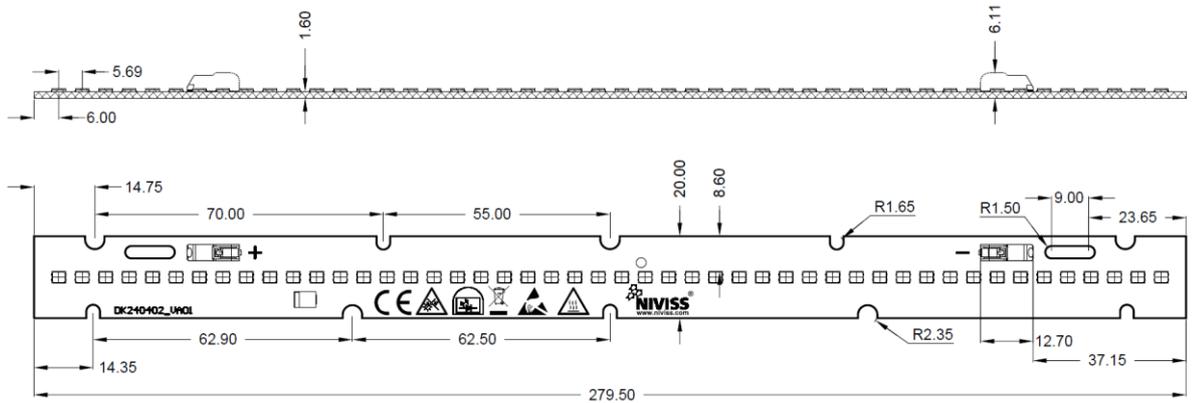
➤ RELATIVE
CHROMATICITY
VS.
TEMPERATURE



➤ RELATIVE CHROMATICITY VS. CURRENT



➤ DIMENSIONS



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

MECHANICAL SPECIFICATION	
Dimensions	279.5 x 20 mm
Board Thickness	1.6 mm
Board Material	MCPCB; white soldermask
Shape	Rectangular

➤ **CONNECTION**



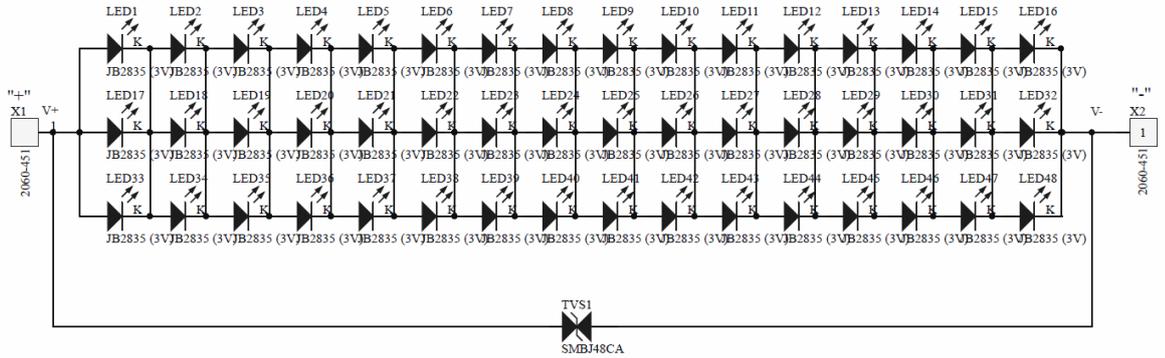
Inserting solid conductors via push-in termination.



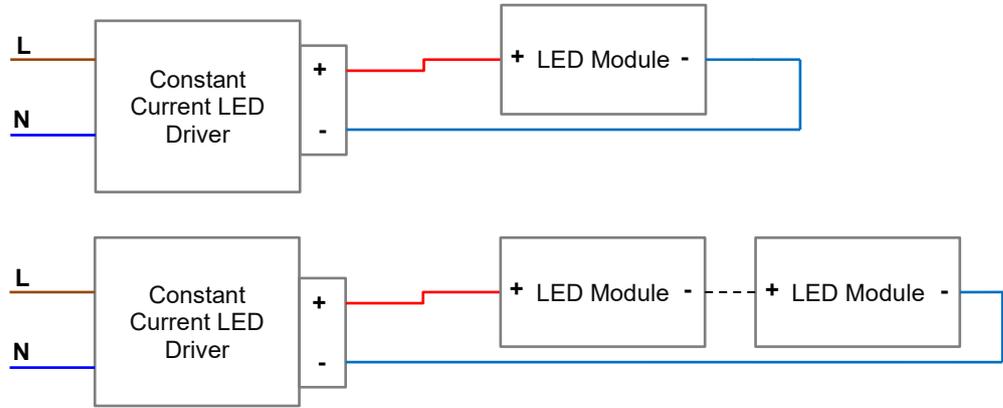
Inserting/removing fine-stranded conductors by lightly pressing on push-button (e.g., using a 206-860 operating tool).



➤ **ELECTRICAL SCHEMA**



➤ **ELECTRICAL INSTALLATION**



➤ **ORDERING CODE**

ORDERING CODE / ARTICLE CODE	DESCRIPTION
MOD-48R280X20-JB2835B-3080-VA01	LED Module; High Efficacy; 279,5x20mm; 48 LED 2835 G class 3V; 3000K; CRI 80; VA01
MOD-48R280X20-JB2835B-4080-VA01	LED Module; High Efficacy; 279,5x20mm; 48 LED 2835 G class 3V; 4000K; CRI 80; VA01

➤ **COMMERCIAL INFORMATION**

COMMERCIAL INFORMATION	
Connector	WAGO 2060-451
Available Lenses	No
Minimum Order Quantity	10 pcs.
Warranty	3 years

➤ **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 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 \(CE\)](#)