

24C60-XP GD-3080 family are LED modules based on the CREE LED<sup>®</sup> XP-G3 optimized for cost effective and high efficacy applications. 24C60-XP GD-3080 modules are providing optimized and easy integration, with excellent quality, reliability and precision.

Efficacy **149 lm/W** and up to **8890 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		XLamp <sup>®</sup> XP-G3
CCT/SDCM		3000K 3-STEP
Viewing Angle		123°–130°
Nominal Module Lumen Output**		3740 lm
Nominal Efficacy		149 lm/W
CRI		80
Voltage DC (typ.)		24 V
Voltage DC (max)		30 V
Power Consumption		25 W
Max Module Lumen Output (3000 mA)**		8890 lm
Max. LED module working current ***		3000 mA / module
Max power		72 W
Number of LEDs		24
Power Supply Type		Constant Current
Risk Group Classification		RG-1 Low Risk
Energy Class		D
Operating Temperature		-30°C ÷ +60°C
Tc max.		85°C
Lifetime*/Tc life		>65000h 55°C, 350 mA

\* Lifetime of LEDs as declared by the manufacturer [CREE LED<sup>®</sup>](#) 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

Feature:

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

EPREL Database link  
QR CODE

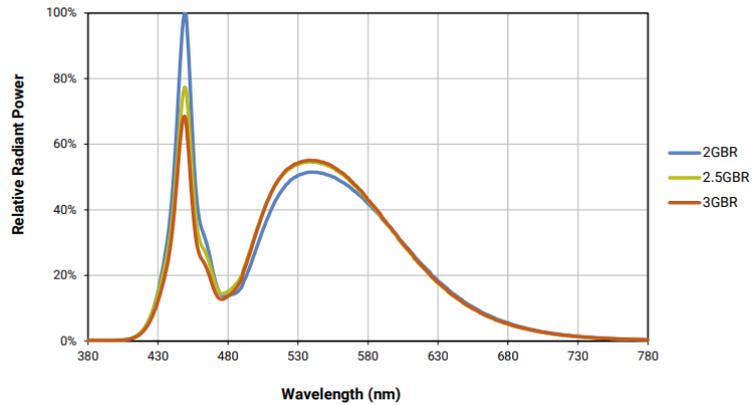
3000K



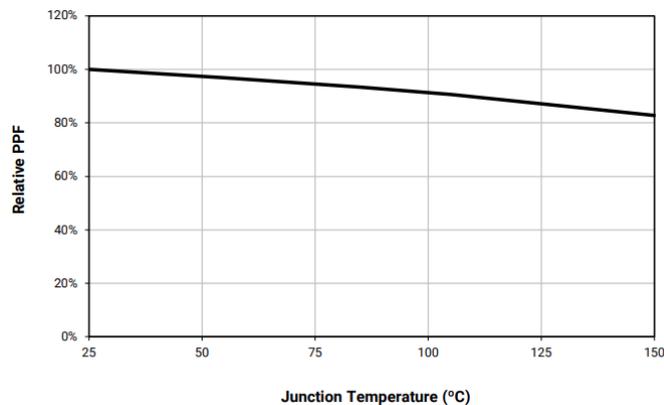
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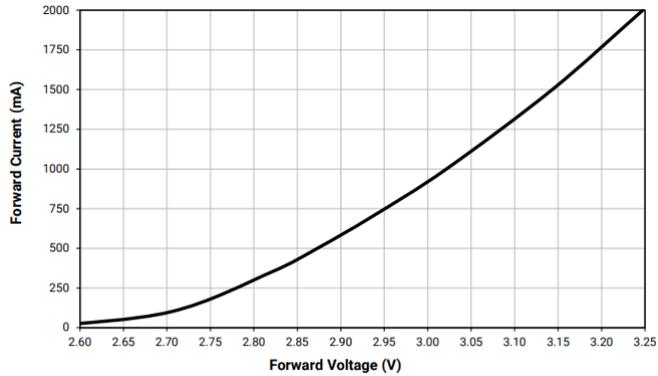
➤ RELATIVE SPECTRAL POWER DISTRIBUTION



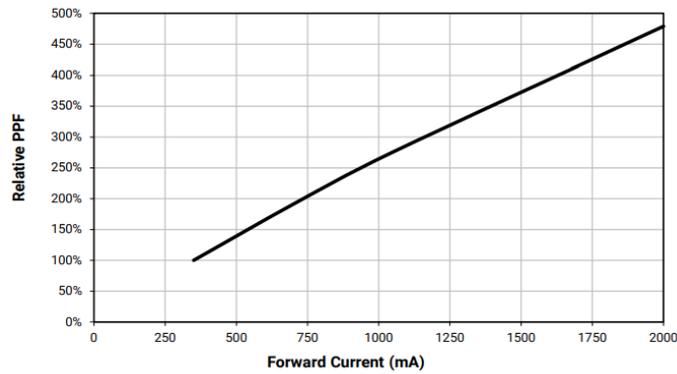
➤ RELATIVE PPF VS. JUNCTION TEMPERATURE  
IF = 350 mA



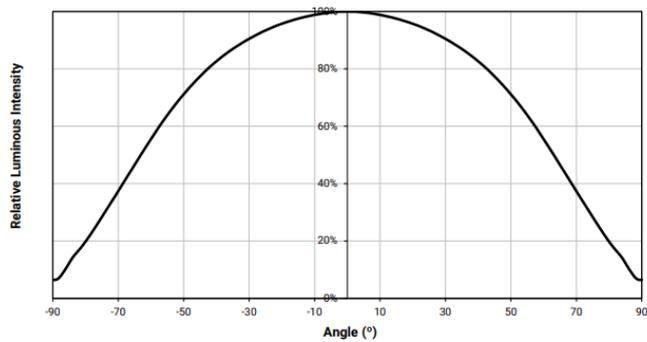
➤ **ELECTRICAL CHARACTERISTICS**  
CS - T<sub>J</sub> = 25 °C



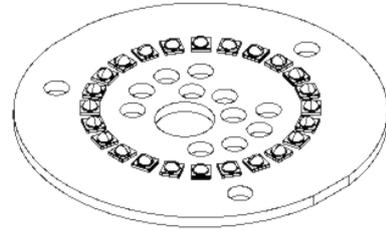
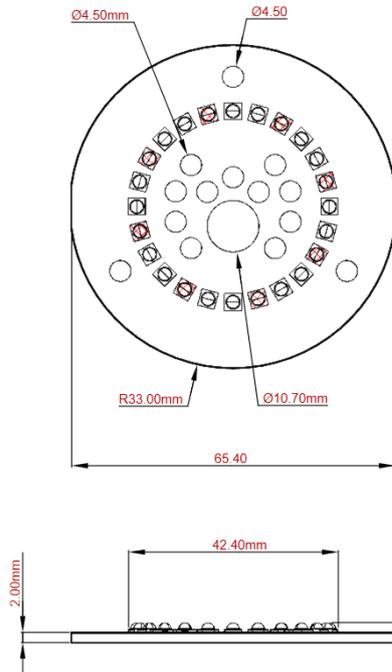
➤ **RELATIVE PPF VS. CURRENT**  
T<sub>J</sub> = 25 °C



➤ **TYPICAL SPATIAL DISTRIBUTION**



➤ DIMENSIONS

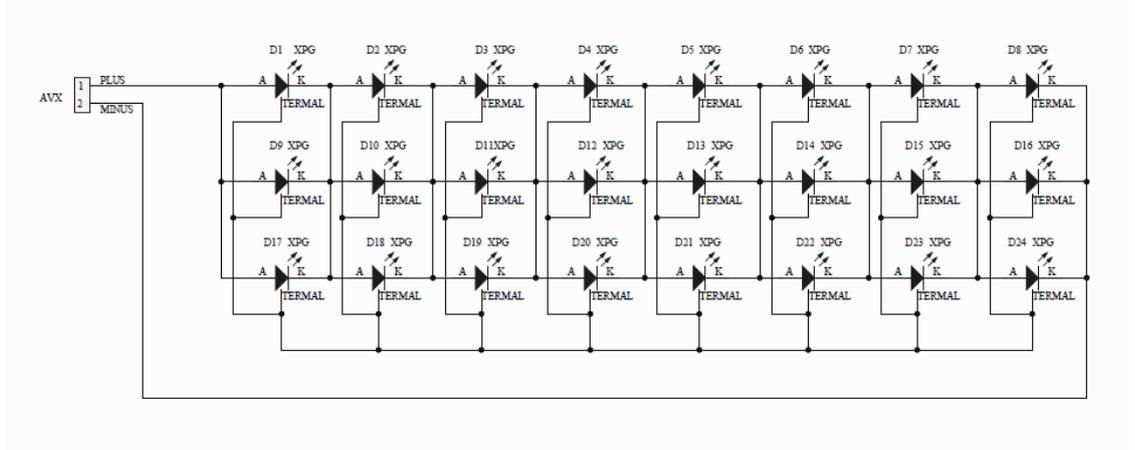


Notes:  
Drawing is not to scale.  
All dimensions are in millimeters.

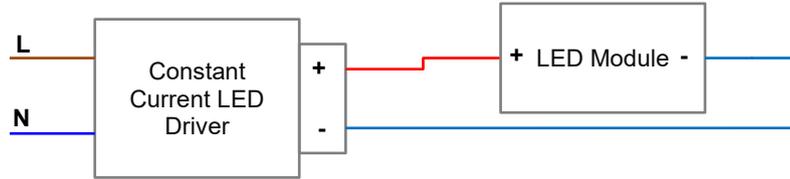
MECHANICAL SPECIFICATION	
Dimensions	66X65.4 mm
Board Thickness	2.0 mm
Board Material	MCPCB, 1060 Alloy, 1.5 W/(m*K), white soldermask
Shape	Round

➤ CONNECTION

➤ ELECTRICAL SCHEMA



➤ ELECTRICAL INSTALLATION



➤ ORDERING CODE

ORDERING CODE / ARTICLE CODE	DESCRIPTION
MOD-24C60-XP GD-3080-VA01	MCPCB, 34 LED, 80 CRI, CCT300, 66x65.5mm

➤ COMMERCIAL INFORMATION

COMMERCIAL INFORMATION	
Connector	-
Available Lenses	
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 XLamp Series<sup>®</sup> XP-G3](#)
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<sup>®</sup>. 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<sup>®</sup>. List of substances available on the manufacturer's website: [cree-led.com](http://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 \(CE\)](#)