

# LUMILEDS LUXEON C/CZ RGBW Starboards Data Sheet

Industry Leading High Powered LED Starboards

Version 1.0

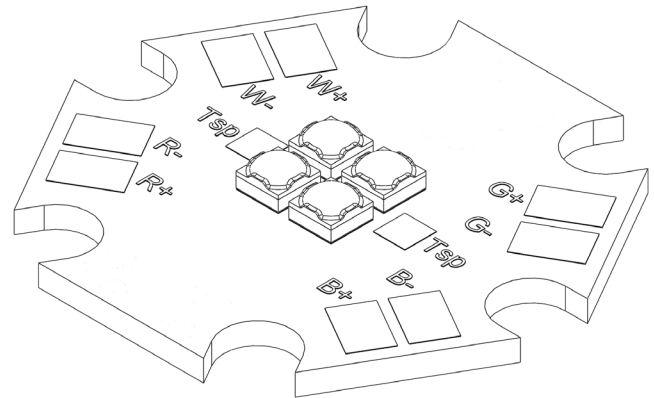
## Lean & Fast. Made Smarter.

**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  
Medical



Downlight  
Stage/concert  
Spot lighting

## Superior Performance with Flexible Options

- Individually control each color channel separately
- Compact .25" LES for better color mixing and optic compatibility
- 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.

# LUMILEDS LUXEON C/CZ RGBW Starboards

## Product Selection Guide

Part Number	LED Series	CRI/Color	CCT/ Typical Peak Wavelength Range	Typical Luminous Flux (mW)	Typical Forward Voltage (Vf)	Typical Wattage (W)
LST1-04H06-RGBW-01	Luxeon C	Red	624-634	49	2.00	0.70
		Green	520-540	141	3.05	1.07
		Blue	465-485	43	2.84	0.99
		80	3000K	102	2.75	0.96
LST1-04H07-RGBW-01	Luxeon CZ	Red	624-634	31	2.00	0.70
		Green	520-540	117	3.05	1.07
		Blue	465-485	34	2.83	0.99
		80	3000K	95	2.75	0.96

<sup>0</sup>Flux, wavelength, and wattage values specified at 350mA, T<sub>j</sub> 85°C  
 All values shown above are typical.  
 Additional colors available upon request.

## Maximum Ratings

Part Number	LED Series	Channel	DC Current (A)	Tsp Temp (°C)	Power (W)
LST1-04H06-RGBW-01	Luxeon C	Red	1.05	105	2.6
		Green	1.05	105	3.7
		Blue	1.05	105	3.7
		White	1.23	105	4.3
LST1-04H07-RGBW-01	Luxeon CZ	Red	1.05	105	2.6
		Green	1.05	105	3.7
		Blue	1.05	105	3.7
		White	1.23	105	4.3

## Mechanical Dimensions

