

Made in Poland

LED modules based on the CREE LED[®] XP-G3 optimized for cost effective and high efficacy applications. Modules are providing optimized and easy integration, with excellent quality, reliability and precision.

High efficacy **209 lm/W** and up to **4323 lm**.

LM-80 lifetime projections (IEC 62717)
> 135 000 (L70B10)¹

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

EPREL registered product



➤ **SPECIFICATION**

LED FAMILY	SERIES XP-G3 STANDARD		
	2700K 3-step	3000K 3-step	4000K 3-step
CCT/SDCM	2700K 3-step	3000K 3-step	4000K 3-step
Viewing Angle	120°		
Nominal Module Lumen Output (350mA)**	1091 lm	1150 lm	1209 lm
Nominal Efficacy	163 lm/W	171 lm/W	180 lm/W
CRI	80		
Voltage DC (typ.)	19,0 V		
Voltage DC (max)	21,0 V		
Power Consumption	6,65 W @ 350mA		
Max. LED module lumen output ²	3901 lm	4112 lm	4323 lm
Max. LED module working current	1500 mA		
Max. power	31,5 W		
Number of LEDs	7		
Power Supply Type	constant current		
Risk Group Classification ³	RG-1 Low Risk		
Energy Class	D	C	C
Operating Temperature	-30°C ÷ +60°C		
Tc max.	85°C		
Lifetime of LEDs ¹ /Tc life	>102 000 h @ 85°C/105 °C, 240 mA,		

¹ Lifetime of LEDs as declared by the manufacturer **CREE LED®** according to [IES LM-80-2015 Testing Results Revision:32 :2025](#).
² Source performance in real-life conditions at T=55°C; the tolerance of source lumen output is 10% - tested without heatsink
³ External heatsink required.
³ According to [Eye safety Cree document](#)

➤ **FEATURES**

Application:

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

Features:

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

EPREL Database link
QR CODE

2700K



2640999



3000K



2641008



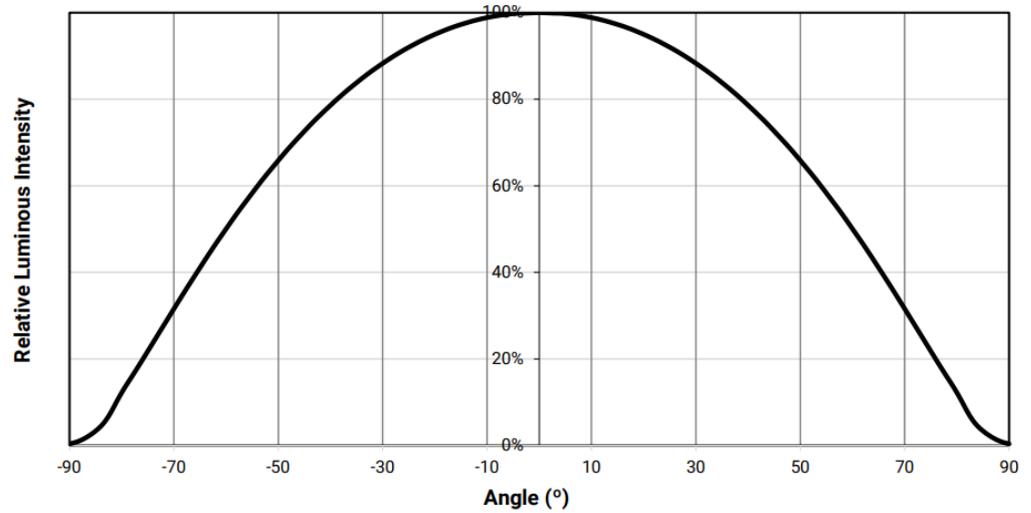
4000K



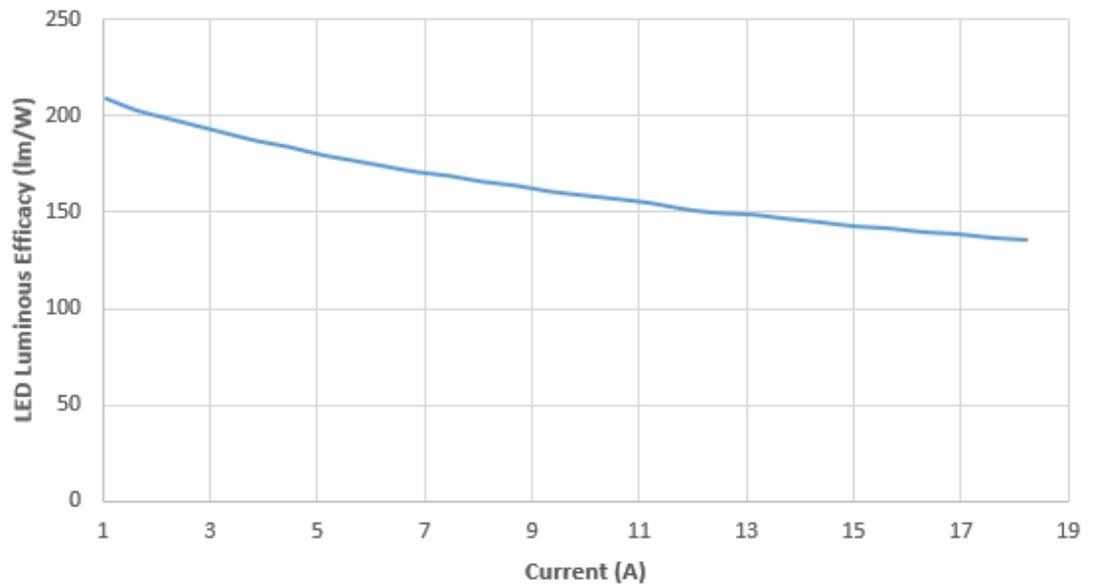
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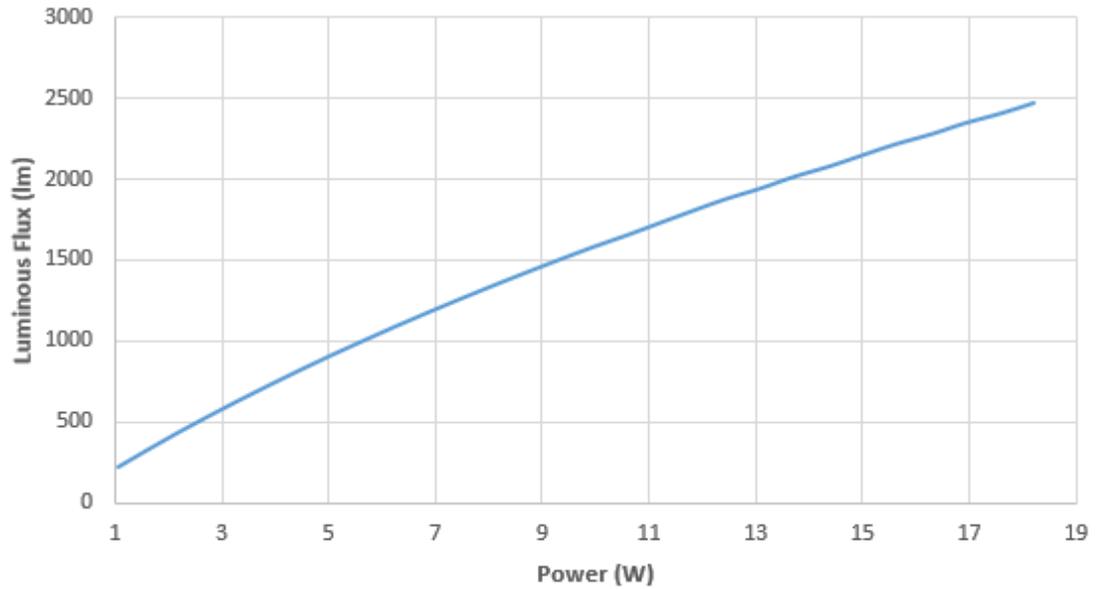
➤ TYPICAL SPATIAL DISTRIBUTION



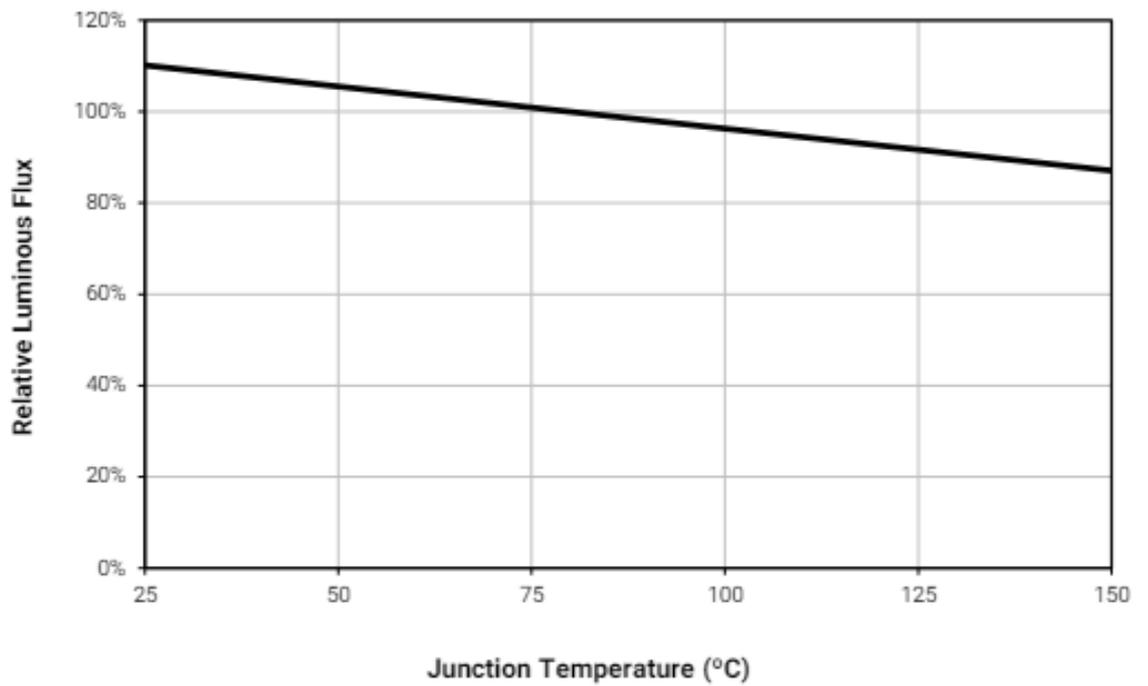
➤ LUMINOUS EFFICACY VS. CURRENT



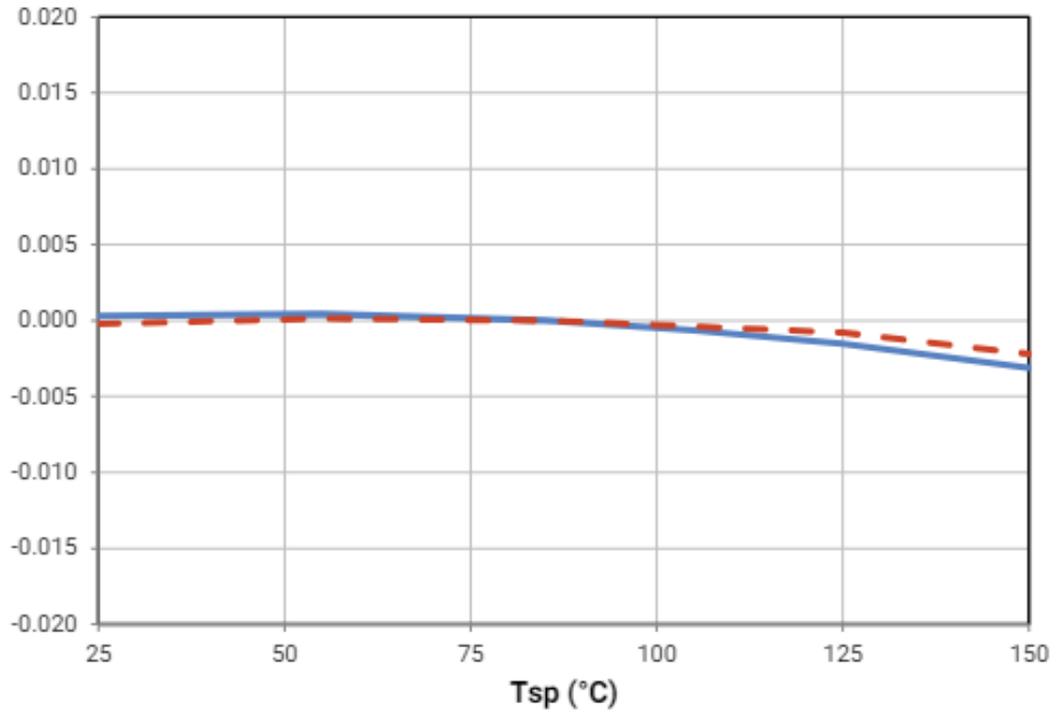
➤ **LUMINOUS FLUX
VS.
CURRENT**



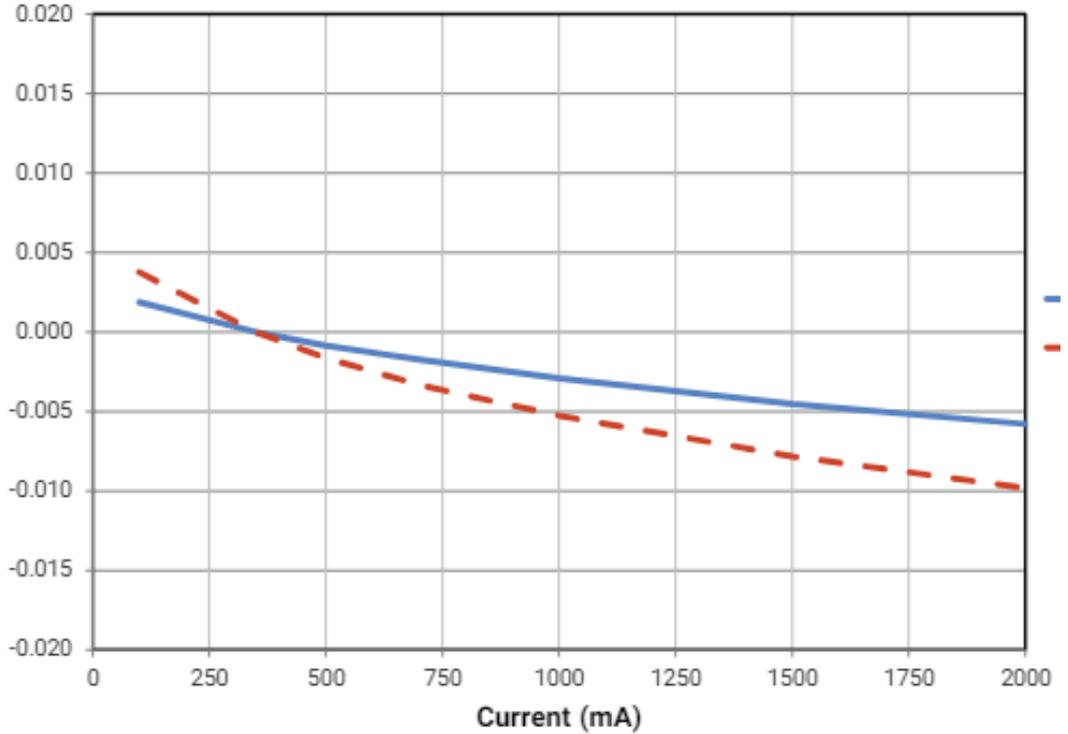
➤ **LUMINOUS FLUX
VS.
JUNCTION
TEMPERATURE**



➤ **RELATIVE CHROMATICITY VS. TEMPERATURE**



➤ **RELATIVE CHROMATICITY VS. CURRENT**



➤ **DIMENSIONS**

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

MECHANICAL SPECIFICATION	
Dimensions	44,6 x 45,0 mm
Board Thickness	1.6 mm
Board Material	MCPCB, 1060 Alloy, 1.5 W/(m*K), white soldermask
Shape	Circular

➤ **CONNECTION**



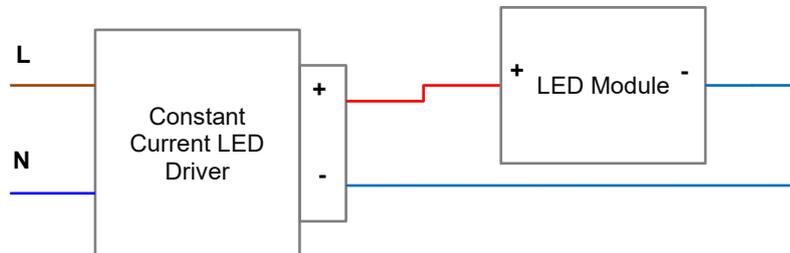
Inserting solid conductors via push-in termination.



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



➤ **ELECTRICAL INSTALLATION**



➤ **ORDERING CODE**

ORDERING CODE / ARTICLE CODE	DESCRIPTION
MOD-NL-XPG3-1305003-2700K-G2-VA07	Module MCPCB NIVISS 1305003, CREE XP-G3 series, 2700K, CRI 80, mico pure connectors, RoHS
MOD-NL-XPG3-1305003-3000K-G2-VA07	Module MCPCB NIVISS 1305003, CREE XP-G3 series, 3000K, CRI 80, mico pure connectors, RoHS
MOD-NL-XPG3-1305003-4000K-G2-VA07	Module MCPCB NIVISS 1305003, CREE XP-G3 series, 4000K, CRI 80, mico pure connectors, RoHS
Customer Modules on request	

➤ **COMMERCIAL INFORMATION**

COMMERCIAL INFORMATION	
Connector	MICROCON SMD PURE
Minimum Order Quantity	50 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 [XLamp[®] XP-G3 LEDs](#)
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 \(CE\)](#)