

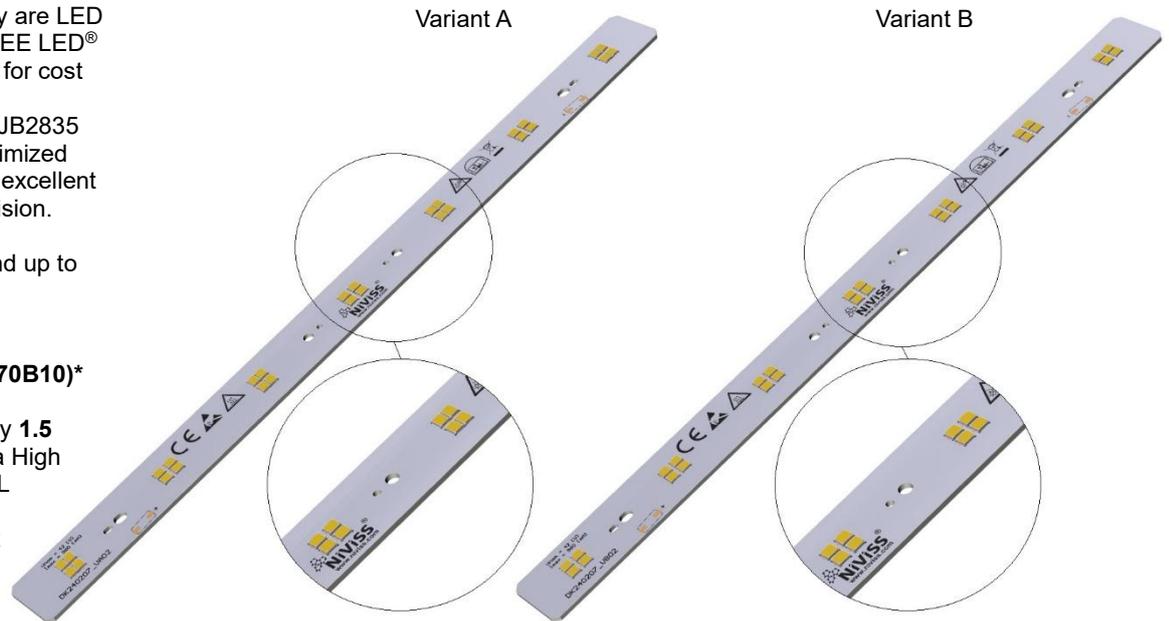
28R274X20-JB2835 family are LED modules based on the CREE LED® J_Series® 2835 optimized for cost effective and high efficacy applications. 28R274X20-JB2835 modules are providing optimized and easy integration, with excellent quality, reliability and precision.

High efficacy **216 lm/W** and up to **6390 lm**.

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

MPCB thermal conductivity **1.5 W/mk** based in UHT (Ultra High Thermal), Lead Free HASL

EPREL registered product



➤ SPECIFICATION

LED FAMILY	SERIES 2835	
CCT/SDCM	3000K 3-STEP	4000K 3-STEP
Viewing Angle	120°	
Nominal Module Lumen Output**	3280 lm	3490 lm
Nominal Efficacy	170 lm/W	180 lm/W
CRI	80	
Voltage DC (typ.)	37 V	
Voltage DC (max)	43 V	
Power Consumption	19,5 W	
Max Module Lumen Output (960 mA)**	6010 lm	6390 lm
Max. LED module working current ***	960 mA / module	
Max power	42 W	
Number of LEDs	28	
Power Supply Type	Constant Current	
Risk Group Classification	RG-1 Low Risk	
Energy Class	C	
Operating Temperature	-30°C + +60°C	
Tc max.	85°C	
Lifetime*/Tc life	>102000 h 55°C, 250 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:

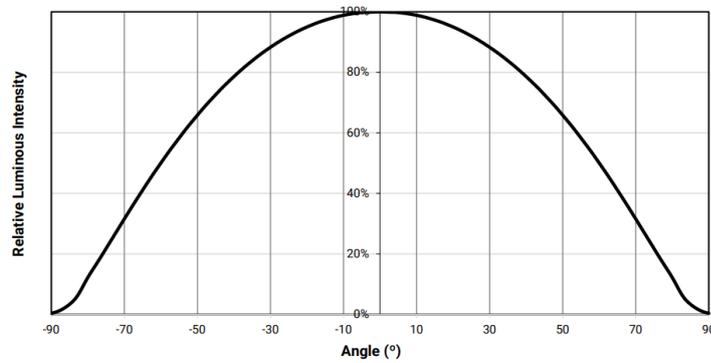
- ❖ The module is dimmable by current set (0-100%)
- ❖ Long Lifetime
- ❖ Energy Saving

EPREL Database link

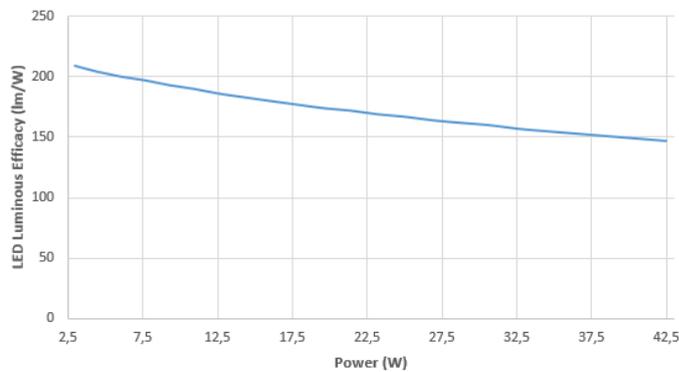
QR CODE



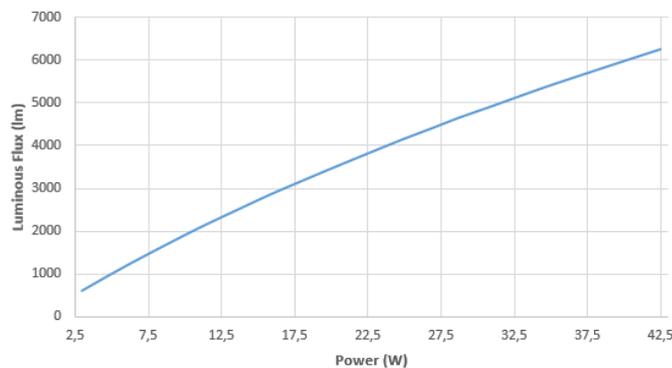
➤ **TYPICAL SPATIAL DISTRIBUTION**



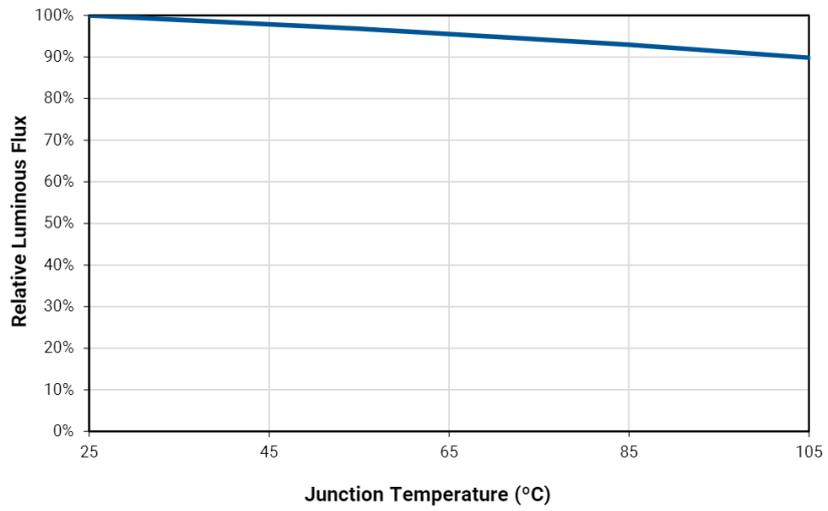
➤ **LUMINOUS EFFICACY VS. POWER**



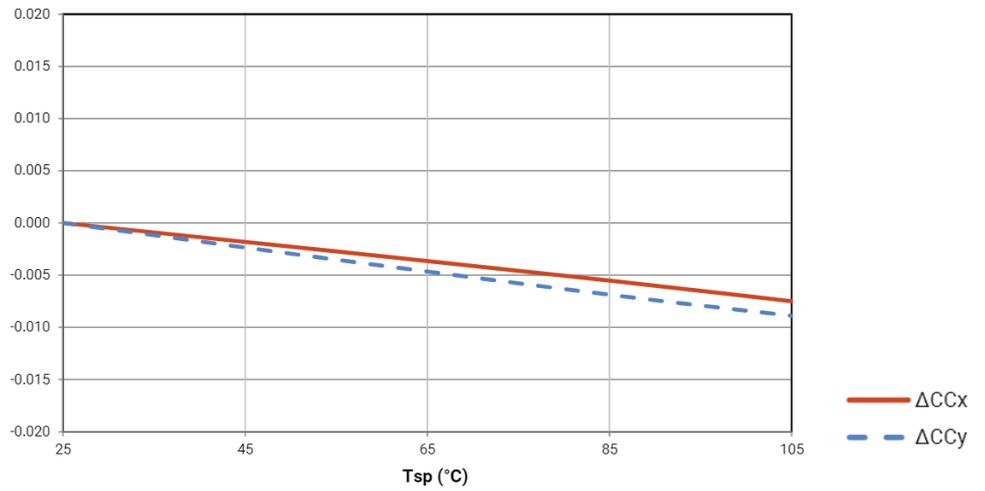
➤ **LUMINOUS FLUX VS. POWER**



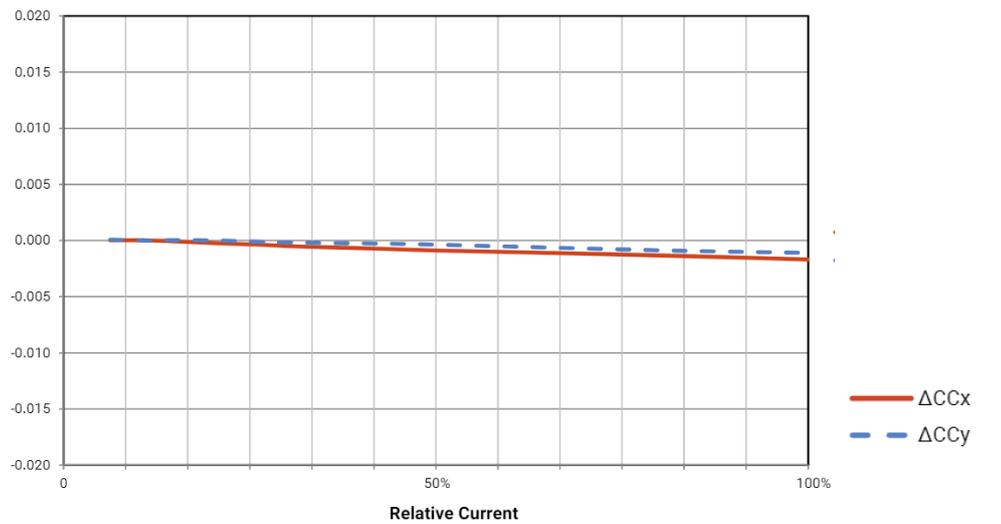
➤ LUMINOUS FLUX
VS.
JUNCTION
TEMPERATURE



➤ RELATIVE
CHROMATICITY
VS.
TEMPERATURE

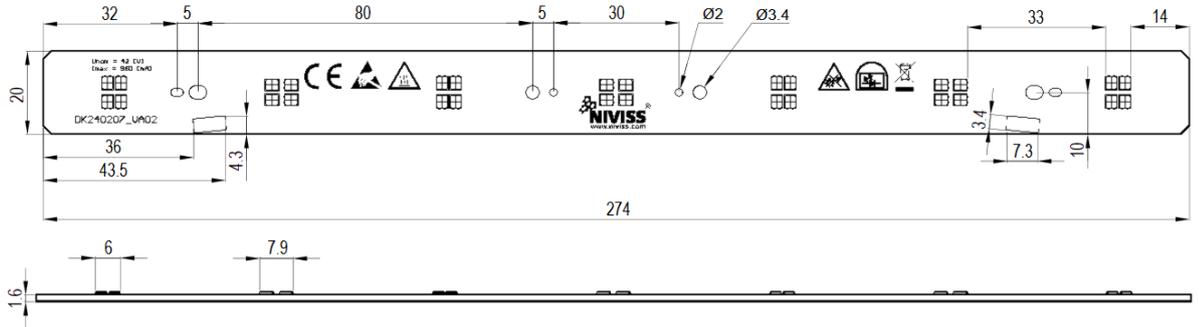


➤ RELATIVE
CHROMATICITY
VS.
CURRENT

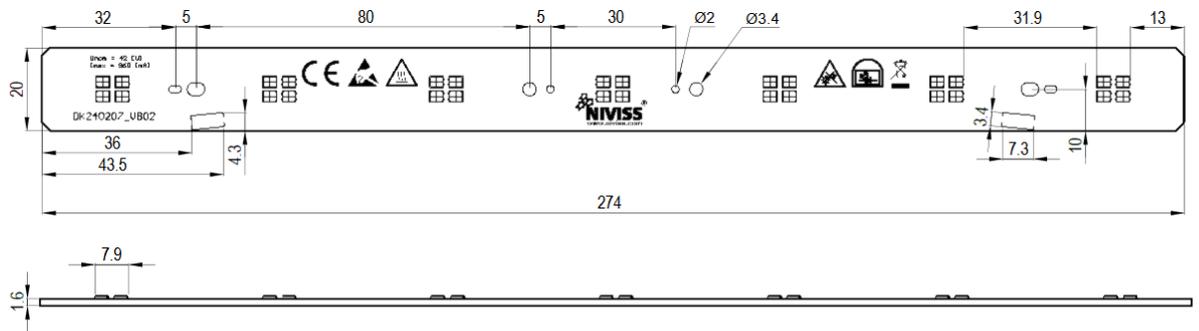


➤ DIMENSIONS

Variant A:



Variant B:



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

MECHANICAL SPECIFICATION	
Dimensions	274X20 mm
Board Thickness	1.6 mm
Board Material	MCPCB, 1060 Alloy, 1.5 W/(m*K), white soldermask
Shape	Rectangular

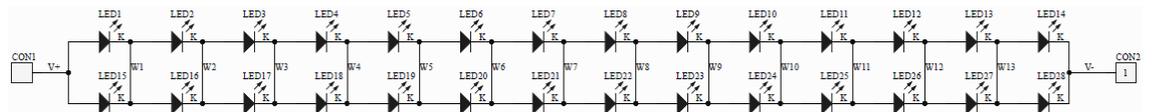
➤ CONNECTION



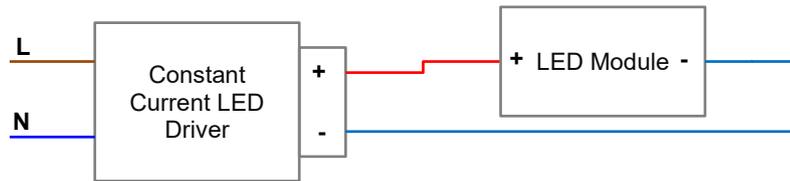
Inserting solid conductors via push-in termination.

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

➤ ELECTRICAL SCHEMA



➤ ELECTRICAL
INSTALLATION



➤ ORDERING CODE

ORDERING CODE / ARTICLE CODE	DESCRIPTION
MOD-28R274X20-JB2835B-3080-VA02	LED Module, High Efficacy, white soldermask, 28 LED, 274x20 mm, JB2835B, 3000K, CRI 80, 43V
MOD-28R274X20-JB2835B-4080-VA02	LED Module, High Efficacy, white soldermask 28 LED, 274x20 mm, JB2835B, 4000K, CRI 80, 43V
MOD-28R274X20-JB2835B-3080-VB02	LED Module, High Efficacy, white soldermask, 28 LED, 274x20 mm, JB2835B, 3000K, CRI 80, 43V
MOD-28R274X20-JB2835B-4080-VB02	LED Module, High Efficacy, white soldermask 28 LED, 274x20 mm, JB2835B, 4000K, CRI 80, 43V

➤ COMMERCIAL
INFORMATION

COMMERCIAL INFORMATION	
Connector	2059-301/998-402
Available Lenses	LEDIL DAISY 7X1
Minimum Order Quantity	10 pcs.
Warranty	2 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.