

24R500X35-XQE family are multi-color RGBW LED modules based on the CREE LED® XLamp® XQ-E optimized for all high-performance RGBW lighting applications, including color-changing, stage, architectural and entertainment. 24R500X35-XQE modules are providing the combination of high lumen output and great color mixing.

Quick and effective heat dissipation due to the using MPCB with ultra-high thermal conductivity **2.2 W/mK**, Lead Free HASL

EPREL registered product



➤ SPECIFICATION

LED FAMILY	XQ-E High Density (HD)					
Light Color	Red	Green	Royal Blue	Cool White	Neutral White	Warm White
CCT/SDCM	620–630 nm	520–535 nm	450–460 nm	6500 K	4000 K	3000K
Viewing Angle	125°			110°		
Nominal Module Lumen Output ¹	400 lm	640 lm	3.4 W	758 lm	715 lm	715 lm
Nominal Driving Current	350 mA					
Voltage DC (typ.) ¹	12.46 V	15.9 V	17.4 V	17.2 V		
Power Consumption ¹	4.36 W	5.56 W	6.09 W	6W		
Voltage DC (max) ²	15.6 V	21 V	19.5 V	19.6 V		
Max. LED module working current²	1.5 A / module					
Max. Power Consumption ¹	23.4 W	31.5 W	29.25 W	29.5 W		
Number of LEDs	24					
Power Supply Type	Constant Current					
Risk Group Classification ³	RG-1 Low Risk	RG-1 Low Risk	RG-2 Moderate Risk	RG-2 Moderate Risk	RG-1 Low Risk	RG-1 Low Risk
Energy Class	n/a	n/a	n/a	E		
Operating Temperature	-30°C + +60°C					
Tc max.	85°C					
Lifetime ⁴ /Tc life	>109000 h 85°C, 1000 mA	>45400 h 85°C, 1000 mA	>63800 h 85°C, 1000 mA	>51400 h 85°C, 500 mA		

¹ Source performance in real-life conditions at T=25°C without heatsink.
² External heatsink required.
³ According to [Eye safety Cree document](#)
⁴ Lifetime of LEDs as declared by the manufacturer [CREE LED®](#) according to IES LM-80-2015 Testing Results.

➤ **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



2620022

4000K



2620037

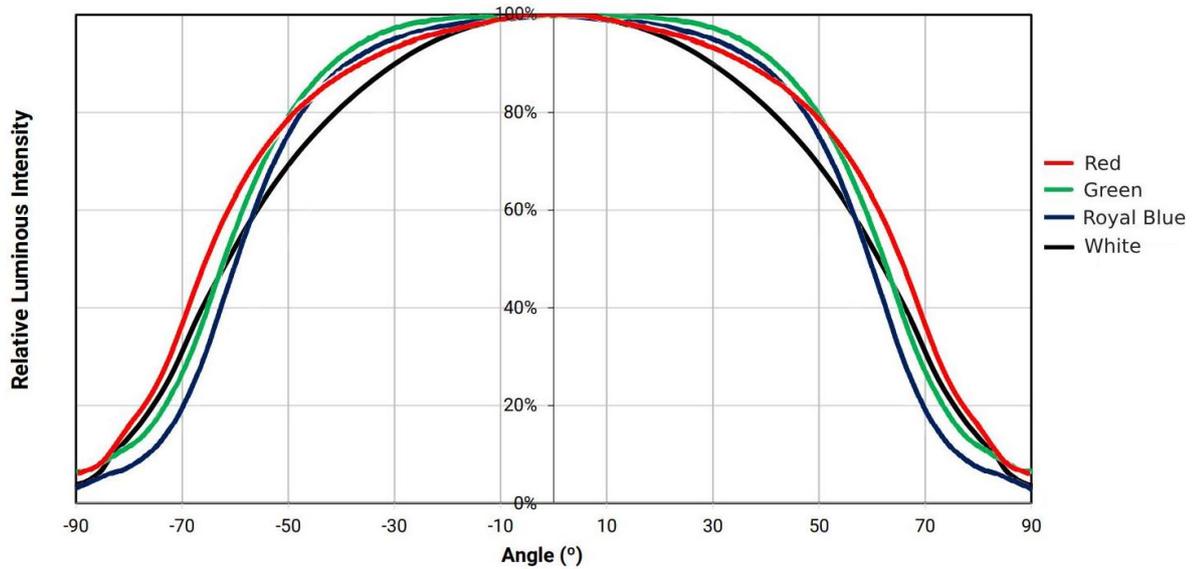
6500K



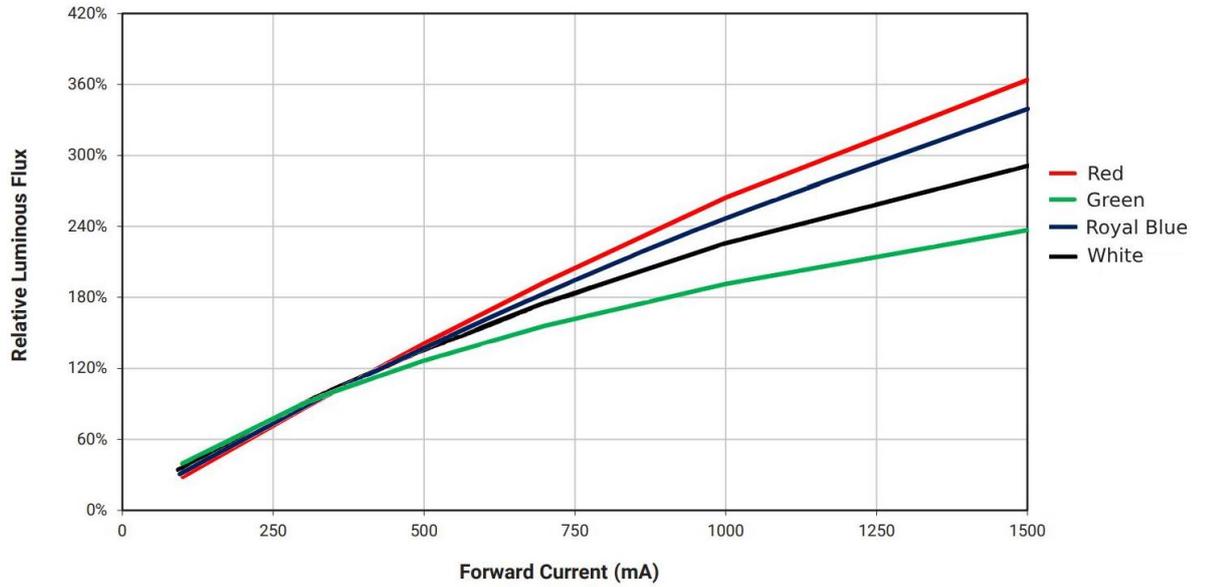
2620042



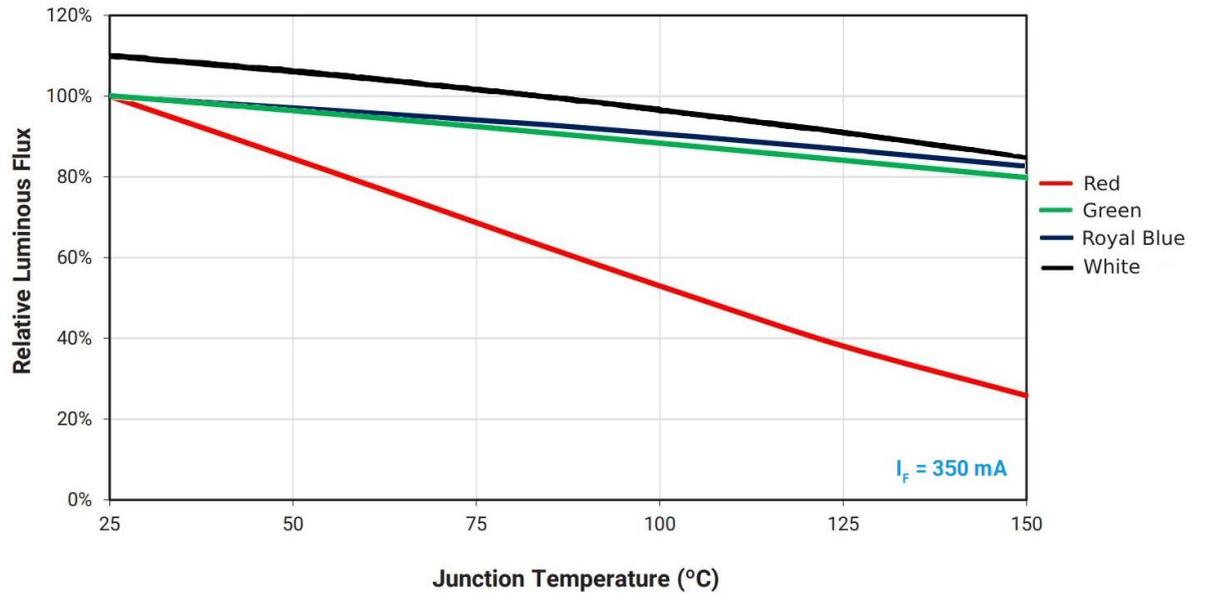
➤ **TYPICAL SPATIAL DISTRIBUTION**



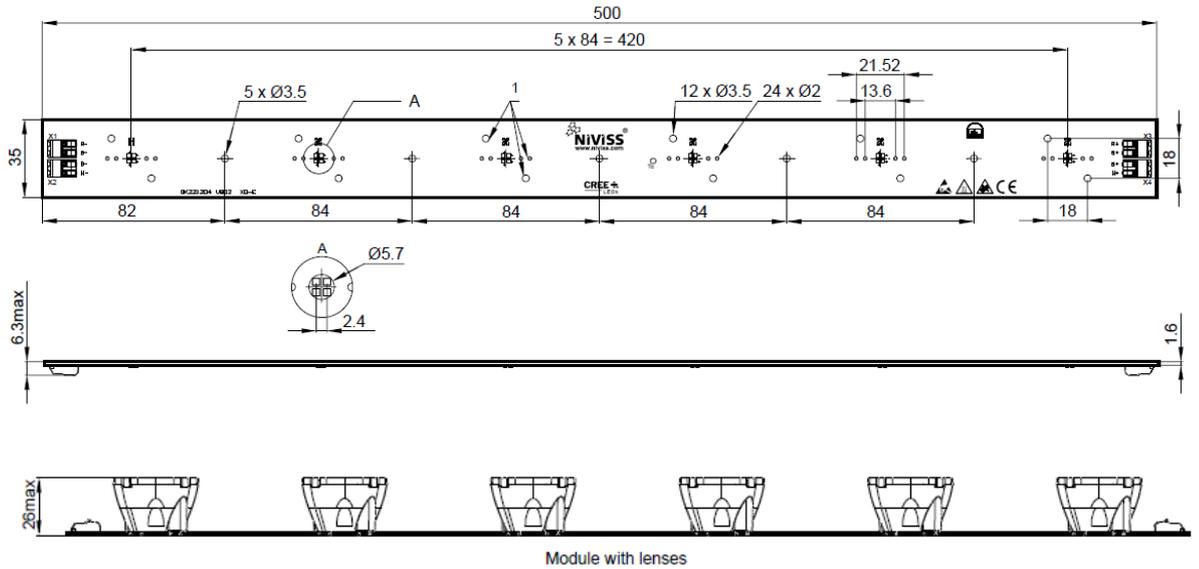
➤ RELATIVE FLUX
VS.
CURRENT



➤ RELATIVE FLUX
VS.
JUNCTION
TEMPERATURE



➤ DIMENSIONS



Notes:

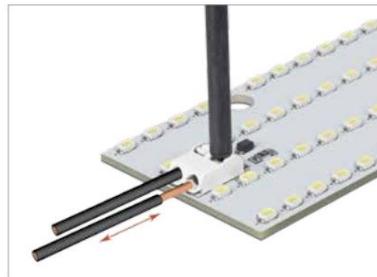
1. Holes for mounting and orientation lens LEDIL CA16205_GABRIELLA-MIDI-O.
2. Drawing is not to scale.
3. All dimensions are in millimeters.

MECHANICAL SPECIFICATION	
Dimensions	500 x 35 mm
Board Thickness	1.6 mm
Board Material	MCPCB, 5052 Alloy, 2.2W/(m*K); black soldermask
Shape	Rectangular

➤ CONNECTION



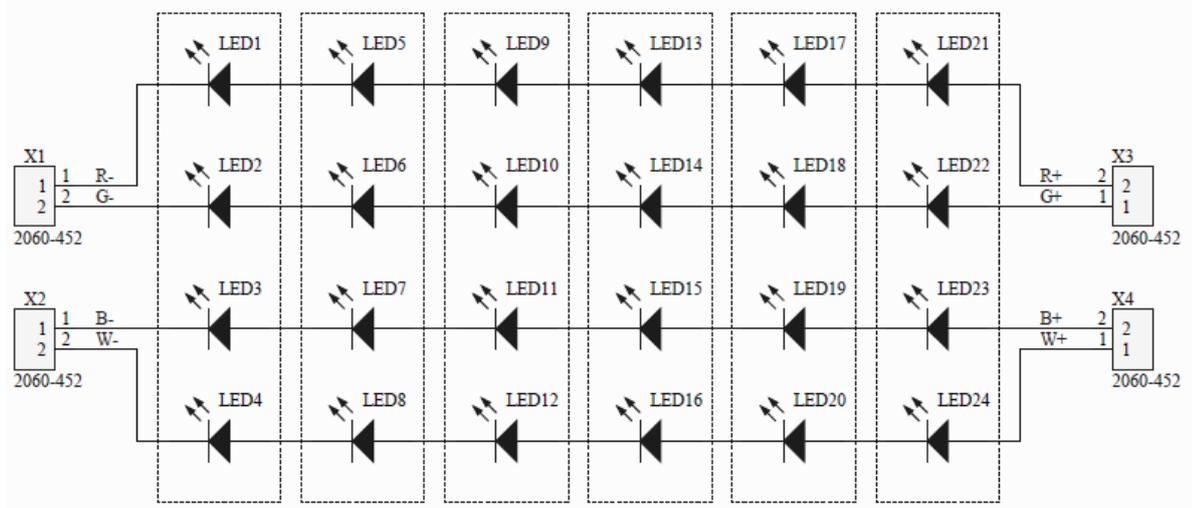
Inserting solid conductors via push-in termination.



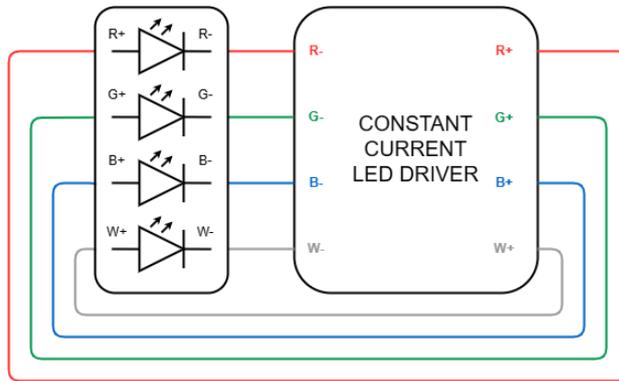
Inserting/removing fine-stranded conductors by lightly pressing on push-button (e.g., using a 206-860 operating tool).



➤ ELECTRICAL SCHEMA



➤ ELECTRICAL INSTALLATION



➤ ORDERING CODE

ORDERING CODE / ARTICLE CODE	DESCRIPTION
MOD-24R500X35-XQEA0-RGB30-VB02	LED Module, 24 LED, XQ-E, RGB + Warm White, High Density, black soldermask, 500x35 mm
MOD-24R500X35-XQEA0-RGB40-VB02	LED Module, 24 LED, XQ-E, RGB + Neutral White, High Density, black soldermask, 500x35 mm
MOD-24R500X35-XQEA0-RGB65-VB02	LED Module, 24 LED, XQ-E, RGB + Cool White, High Density, black soldermask, 500x35 mm

➤ COMMERCIAL INFORMATION

COMMERCIAL INFORMATION	
Connector	WAGO 2060
Available Lenses	CA16205_GABRIELLA-MIDI-O
Minimum Order Quantity	10 pcs.
Warranty	2 years
Power Supply	PS-APC MEAN-WELL PS-LPC-20 MEAN-WELL PS-LPC-35 MEAN-WELL PS-LPC-60 MEAN-WELL PS-LPHC-18

➤ **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® XQ-E](#)
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 \(CE\)](#)