

160C254-JB2835 family are LED modules based on the CREE LED® J_Series® 2835 optimized for cost effective and high efficacy applications. 160C254-JB2835 modules are providing optimized and easy integration, with excellent quality, reliability and precision.

High efficacy **213 lm/W** and up to **34646 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**	2060.8 lm	2129.6 lm
Nominal Efficacy	208.0 lm/W	213.8 lm/W
CRI	80	
Nominal Driving Current	240 mA	
Voltage DC (typ.)	41.3 V	
Voltage DC (max)	52.8 V	
Power Consumption	9.9 W	
Max. LED module working current ***	4.8 A / module	
Max power	253.4 W	
Max. LED module lumen output	34350 lm	34646 lm
Number of LEDs	160	
Power Supply Type	Constant Current	
Risk Group Classification	RG-1 Low Risk	
Energy Class	A	
Operating Temperature	-30°C ÷ +60°C	
Tc max.	85°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

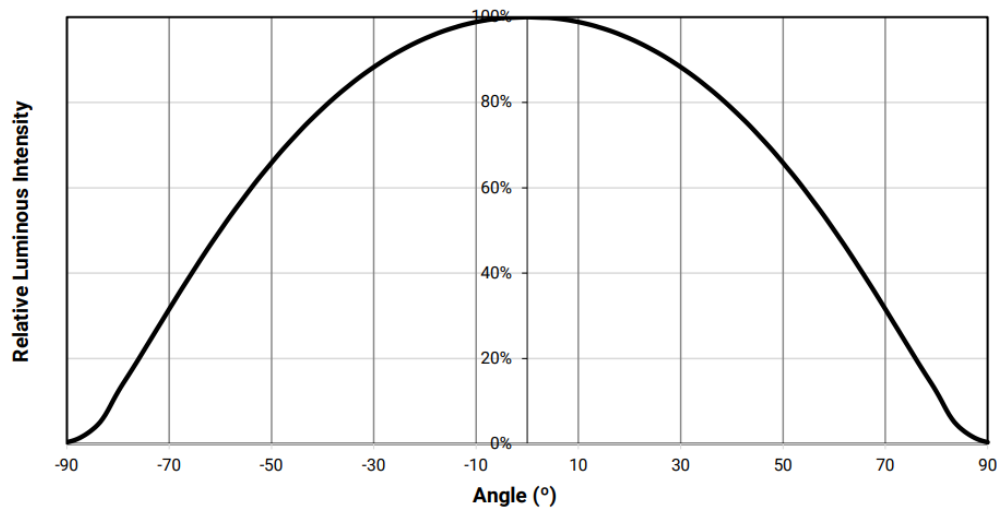
Feature:

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

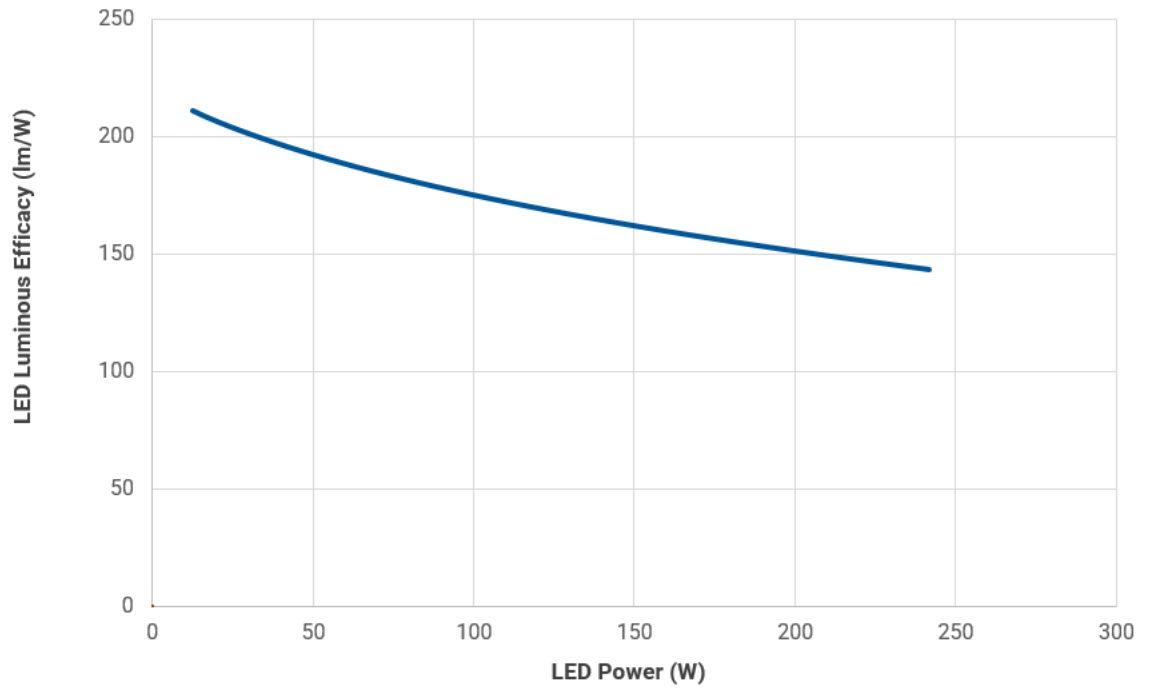
EPREL Database link
QR CODE



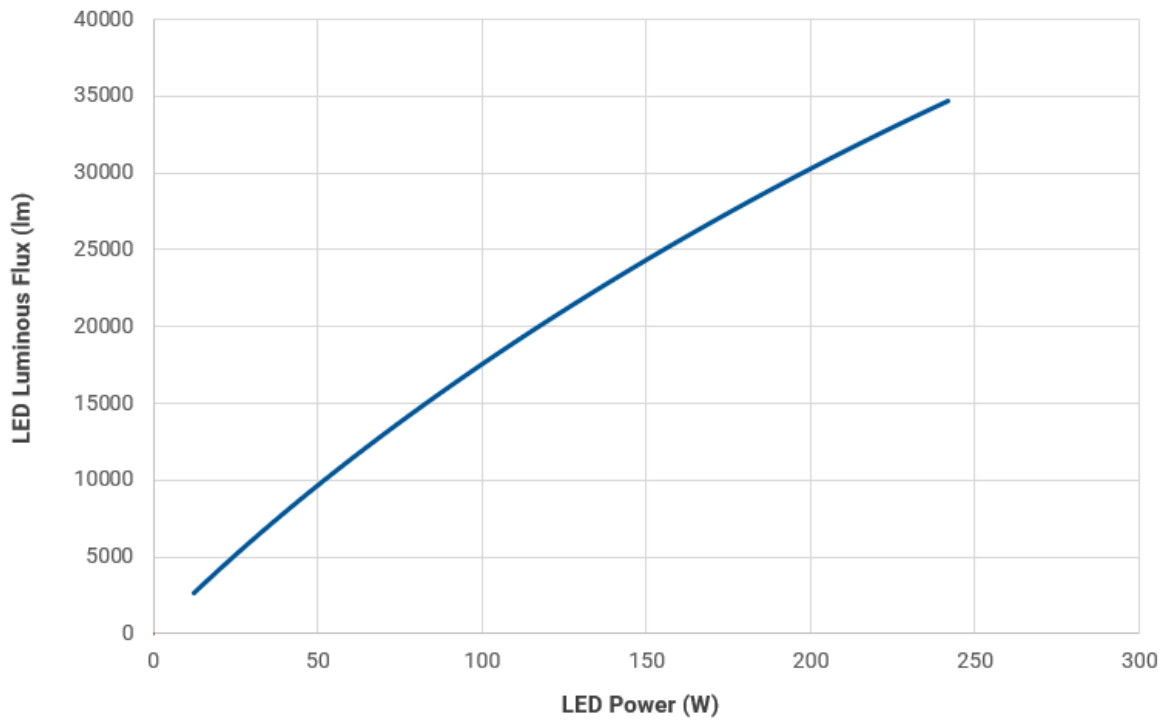
➤ **TYPICAL SPATIAL DISTRIBUTION**



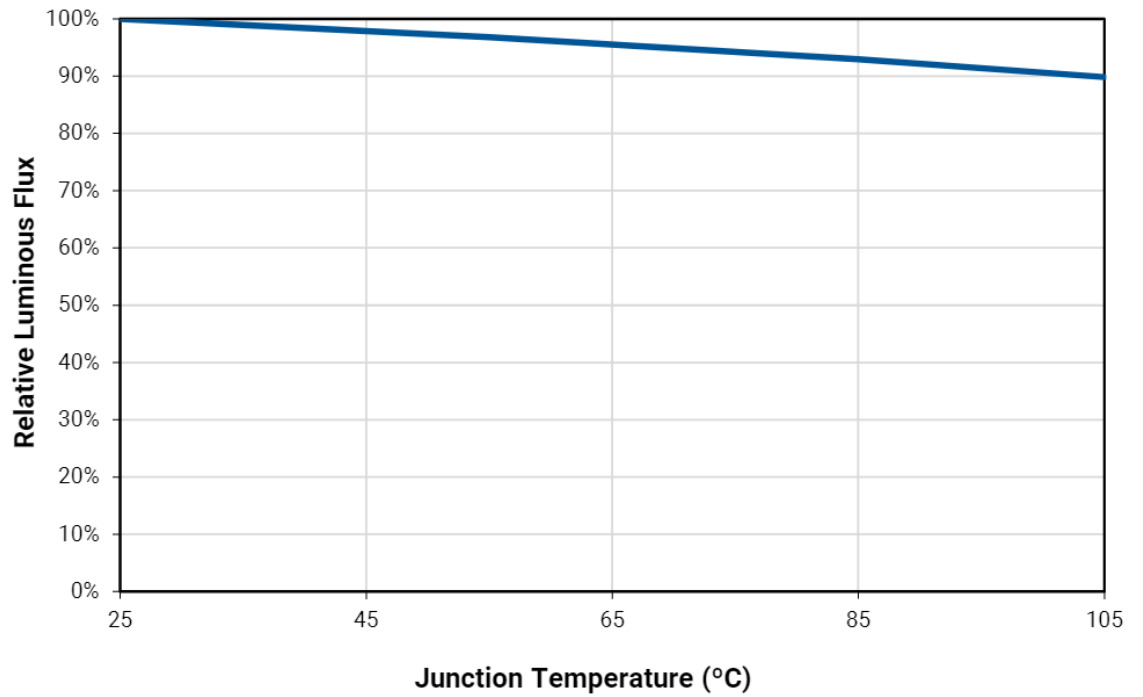
➤ **LUMINOUS EFFICACY VS. POWER**



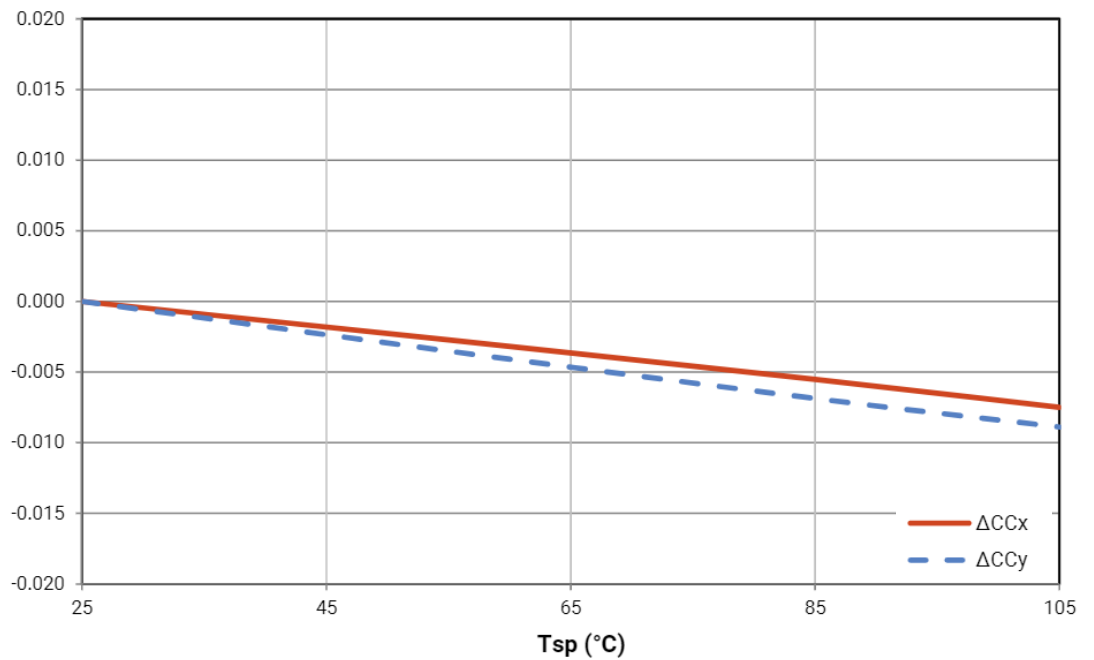
➤ **LUMINOUS FLUX VS. POWER**



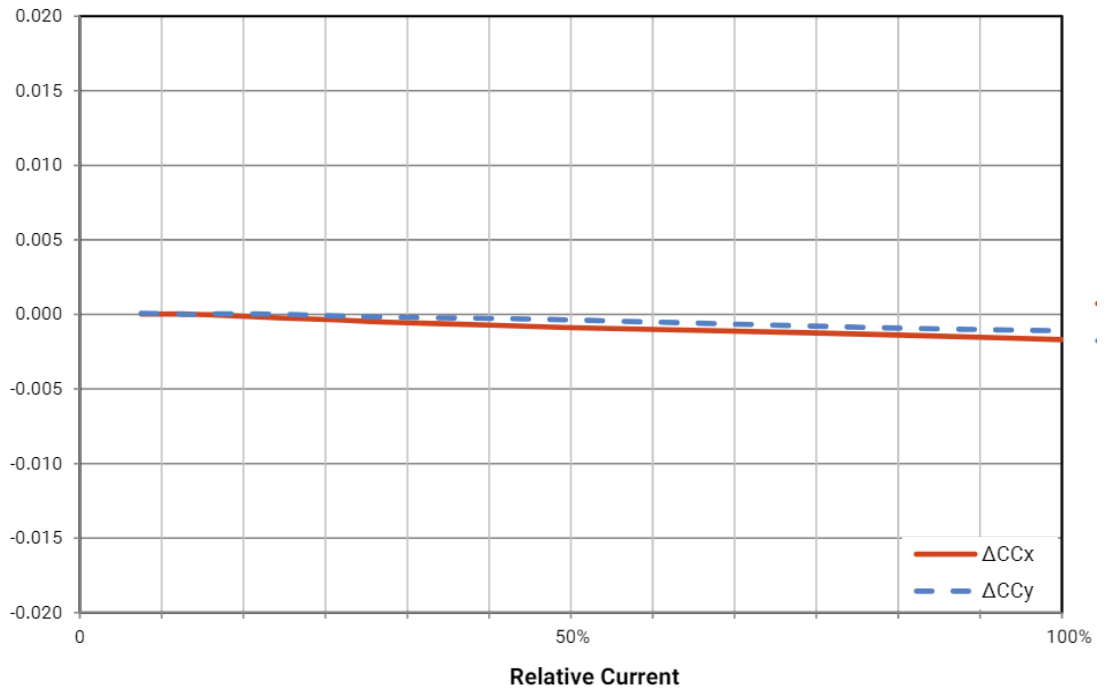
➤ LUMINOUS FLUX
VS.
JUNCTION
TEMPERATURE



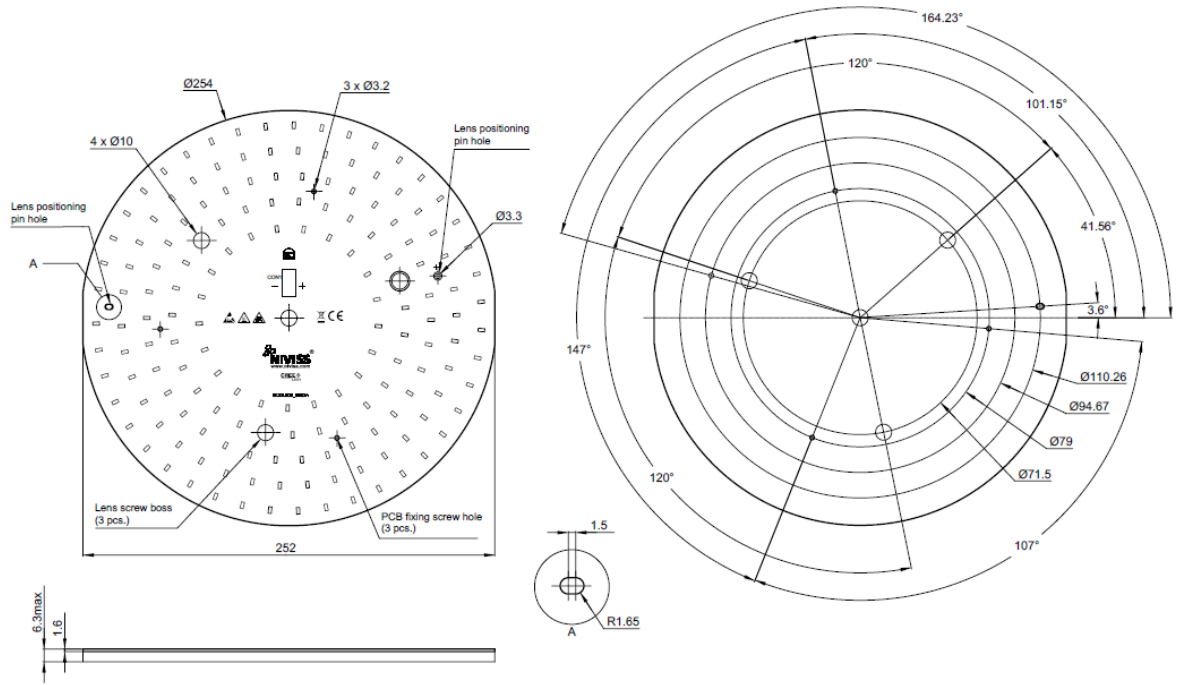
➤ RELATIVE
CHROMATICITY
VS.
TEMPERATURE



➤ **RELATIVE CHROMATICITY VS. CURRENT**



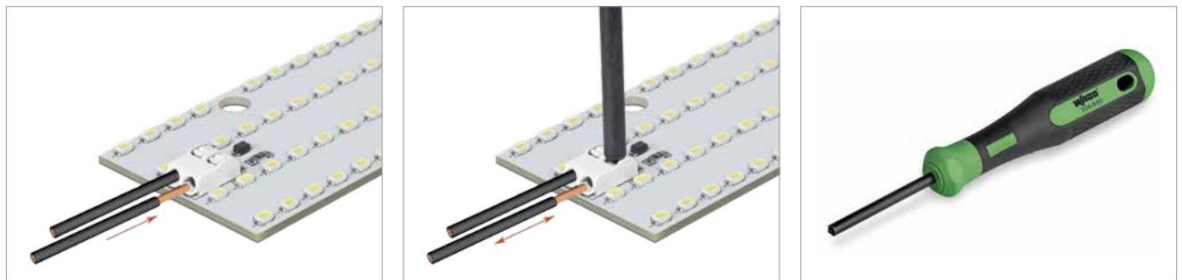
➤ DIMENSIONS



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

MECHANICAL SPECIFICATION	
Dimensions	Ø254 mm
Board Thickness	1.6 mm
Board Material	MPCPB, 1060 Alloy, 1.5 W/(m*K), white soldermask
Shape	Circular

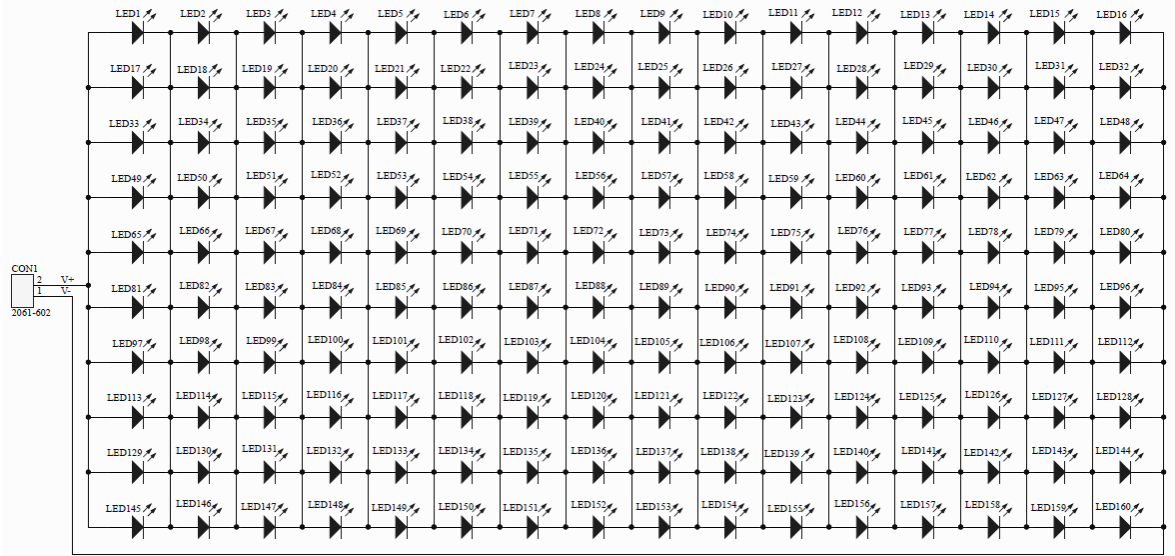
➤ CONNECTION



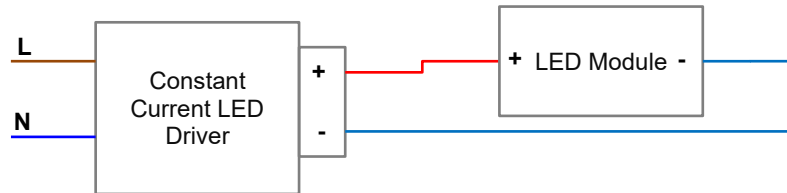
Inserting solid conductors via push-in termination.

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-160C254-JB2835B-3080-VB02	LED Module, High Efficacy, white soldermask, 160 LED, fi 254 mm, JB2835B, 3000K, CRI 80, 48V
MOD-160C254-JB2835B-4080-VB02	LED Module, High Efficacy, white soldermask 160 LED, fi 254 mm, JB2835B, 4000K, CRI 80, 48V

➤ COMMERCIAL INFORMATION

COMMERCIAL INFORMATION	
Connector	WAGO 2061
Available Lenses	LEDIL VICTORIA Ø300 mm
Minimum Order Quantity	5 pcs.
Warranty	2 years
Power Supply	HBG-160-48 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 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 \(CE\)](#)