

LUMILEDS LUXEON C STARBOARDS

Industry Leading 1-up & 3-up High Powered LED Stars

PRODUCT DESCRIPTION

The L011 LUXdrive C-7 is a compact high lumen output light module. The circular MCPCB employs seven high power Luxeon C LEDs for a large punch in a small space. The board sits at just 1.58" diameter but can output up to 850 Lumens! The C-7 board is highly configurable, if you need a different combination of colors, please contact LEDdynamics. The board is designed to work with Khatod's Zeta optic line.



Superior Performance

Seven Luxeon C LEDs power over 100 Lumens per Watt

Full Color

Multiple CCT and color options for your application

Low Profile

1.58" Diameter MCPCB sits @ .118" tall or .532" with an optic

Quick Connections

Simple, clearly marked electrical connections

PRIMARY APPLICATIONS

- ✓ DOWNLIGHTING
- ✓ ARCHITECTURAL
- ✓ LED LANDSCAPE
- ✓ PORTABLE
- ✓ SURFACE MOUNT
- ✓ SPOTLIGHTS
- ✓ SIGNAL/SIGN
- ✓ 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.





LUXEON C 7-UP LED MODULE

White CCT & Full Color Spectrum Options

PART NUMBER	CCT/ COLOR	CRI/TYPICAL PEAK WAVE- LENGTH RANGE (NM)	TYPICAL FORWARD VOLTAGE (V _f)	LUMENS @ 350MA	TYPICAL WATTAGE (W)*
L011-L1C18270P	2700K	80	19.25	658	6.75
L011-L1C18300Q	3000K	80	19.25	714	6.75
L011-L1C18400R	4000K	80	19.25	791	6.75
L011-L1C17500S	5000K	70	19.25	819	6.75
L011-L1C17650S	6500K	70	19.25	833	6.75
L011-L1C1AMB0B	Amber	585-600	14.35	210	5.02
L011-L1C1BLU0D	Blue	465-485	21.56	301	7.55
L011-L1C1CYN0P	Cyan	490-510	21.35	700	7.50
L011-L1C1DRD0C	Deep Red	655-675	14.35	2660 ²	5.02
L011-L1C1FRD0D	Far Red	720-750	13.3	2380 ²	4.66
L011-L1C1GRN0T	Green	520-540	21.35	987	7.50
L011-L1C1LME0U	Lime	-	19.25	1043	6.75
L011-L1C1PCA0Q	PC Amber	-	19.25	770	6.75
L011-L1C1RED0E	Red	624-634	14.35	343	5.02
L011-L1C1RDO0H	Red Orange	614-624	14.35	420	5.02
L011-L1C1ROY0J	Royal Blue	440-460	21.35	3864 ²	7.50
L011-L1C1VLT0K	Violet	420-430	19.81	4165 ²	6.94

1. Values specified @ 350mA, T_j 85°C - for more specs, visit emitter data sheet [here](#).

2. Far Red, Deep Red, Royal Blue, & Violet binned by radiometric power. All other colors are binned by luminous flux.



LUXEON C 7-UP LED MODULE

Luxeon C Diode Specific Maximum Ratings

Color	DC Current (mA)	Typ. Viewing Angle	Thermal Resistance (°C/W)*
Amber	1050	162°	1.40°
Blue	1050	170°	1.50°
Cyan	1050	170°	1.50°
Deep Red	700	162°	1.40°
Far Red	700	162°	1.40°
Green	1050	170°	1.50°
Lime	1225	145°	1.40°
PC Amber	1050	150°	1.43°
Red	1050	162°	1.40°
Red Orange	1050	162°	1.40°
Royal Blue	1050	165°	1.40°
Violet	1225	165°	1.54°
White	1225	150°	1.40°

*LED junction to bottom of starboard (MCPCB), measured in °C/W

Accessories for 7-up Luxeon C LED Module

LED Drivers

LUXdrive™ offers a line of drivers designed for use with high-power LED modules. 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 L011 uses seven (7) 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 three locations on the L011. A #4 screw should be used when mounting. Make certain to not damage the resistors on the board.

Optics

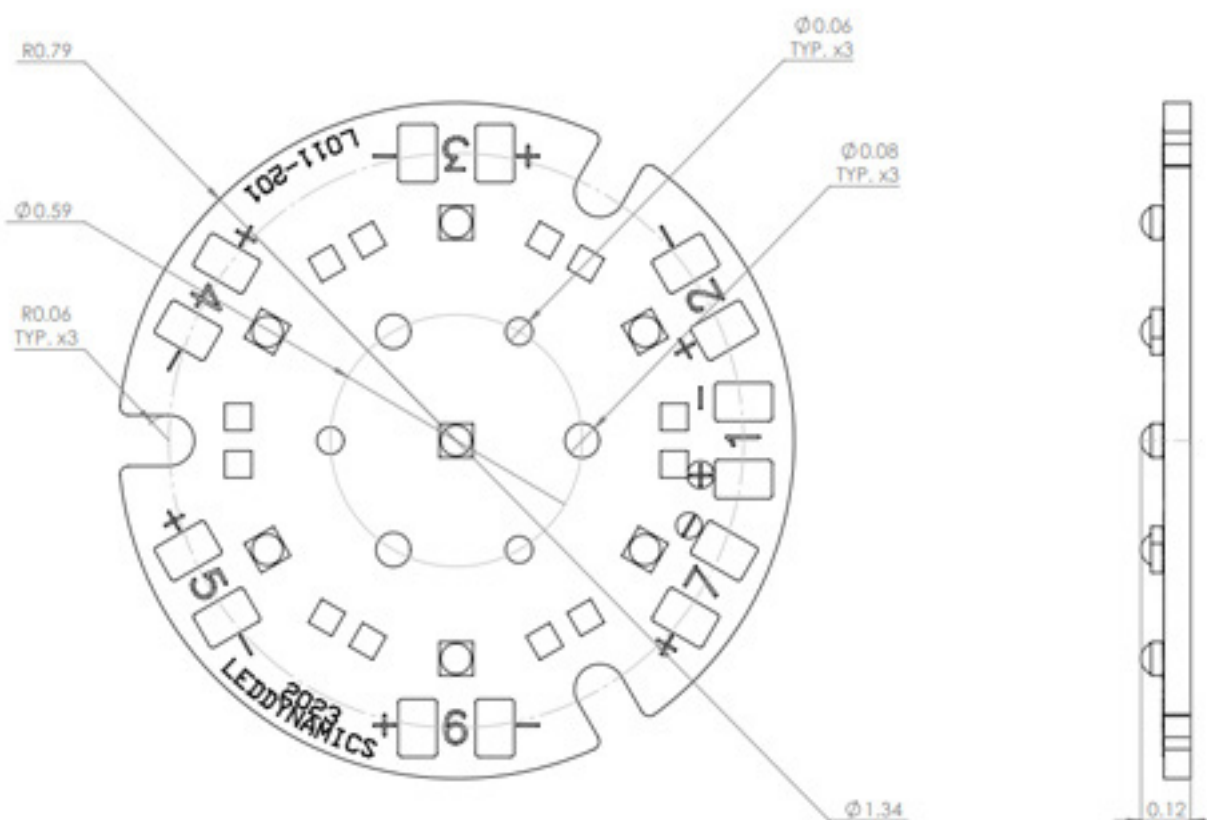
The L011 is compatible with Khatod's Zeta optic line. The 7-up optics can help direct the powerful beam of light while still remaining low profile at just 0.532" tall mounted with the optic. The narrow beam optic PL121106 is the best fit for this LED, please let us know if you require a wider beam angle.





7-UP LED MODULE DIMENSIONS

(Units: Inches)



MECHANICAL SPECS

Specification	Imperial	Metric
Diameter	1.57"	40mm
Height (no optic)	0.118"	3mm
Height (with optic)	0.532"	13.52mm
Weight	0.075 oz	5.3g