

# Cree JR5050 6V 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

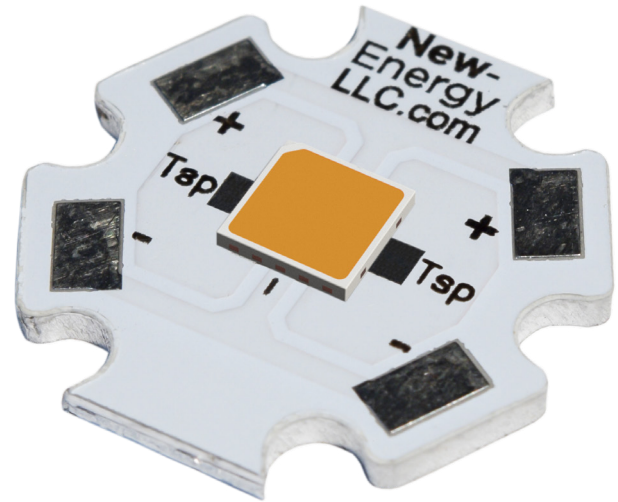
**Maximum Flexibility** - Design to your exact specifications using NewEnergy starboards

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

## Primary Applications



|               |          |
|---------------|----------|
| Horticulture  | Canopy   |
| Entertainment | Garage   |
| Stage/concert | Portable |
| Spot lighting | High bay |
| Architectural |          |



## 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 a 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.

# Cree JR5050 6V Starboards

## Product Selection Table

| Part Number           | CCT   | CRI | Luminous Flux (lm) |            | Efficacy Nominal (lm/W) | Watts (W) |     |
|-----------------------|-------|-----|--------------------|------------|-------------------------|-----------|-----|
|                       |       |     | Nominal 400mA      | Max 1000mA |                         | Nominal   | Max |
| LST1-01C48-6V-2770-01 | 2700K | 70  | 412                | 927        | 181                     | 2.27      | 6.5 |
| LST1-01C48-6V-2780-01 | 2700K | 80  | 389                | 875        | 171                     | 2.27      | 6.5 |
| LST1-01C48-6V-3070-01 | 3000K | 70  | 433                | 974        | 191                     | 2.27      | 6.5 |
| LST1-01C48-6V-3080-01 | 3000K | 80  | 404                | 909        | 178                     | 2.27      | 6.5 |
| LST1-01C48-6V-3570-01 | 3500K | 70  | 440                | 990        | 194                     | 2.27      | 6.5 |
| LST1-01C48-6V-3580-01 | 3500K | 80  | 415                | 934        | 183                     | 2.27      | 6.5 |
| LST1-01C48-6V-4070-01 | 4000K | 70  | 455                | 1024       | 200                     | 2.27      | 6.5 |
| LST1-01C48-6V-4080-01 | 4000K | 80  | 425                | 956        | 187                     | 2.27      | 6.5 |
| LST1-01C48-6V-5070-01 | 5000K | 70  | 455                | 1024       | 200                     | 2.27      | 6.5 |
| LST1-01C48-6V-5080-01 | 5000K | 80  | 425                | 956        | 187                     | 2.27      | 6.5 |
| LST1-01C48-6V-5770-01 | 5700K | 70  | 455                | 1024       | 200                     | 2.27      | 6.5 |
| LST1-01C48-6V-5780-01 | 5700K | 80  | 425                | 956        | 187                     | 2.27      | 6.5 |
| LST1-01C48-6V-6570-01 | 6500K | 70  | 455                | 1024       | 200                     | 2.27      | 6.5 |
| LST1-01C48-6V-6580-01 | 6500K | 80  | 425                | 956        | 187                     | 2.27      | 6.5 |

All values shown above are typical @25°C.  
Do not look into the light that is emitting from these LEDs as it is harmful to the human eye.  
Eye injury may result. Use skin and eye protection as necessary.

## Maximum Ratings

| Part Number     | DC Current (A) | Forward Voltage (V) | Tsp Temp (°C) | Power (W) |
|-----------------|----------------|---------------------|---------------|-----------|
| LST1-01C48-6V-x | 1.00           | 6.5                 | 105           | 6.5       |

## Dimensions

(Units: Inches)

