

# LUXDRIVE ANTARES LED MODULE

Powered by Cree XP-G3 LEDs

## PRODUCT DESCRIPTION

The LUXdrive™ Antares Cree XP-G3 LED module is an off-the-shelf solution to quickly move from prototype to finished LED lighting fixture. The rectangular metal-core printed circuit board employs four (4) Cree XP-G3 emitters. The Antares is built with all 4 LEDs connected in series by 0-ohm jumpers, however, if needed the LEDs can be addressed individually. The LED module was built to work with Khatod Nactus Smart (Nactus 4) optics, silicone gasket and non-gasket options available.



### Design with Speed

LUXdrive™ LED modules shorten development time!

### Low Profile

2.3 x 2.9" LED board that sits at just 0.16" tall.

### High Performance

Premium binned LEDs at competitive prices.

### Optics that Protect

Increase IP ratings of your LED light with gasketed optics!

## PRIMARY APPLICATIONS

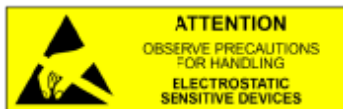
- ✓ DOWNLIGHTING
- ✓ CANOPY/PAVILION
- ✓ GARAGE
- ✓ PORTABLE
- ✓ SURFACE MOUNT
- ✓ HIGH BAY
- ✓ ARCHITECTURAL
- ✓ GENERAL

## CUSTOM SOLUTIONS

LEDdynamics operates manufacturing facilities with ISO certifications for the LED lighting industry. Our Vermont based office provides quick engineering & sales support with a R&D lab for prototype development and custom solutions. LEDdynamics' electrical engineers merge LED driver design and LED light module disciplines onto a single PCB to create a cost-saving LED light engine that can be incorporated into any LED light fixture.

## ABOUT LEDDYNAMICS

LEDdynamics accelerates the adoption of LED technology through simple, modular products and custom designs. As an industry innovator, LEDdynamics offers a range of LED drivers, control products, light engines, and modules designed to meet the needs of new product development or retrofit lighting applications. We also specialize in custom engineering and manufacturing services for projects that require a unique form, fit, or function.



## LUXDRIVE ANTARES LED MODULE

### Product Selection Guide

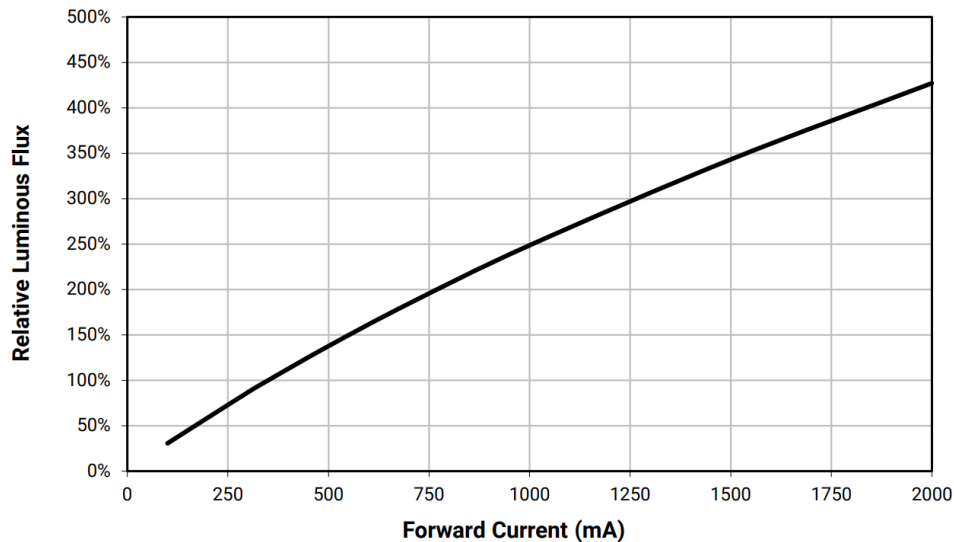
PART NUMBER	CCT	CRI	FORWARD VOLTAGE (Vf)		LUMENS @ 350MA	
			TYP.	MAX <sup>2</sup>	TYP.	MAX <sup>2</sup>
J016-CG30827R4	2700K	80	10.8	12.24	476	2033
J016-CG30830R5	3000K	80			556	2374
J016-CG30840S2	4000K	80			592	2528
J016-CG30750S3	5000K	70			624	2664
J016-CG30765S4	6500K	70			656	2801

1. Values specified @ 350mA, T, 85°C - for more specs, visit emitter data sheet [here](#).  
 2. Maximum values are assuming the max drive current of 2A (2000mA)

### Maximum Ratings

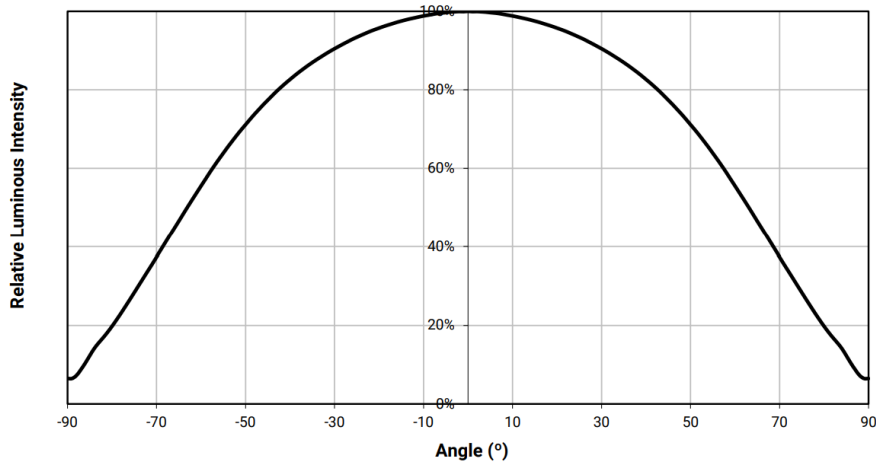
LED Module	DC Current (mA)	Typ. Viewing Angle	Thermal Resistance (°C/W)*	Wattage (W)
Antares (XPG-3)	2000	125°	1.75°	24.5

### Relative Flux vs. Board Current (T<sub>j</sub> = 85°)



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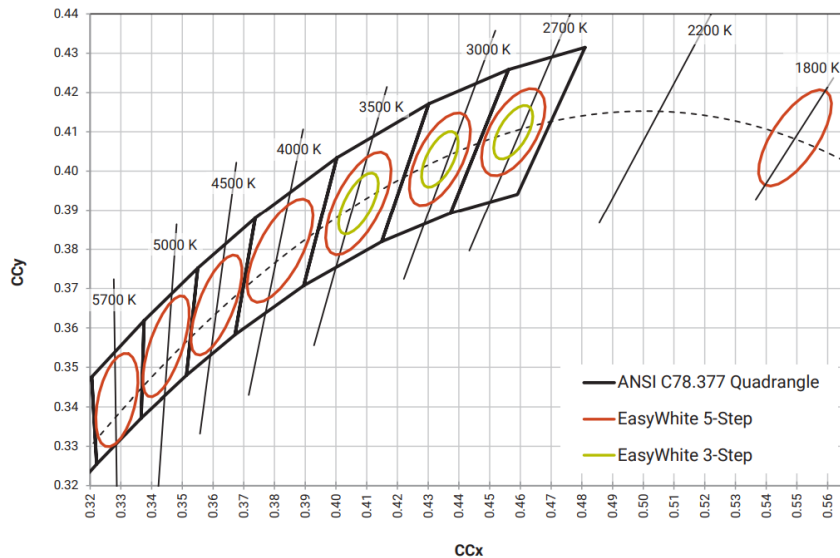
## Spatial Distribution



### Performance Groups - Chromaticity

5 - Step EasyWhite Binning					
CCT	Center Point		Major Axis	Minor Axis	Rotational Angle (°)
	X	Y	a	b	
2700K	0.4577	0.4099	0.01350	0.00700	48.5
3000K	0.4338	0.4030	0.01390	0.00680	53.2
4000K	0.3818	0.3797	0.01565	0.00670	53.7
5000K	0.3447	0.3553	0.01400	0.00520	65.0

### Cree XP-G3 Easy White Chromaticity Regions





## LUXDRIVE ANTARES LED MODULE

### Accessories

#### LED Drivers

LUXdrive™ offers a line of drivers designed for use with high-power LED modules such as the Antares. The choice of driver will depend on number of LEDs to be driven, the input voltage source, and the desired forward drive current. See the full line of LUXdrive™ drivers [here](#).

#### Heat Sinking

Thermal management should be a consideration in any LED application. The Antares uses four (4) high power LEDs that require heatsinking. The back of the MCPCB is electrically isolated so that you do not need to use an electrically insulated thermal interface material. Some form of thermal interface material should be used to minimize air pockets and allow for maximum heat transfer from the LED module to the heatsink.

#### Mounting

Mounting points are provided at each corner. A #4 screw should be used when mounting.

#### Optics

The LUXdriver Antares LED board was made to work with the Khatod Nactus SMART Optical system with 4 Lenses. The Nactus SMART optic line features a variety of models that offer many different ways to customize your LED lighting fixtures. These premium optics have the option to come with a silicone gasket to make your unit IP protected. The Antares paired with these optics are perfect for street lighting and general directional lighting of all kinds. Check out the full line [here](#) and contact us for more information.

### Antares Mechanical Drawing

