

# LUMILEDS LUXEON C Starboards

Industry Leading High Powered LED Starboards

# Data Sheet

Version 1.0

## Lean & Fast. Made Smarter.

**Superior Performance** – Stay current with the highest intensity LEDs

**Design Faster** – Use industry standard starboards to shorten development time

**Maximum Flexibility** – Design to your exact specifications using the full spectrum of NewEnergy starboards

**Rapid Innovation** – Work with NewEnergy on your custom solution

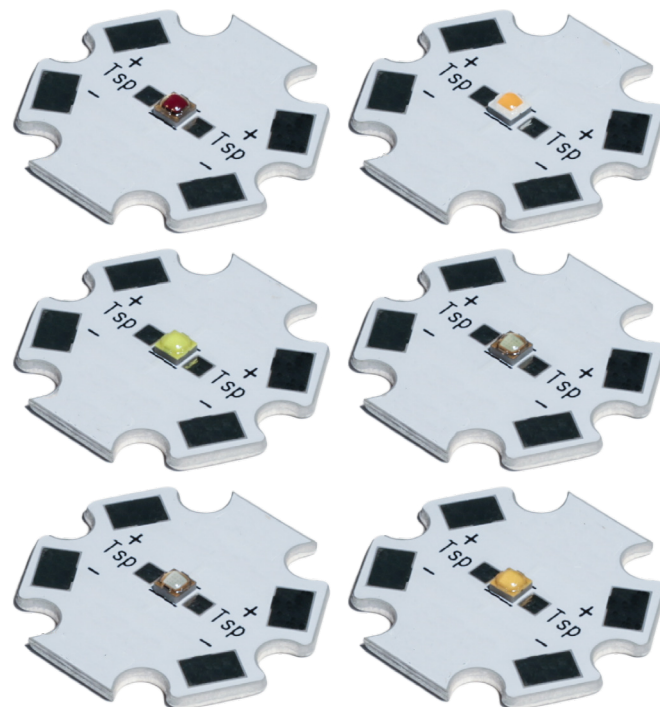
## Primary Applications



Architectural  
Emergency Vehicle  
Downlight



Stage/concert  
Spot lighting  
Floodlight



## Superior Performance with Flexible Options

- Multiple color options for your application
- Single focal length for all colors to ensure superior mixing
- Small source size reduces the size of secondary optics
- Prototype faster, test multiple options

## Custom Solutions

NewEnergy operates facilities globally with ISO certifications for the LED lighting, automotive and medical industries. Our North Carolina based office provides quick engineering & sales support with an R&D lab for prototype development and custom solutions. Our in-house global manufacturing capabilities allow for both building in the United States as well as overseas at scale.

## About NewEnergy

NewEnergy accelerates the adoption of LED technology through simple, modular products and custom designs. Through 30 years of experience, state of the art manufacturing, full traceability and advanced quality controls, NewEnergy offers leading solid state lighting components, modules and custom solutions. NewEnergy customers get to market faster, with less resources, at lower costs. Visit [new-energyllc.com](http://new-energyllc.com) for more information.



**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
SENSITIVE DEVICES

# LUMILEDS LUXEON C Starboards

## Product Selection Guide

| Part Number        | CRI/Color | CCT/<br>Typical Peak<br>Wavelength<br>Range | Typical<br>Viewing Angle | Typical<br>Luminous<br>Flux (mW) | Typical<br>Forward<br>Voltage (Vf) | Typical<br>Wattage (W) |
|--------------------|-----------|---------------------------------------------|--------------------------|----------------------------------|------------------------------------|------------------------|
| LST1-01H06-RED1-01 | Red       | 624-634                                     | 162°                     | 49                               | 2.00                               | 0.70                   |
| LST1-01H06-PCA1-01 | Amber     | n/a <sup>(2)</sup>                          | 162°                     | 94                               | 2.75                               | 0.96                   |
| LST1-01H06-LME1-01 | Lime      | n/a <sup>(2)</sup>                          | 145°                     | 135                              | 2.75                               | 0.96                   |
| LST1-01H06-GRN1-01 | Green     | 520-540                                     | 170°                     | 141                              | 3.05                               | 1.07                   |
| LST1-01H06-BLU1-01 | Blue      | 465-485                                     | 170°                     | 43                               | 2.84                               | 0.99                   |
| LST1-01H06-VLT1-01 | Violet    | 420-430                                     | 165°                     | 595                              | 2.83                               | 0.99                   |
| LST1-01H06-3080-01 | 80        | 3000K                                       | 150°                     | 102                              | 2.75                               | 0.96                   |
| LST1-01H06-4080-01 | 80        | 4000K                                       | 150°                     | 113                              | 2.75                               | 0.96                   |

<sup>(1)</sup>Flux, wavelength, and wattage values specified at 350mA, T<sub>j</sub> 85°C

<sup>(2)</sup>Amber and Lime starboards are binned by chromaticity coordinates, see LUMILEDS LED datasheet for values.

All values shown above are typical.

Additional colors available upon request.

## Maximum Ratings

| Part Number        | DC Current (A) | Tsp Temp (°C) | Power (W) |
|--------------------|----------------|---------------|-----------|
| LST1-01H06-RED1-01 | 1.05           | 105           | 2.6       |
| LST1-01H06-PCA1-01 | 1.05           | 105           | 3.7       |
| LST1-01H06-LME1-01 | 1.23           | 105           | 4.3       |
| LST1-01H06-GRN1-01 | 1.05           | 105           | 3.7       |
| LST1-01H06-BLU1-01 | 1.05           | 105           | 3.7       |
| LST1-01H06-VLT1-01 | 1.23           | 105           | 4.3       |
| LST1-01H06-x080-01 | 1.23           | 105           | 4.3       |

## Mechanical Dimensions (Units: Inches)

