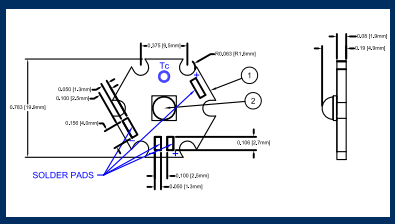
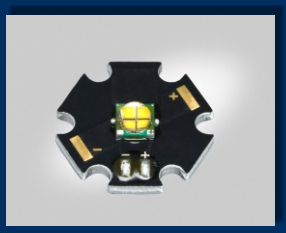
L2 Starboard Light Engines

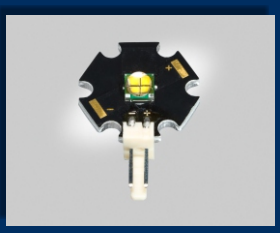
Featuring CREE XLamp XM-L Dice Design

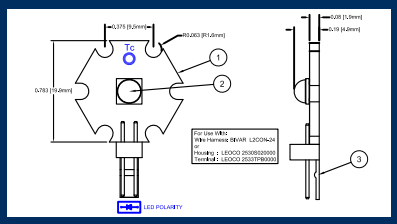
L2-ML Starboard





L2-ML Starboard With Connector





The L2 Series is optimized for high output, high CRI, and lighting uniformity, making it ideal for directional lighting applications. It delivers light with consistent CCT, in a highly efficient package that enables true halogen performance in a thermally constrained design. The products in this series provide the lighting industry with efficient and environmentally-friendly LED lighting.

Features

- Luminous Output: 103 ~ 144 Lumens at 400mA and 169 ~ 236 Lumens at 750mA.
- Unique factory Tc (case temperature test point) for max current drive and temperature control.
- Optional pin headers allows quick hook-up, eliminates delicate soldering process.
- Low Voltage Input: 2.9VDC.
- 125° Viewing Angle.
- Low Thermal Resistance.
- CCT (Correlated Color Temperature): 3100K / 4100K / 6500K.
- CRI (Color Rendering Index): 80 / 75 / 65.

Applications

- Indoor Directional Lighting
  - Accent Lighting / Track Lighting / Spot Lights
- Indoor Commercial Lighting
  - High and Low Bay Lighting (Ex.: Distribution Center / Warehouse)
- Outdoor Landscape Lighting
  - Path Lighting / Step Lighting
- Outdoor Roadway and Parking Lighting
  - Tunnel Lighting / Parking Garage / Parking Lot / Street and Road Lighting
- Outdoor Portable Lighting
  - Headlamp Lights / Flash Lights / Bicycle Lights
- Outdoor Solar-Powered Lighting (off-grid)

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Table 1: Typical Characteristics without Additional Heat Sink						
Part Number	CCT (K)	CRI	Typical Luminous Flux @ If = 400mA, Tc=70C (lm)	Typical Luminous Flux @ If = 750mA, Tc=100C (lm)	Typical DC Forward Current,Vf (V)	Viewing Angle, Axis 1 / Axis2 (°)
L2-MLC1-F	6500	65	144	236	2.8 ~ 2.9	125
L2-MLC1-S	6500	65	144	236	2.8 ~ 2.9	125
L2-MLN1-F	4100	75	124	202	2.8 ~ 2.9	125
L2-MLN1-S	4100	75	124	202	2.8 ~ 2.9	125
L2-MLW1-F	3100	80	103	169	2.8 ~ 2.9	125
L2-MLW1-S	3100	80	103	169	2.8 ~ 2.9	125

Table 2: Absolute Maximum Ratings with Thermal Management						
Part Number	CCT (K)	CRI	Typical Luminous Flux @ If = 1000mA, Tc=110C (lm)	Typical Luminous Flux @ If = 3000mA, Tc=60C (lm)	Typical DC Forward Current,Vf (V)	Viewing Angle, Axis 1 / Axis2 (°)
L2-MLC1-F	6500	65	281	660	3.0 ~ 3.3	125
L2-MLC1-S	6500	65	281	660	3.0 ~ 3.3	125
L2-MLN1-F	4100	75	241	566	3.0 ~ 3.3	125
L2-MLN1-S	4100	75	241	566	3.0 ~ 3.3	125
L2-MLW1-F	3100	80	201	472	3.0 ~ 3.3	125
L2-MLW1-S	3100	80	201	472	3.0 ~ 3.3	125

* Please do not drive L2 Starboards at maximum ratings more than 5 seconds without proper Heat Sink / Thermal Management.

** -S = Starboard w/out connector header.

*** -F = Starboard w/connector header.