46° RGBW Recessed House Light

**ELECTRICAL**
ETL listed with Universal AC input 100 to 277 V, 50/60 Hz. Limited inrush current allows up to twelve fixtures on a 20 Amp circuit. Quiescent power is less than two Watts with fixture powered on and DMX at level zero. The LED driver has greater than a 320,000 hour mean time between failures. Includes the UL required thermal protector that is specific to the supply voltage.

**DIMMING CONTROL**
Extremely smooth DMX controlled analog dimming all the way to zero output level. 32 bit processing produces no flicker to the eye or video with either line scan or global shutter cameras. 4 or 5 channel DMX controlled. (4 channel–Intensity R-G-B) or 5 channel, (Intensity–Intensity–Intensity–R–G–B). DMX input is fully isolated to 2500 Volts per microsecond. Internal display for setting parameters and DMX addresses. The DMX controller is RDM enabled for address and mode setting, as well as for monitoring internal temperatures.

**RGBW LED MODULE**
Color mix incredibly rich colors using up to 120 Watts of any single color or combination of colors. The individual Cree LEDs are carefully selected to maintain minimal color variance from fixture to fixture. Light quality has a pleasing full spectrum with all the visible colors represented. All LED modules and dimmers are manufactured at The Light Source in Charlotte, NC. Extensive production testing ensures over 105,000 hour life to L70. No appreciable IR or UV is produced by the LED module. The LED Module is field replaceable utilizing normal hand tools.

**OPTICAL**
Single source LED emulates the look and feel of an incandescent fixture. 6” diameter tempered borosilicate glass Fresnel lens produces an extremely smooth light beam. The beam center intensity value spreads evenly to the edge of the beam with a small field, producing low glare.

**THERMAL**
Incredible thermal management keeps the LEDs cool, providing increased brightness and Lumen maintenance. Maximum heat exchange provided with a huge passive convection-cooled aluminum heat sink. Silent operation with no fans to generate noise. Maximum ambient operating temperature is 122 degrees F (50 degrees C).

**WARRANTY**
10 Year parts replacement on complete LED fixture and electronics. Ship the LED fixture to the factory freight prepaid. The LED fixture will be repaired or replaced at the factory’s option, and returned freight prepaid. Fixture repair parts may also be sent for qualified repairs onsite. Damage from improper wiring, installation, and lightning are excluded from warranty repair.

**AGENCY RATINGS**
ETL listed in US and Canada

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**Catalog Number Example: RL120B46-30EJR-RGB**

<table>
<thead>
<tr>
<th>FIXTURE SERIES</th>
<th>INPUT WATTAGE</th>
<th>TRIM RING FINISH</th>
<th>OPTICAL BEAM ANGLE</th>
<th>LED COLOR TEMPERATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL Recessed</td>
<td>120</td>
<td>B Matte Black Powder Coat</td>
<td>72 72° 6° Fresnel lens</td>
<td>27K 2700 Kelvin</td>
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<tr>
<td></td>
<td></td>
<td>BG Semi-Gloss Black  Powder Coat</td>
<td>60 60° 6° Fresnel lens</td>
<td>30K 3000 Kelvin</td>
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<tr>
<td></td>
<td></td>
<td>C Custom RAL Color   Powder Coat</td>
<td>46 46° 6° Fresnel lens</td>
<td>35K 3500 Kelvin</td>
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<td>W Semi-Gloss White   Powder Coat</td>
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<td>40K 4000 Kelvin</td>
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<td></td>
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<td>WM Matte White Powder Coat</td>
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<td>50K 5000 Kelvin</td>
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<td>56K 5600 Kelvin</td>
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<td>60K 6000 Kelvin</td>
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</tbody>
</table>

**POWER CONNECTION**

<table>
<thead>
<tr>
<th>POWER CONNECTION</th>
<th>DATA CONNECTION</th>
<th>FIXTURE SUPPORT METHOD</th>
<th>LED Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>E 120V Thermal Sensor</td>
<td>I IDC Plug on Header</td>
<td>R Recessed 11° diameter Rough In</td>
<td>RGB RGB-W</td>
</tr>
<tr>
<td>F 200V Thermal Sensor</td>
<td>J External RJ-45's</td>
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<tr>
<td>G 220V Thermal Sensor</td>
<td>N Non Dimming Fixture - No Data</td>
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<tr>
<td>H 240V Thermal Sensor</td>
<td>T Screw Terminal Plug on Header</td>
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<tr>
<td>I 277V Thermal Sensor</td>
<td>W Wireless Lumen Radio Control</td>
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<td></td>
<td>X External 5 Pin XLR's</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Z External 3 Pin XLR's</td>
<td></td>
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</tr>
</tbody>
</table>

E-mail: LED@thelightsource.com  Web site: www.thelightsource.com  Phone: 704-504-8399  Address: 3935 Westinghouse Blvd, Charlotte, NC 28273  [V160713]
Test Results – Illuminance Plots

The following images depict the illuminance characteristics of the luminaire.

![Illuminance at a Distance](image1)

- **Illuminance at a Distance**
  - **Center Beam fc**: 2,539 fc
  - **Beam Width**:
    - 1.7 ft: 1.5 ft
    - 3.3 ft: 2.8 ft
    - 5.0 ft: 4.3 ft
    - 6.7 ft: 5.8 ft
    - 8.3 ft: 7.1 ft
    - 10.0 ft: 8.6 ft
  - **Beam Spread**: 46.5°

- **Illuminance at a Distance**
  - **Center Beam fc**: 2,539 fc
  - **Field Width**:
    - 1.7 ft: 2.6 ft
    - 3.3 ft: 5.1 ft
    - 5.0 ft: 7.7 ft
    - 6.7 ft: 10.4 ft
    - 8.3 ft: 12.9 ft
    - 10.0 ft: 15.5 ft
  - **Vert. Spread**: 75.5°
  - **Horiz. Spread**: 76.0°

Test Results – Candela Plots

The following images depict the luminous intensity distribution characteristics of the luminaire:

![Candela Plots](image2)

- **Isofootcandle Plot**
- **Isocandela Plot**
- **Polar Candela**

- **Maximum Candela**: 7,387.6 at Horizontal: 315°, Vertical: 5°