CREE LED® High Efficacy
LED Modules 2C34-XEGA family

DK231004

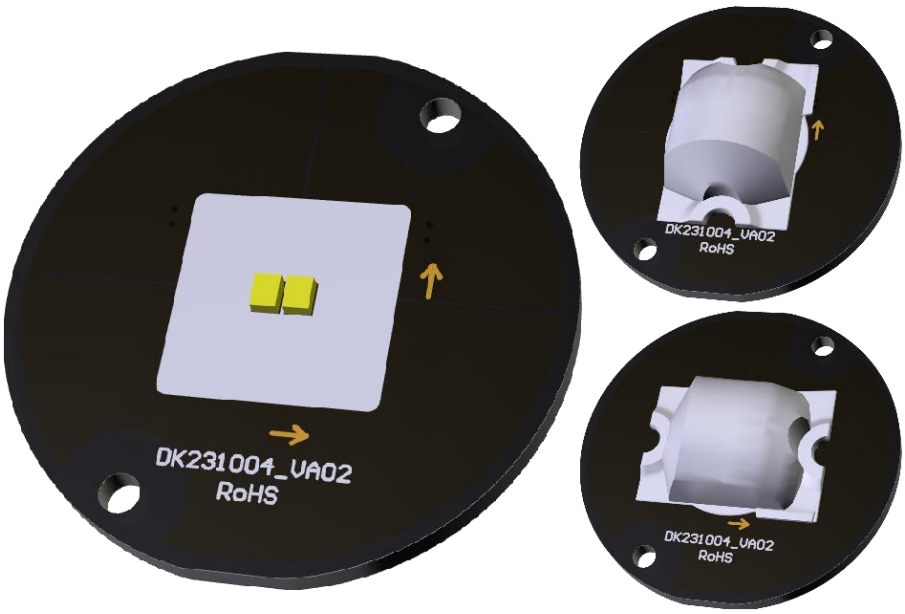
2C34-XEGA family are LED modules based on the CREE LED® XE-G® optimized for cost effective and high efficacy applications. 2C34-XEGA modules are providing optimized and easy integration, with excellent quality, reliability and precision.

High efficacy **125 lm/W** and up to **1580 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	PC56H19 SERIES			
CCT/SDCM	2700K 3-STEP	3000K 3-STEP	4000K 3-STEP	5000K 3-STEP
Viewing Angle	120°			
Nominal Module Lumen Output**	550 lm	580 lm	750 lm	
Nominal Efficacy	90 lm/W	97 lm/W	125 lm/W	
CRI	80			
Voltage DC (typ.)	6 V			
Voltage DC (max)	7,2 V			
Power Consumption	6 W			
Max Module Lumen Output (3000 mA)**	1145 lm	1230 lm	1580 lm	
Max. LED module working current ***	3000 mA / module			
Max power	21,6 W			
Number of LEDs	2			
Power Supply Type	Constant Current			
Risk Group Classification	RG-1 Low Risk			
Energy Class	F		E	
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

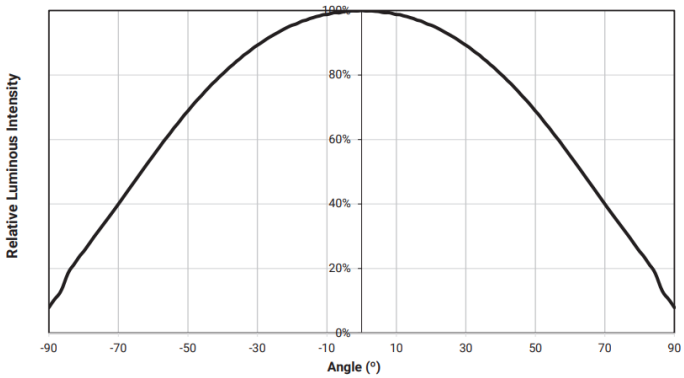
Feature:

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

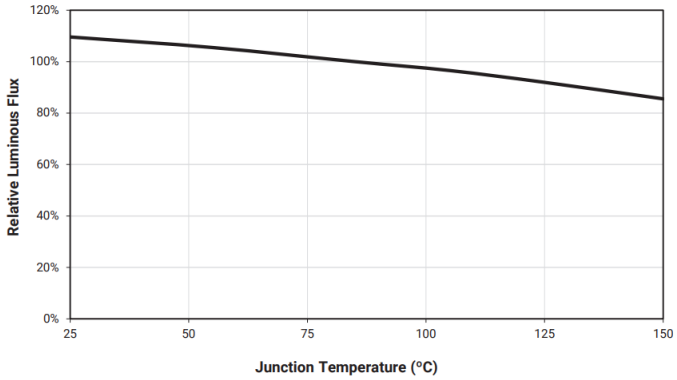
EPREL Database link QR Code

2700K	3000K	4000K	5000K
2619656	2619673	2619687	2619712

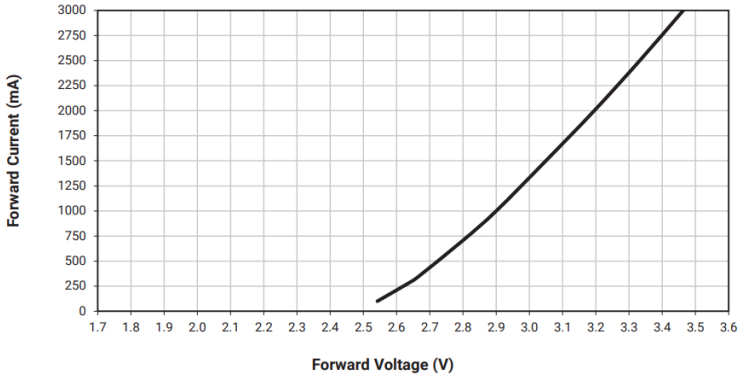
➢ TYPICAL SPATIAL DISTRIBUTION



➢ RELATIVE LUMINOUS FLUX VS. JUNCTION TEMPERATURE



➢ FORWARD VOLTAGE VS. FORWARD CURRENT



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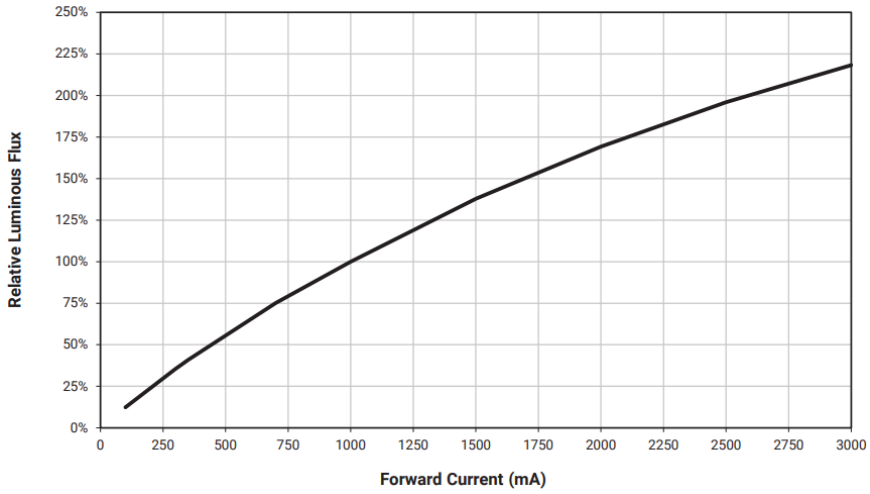
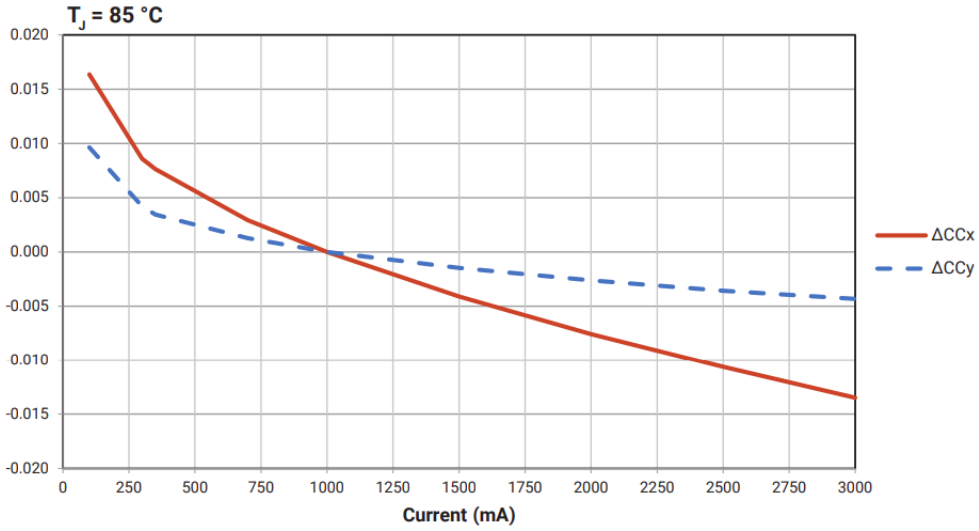
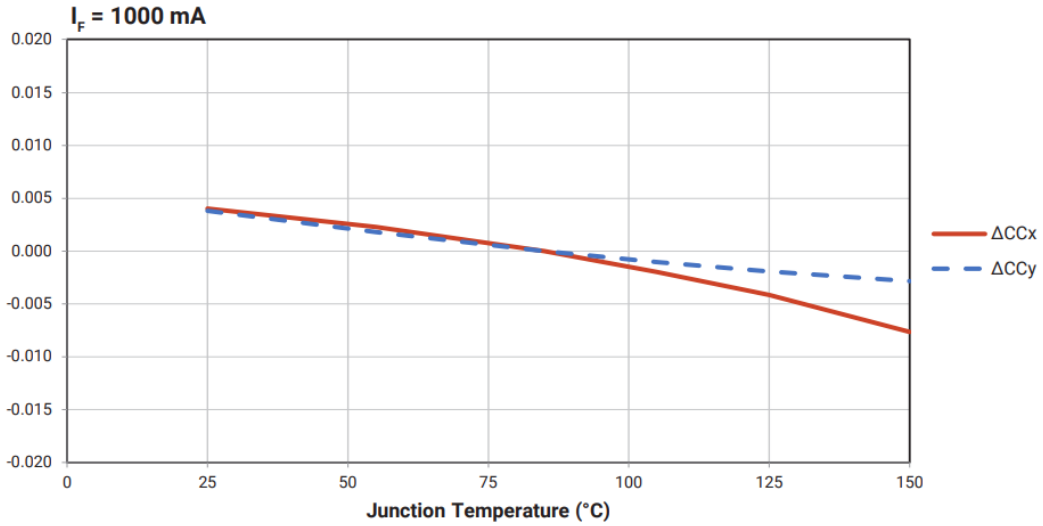
- **RELATIVE LUMINOUS FLUX VS. FORWARD CURRENT**



- **RELATIVE CHROMATICITY VS. CURRENT**



- **RELATIVE CHROMATICITY VS. JUNCTION TEMPERATURE**



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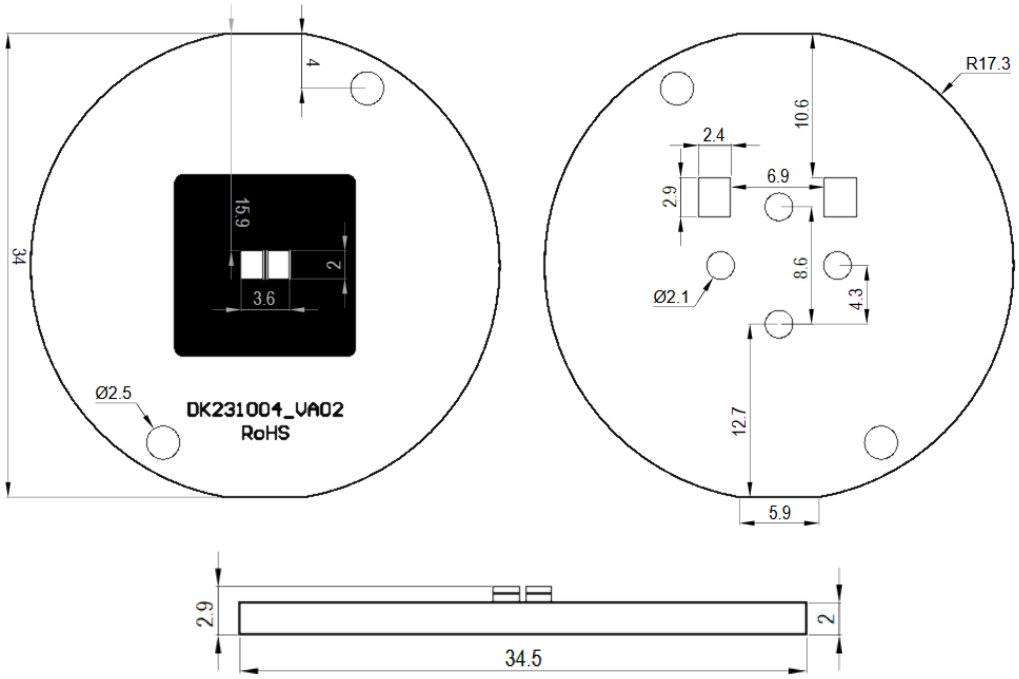
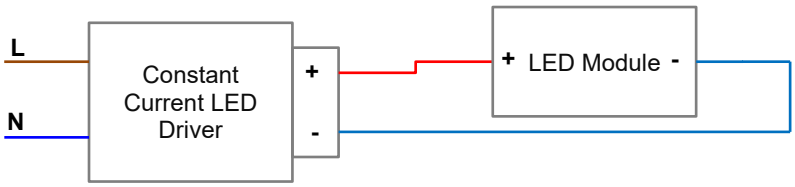
➢ DIMENSIONS



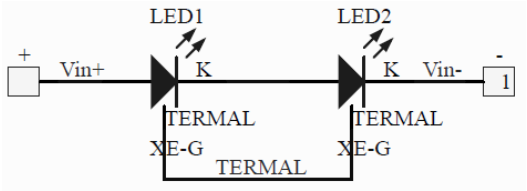
Notes:
Drawing is not to scale.
All dimensions are in millimeters.

	MECHANICAL SPECIFICATION
Dimensions	34.5X35 mm
Board Thickness	2 mm
Board Material	MCPCB, 1060 Alloy, 1.5 W/(m*K), black soldermask
Shape	Circular

➢ ELECTRICAL INSTALLATION



➢ ELECTRICAL SCHEMA



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➢ ORDERING CODE

ORDERING CODE / ARTICLE CODE	DESCRIPTION
MOD-2C34-XEGA-2780-VA02	LED Module, High Efficacy, black soldermask, 2 LED, 34x35 mm, XE-G, 2700K CRI 80
MOD-2C34-XEGA-3080-VA02	LED Module, High Efficacy, black soldermask, 2 LED, 34x35 mm, XE-G, 3000K CRI 80
MOD-2C34-XEGA-4080-VA02	LED Module, High Efficacy, black soldermask, 2 LED, 34x35 mm, XE-G, 4000K CRI 80
MOD-2C34-XEGA-5080-VA02	LED Module, High Efficacy, black soldermask, 2 LED, 34x35 mm, XE-G, 5000K CRI 80

➢ COMMERCIAL INFORMATION

COMMERCIAL INFORMATION	
Available Lenses	LEDIL CA13477_STRADA-FT
Minimum Order Quantity	30 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 LED producer. 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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