CREE LED® High Efficacy
LED Modules 10C66-XEGA-RGBW family

DK230804

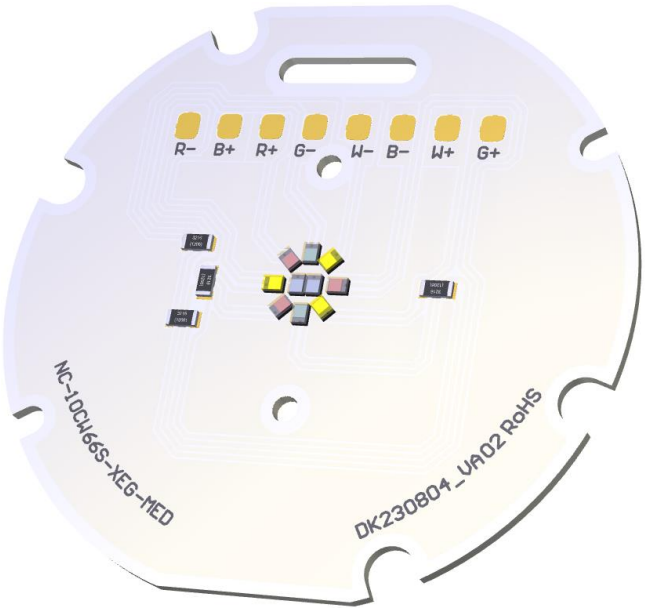
10C66-XEGA-RGBW family are LED modules based on the CREE LED® XE-G® optimized for cost effective and high efficacy applications. 10C66-XEGA-RGBW modules are providing optimized and easy integration, with excellent quality, reliability and precision.

High efficacy **125 lm/W** and up to **1845 lm**.

LM-80 lifetime projections (IEC 62717)
> 36,300 (L70B10)*

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

EPREL registered product



➢ SPECIFICATION

LED FAMILY / CHANNEL COLOUR	SERIES XE-G WHITE	RED	GREEN	BLUE
CCT/SDCM	3000K 3-STEP	620-630 nm	520-535 nm	465-485 nm
Viewing Angle	120°			
Nominal Module Lumen Output**	870 lm	325 lm	630 lm	150 lm
Nominal Efficacy	96 lm/W	46 lm/W	104 lm/W	25 lm/W
CRI	80	----		
Voltage DC (typ.)	9 V	7 V	6 V	6 V
Voltage DC (max)	10,5 V	9,5 V	6,6 V	7 V
Power Consumption	9 W	7 W	6 W	6 W
Max Module Lumen Output (3000 mA)**	1845 lm	595 lm	1160 lm	320 lm
Max. LED module working current ***	3000 mA / channel			
Max power	31,5 W	28,5 W	20 W	17,5 W
Number of LEDs	3		2	
Power Supply Type	Constant Current			
Risk Group Classification	RG-2 Moderate Risk			
Energy Class	F	-		
Operating Temperature	-30°C ÷ +60°C			
Tc max.	85°C			
Lifetime*/Tc life	>36300 h 85˚C, 1500 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.

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➢ FEATURES

Application:

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

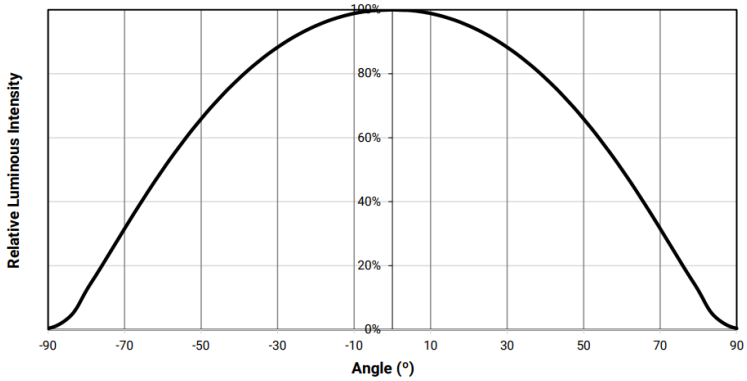
Feature:

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

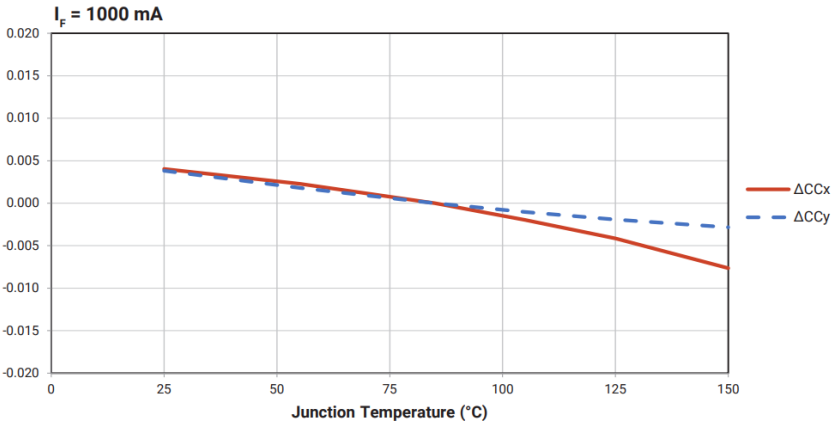
EPREL Database link
QR Code

3000K
2109073

➢ TYPICAL SPATIAL DISTRIBUTION



➢ RELATIVE CHROMATICITY VS. TEMPERATURE



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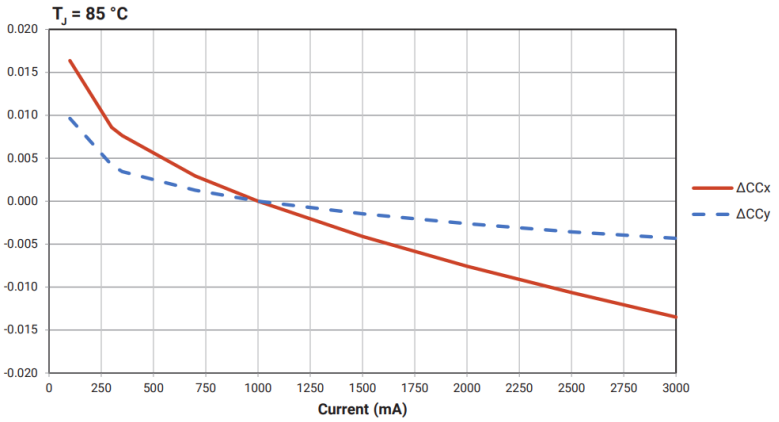
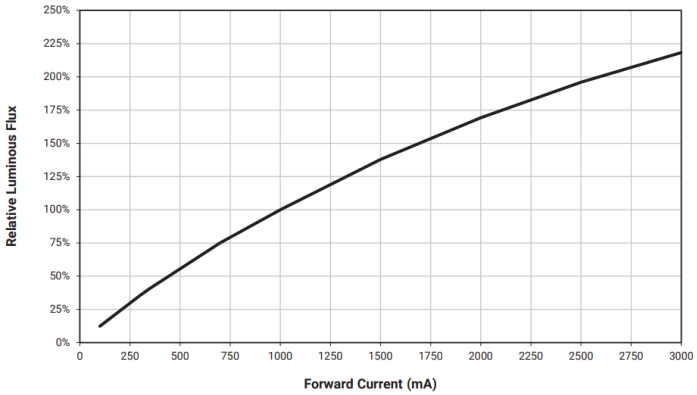
➢ **RELATIVE CHROMATICITY VS. CURRENT**

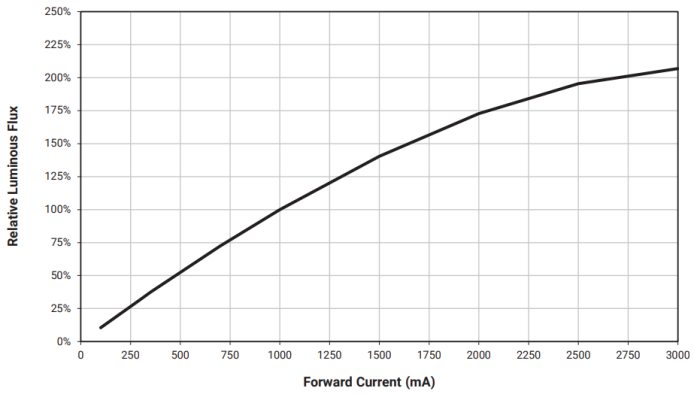


➢ **RELATIVE LUMINOUS FLUX VS. FORWARD CURRENT**

WHITE



RED



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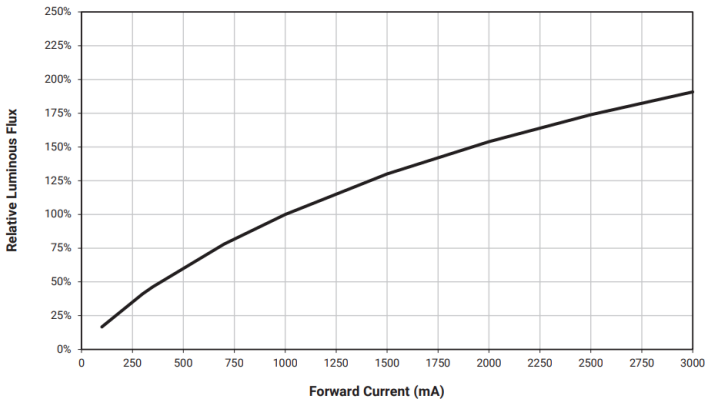
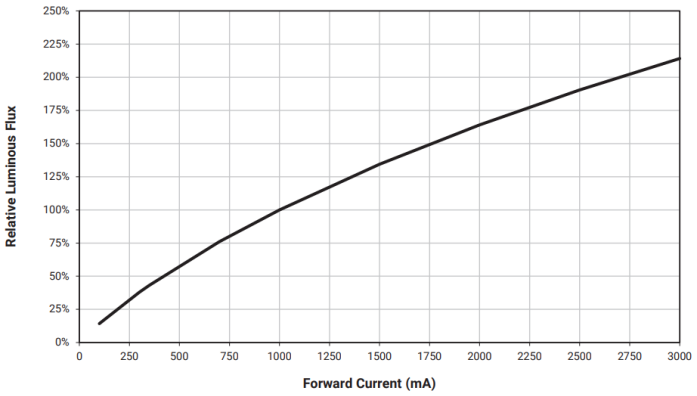
- **FORWARD VOLTAGE VS. FORWARD CURRENT**

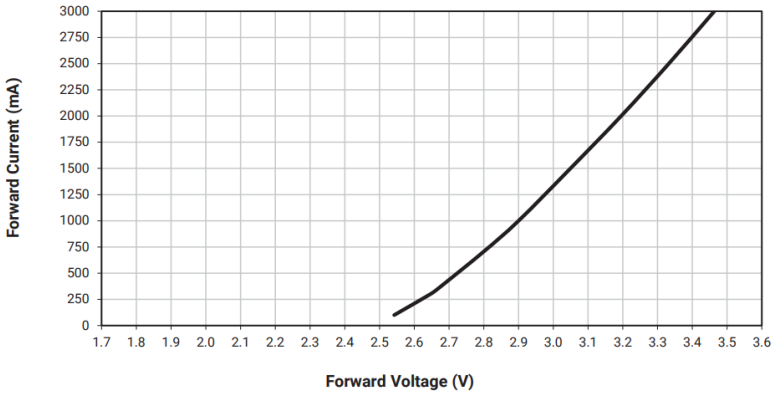
GREEN



BLUE



WHITE



RED

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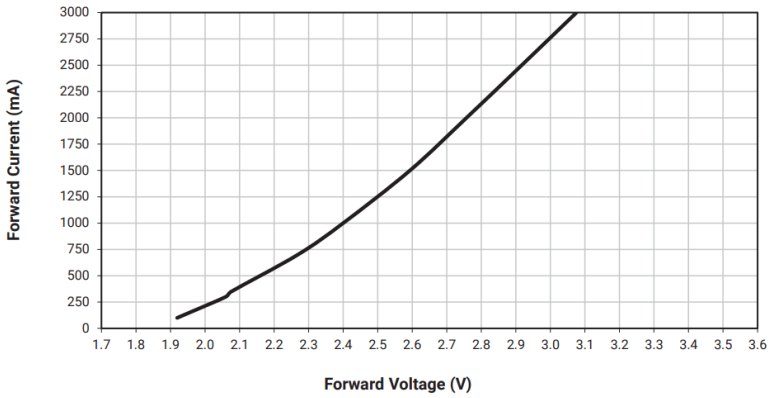
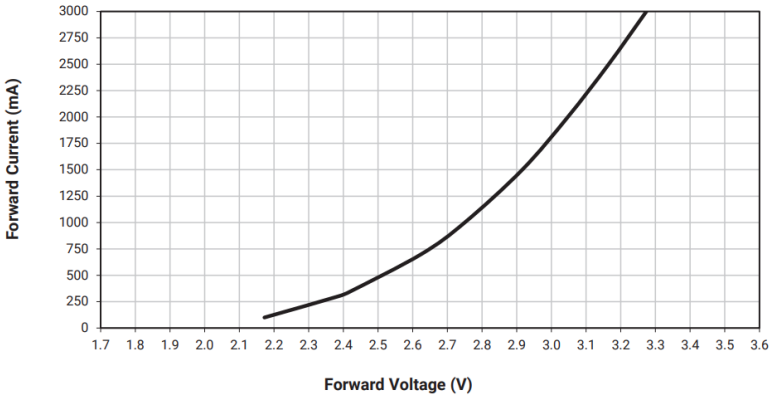
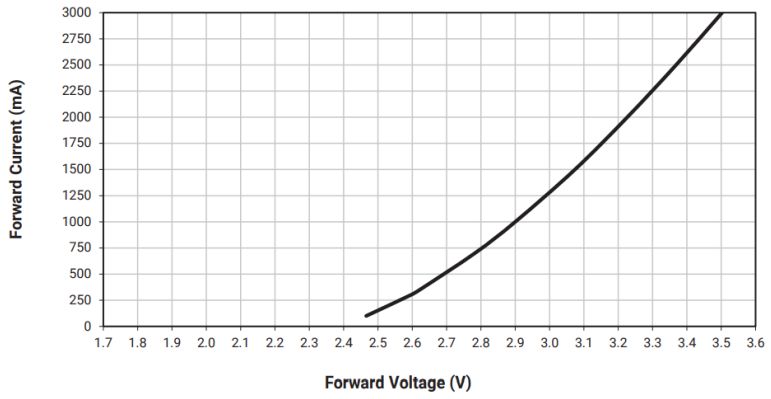
GREEN



BLUE





- **LUMINOUS FLUX VS. JUNCTION TEMPERATURE**

WHITE

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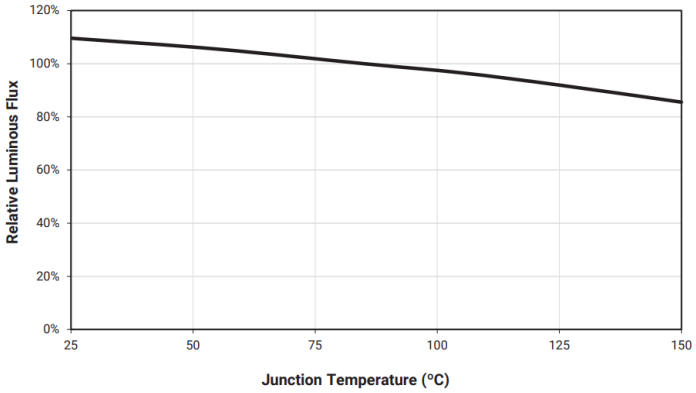
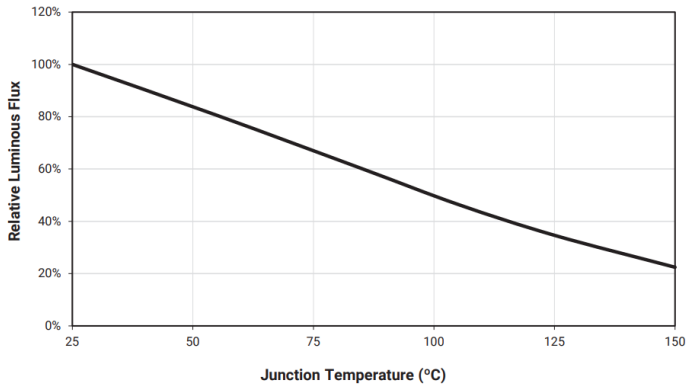
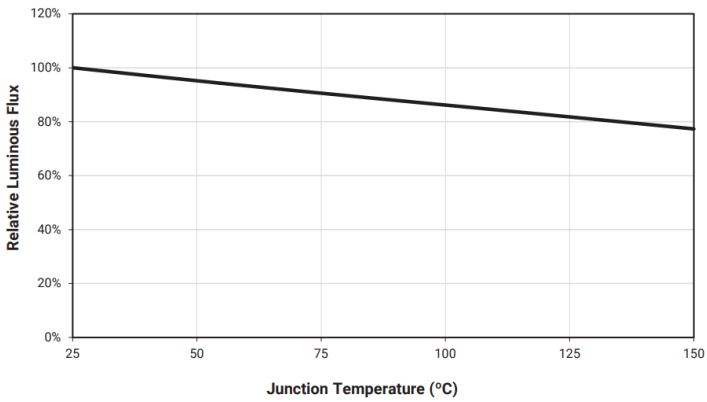
RED

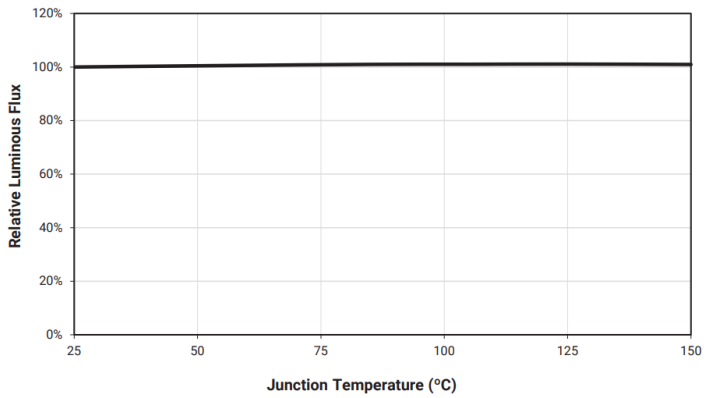


GREEN



BLUE





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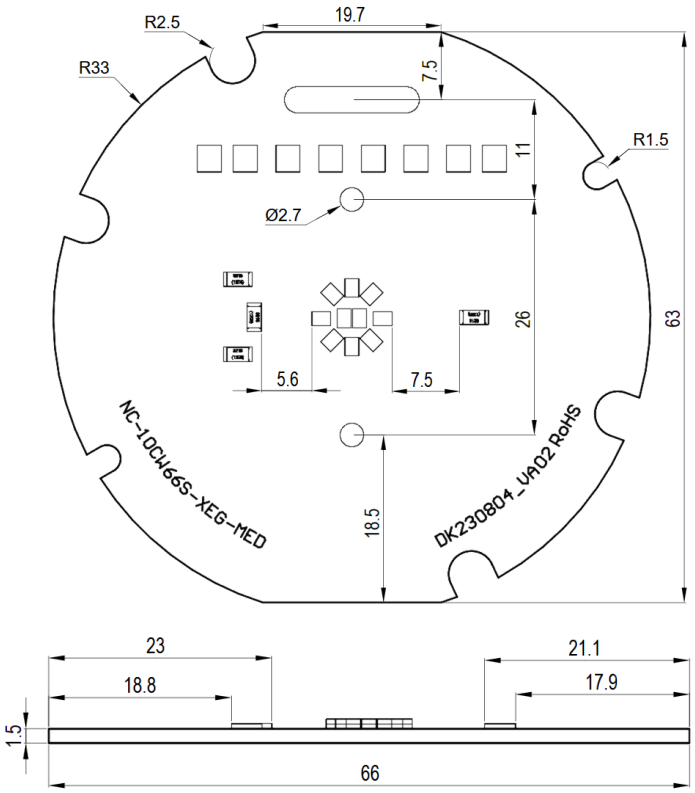
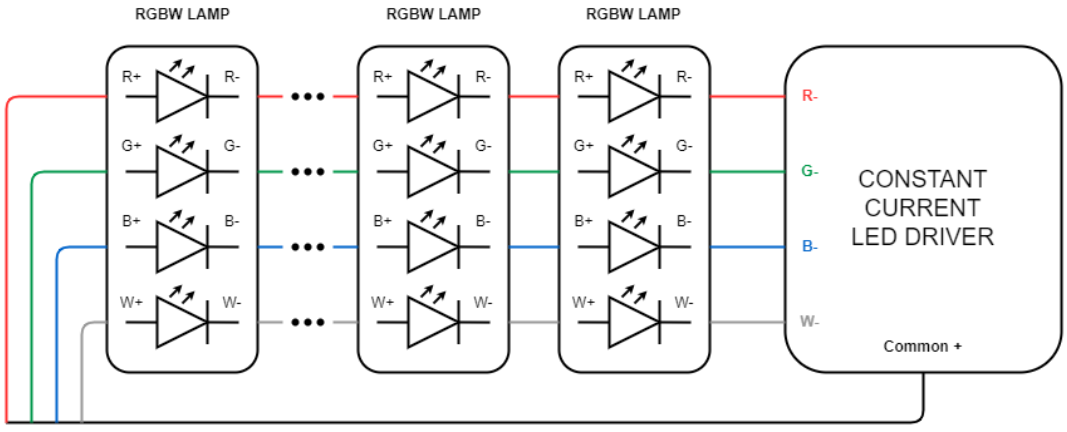
➢ DIMENSIONS



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

	MECHANICAL SPECIFICATION
Dimensions	66X63 mm
Board Thickness	1.5 mm
Board Material	MCPCB, 1060 Alloy, 1.5 W/(m*K), white soldermask
Shape	Circular

➢ ELECTRICAL INSTALLATION



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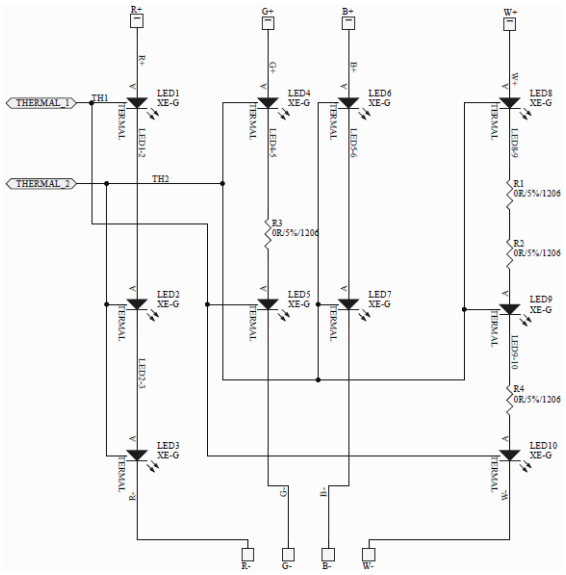
➢ ELECTRICAL SCHEMA



➢ ORDERING CODE

ORDERING CODE / ARTICLE CODE	DESCRIPTION
MOD-10C66-XEGA-RGB30-VA01	LED Module, High Efficacy, white soldermask, 10 LED, 66x63 mm, XE-G, White – 3000K CRI 80, RGBW

➢ COMMERCIAL INFORMATION

COMMERCIAL INFORMATION	
Minimum Order Quantity	16 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 XE-G 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)

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