FUSION FREEDOM™

Experience the FREEDOM of the next generation of LED lighting modules. Choose your intensity, beam angle, and color with this groundbreaking, universal module.

FEATURES

• Universal module optimized for simple customization to reduce inventory
• Simple wiring system allows three levels of brightness
• Removable and replaceable lenses for various depths and diffusion
• Over 30 lens colors allow for endless customization
• Qwik Release Tab for faster install

SPECIFICATIONS

Beam Angle Removable Batwing Optic
Certifications UL & cUL Recognized (SAM Manual), CE, CSA, RoHs
Dimensions 0.87”W x 0.99”L x 0.34”H
Efficacy See Product Options
Fastening Peel & stick / Mechanical screw hole
Input 12VDC
Intensity See Product Options
Max Mods (Series) Full 60W Load
Operating Temp -40° to +60°C
Packaging 25 ft (50 mods) per bag or 100 ft (200 mods) per box
Power See Product Options
Power Supply P-LED 12VDC
Protection Grade IP66
Run Footage See Product Options
Spacing 2 mods/ft (fully stretched)
Warranty 5 Year Product / 5 Year Limited Labor

WIRING DETAILS

Gray Negative
White Positive (Low)
White/Black Positive (Medium)
White & White/Black Positive (High)

WIRING DIAGRAM

Positive (+) wires can be wired individually or together back to the 12V PS to achieve desired output. See data sheet for load requirements.

FREE POWER SUPPLIES!

Receive two FREE PL-60-12-U (120VAC Input) power supplies when you purchase any 100 foot box of Fusion Freedom. Hurry, only for a limited time.

Valid while supplies last or until 12-31-2016.
PRODUCT OPTIONS

<table>
<thead>
<tr>
<th>Color</th>
<th>CCT</th>
<th>Setting</th>
<th>Efficacy</th>
<th>Intensity</th>
<th>Power</th>
<th>Run Footage</th>
<th>Part Number***</th>
</tr>
</thead>
<tbody>
<tr>
<td>True White*</td>
<td>7000K</td>
<td>Low</td>
<td>117 LM/W</td>
<td>70 LM/mod (140 LM/ft.)</td>
<td>0.6W/mod (1.2W/ft.)</td>
<td>50’</td>
<td>PL-FS2-TW5-P</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medium</td>
<td>102 LM/W</td>
<td>95 LM/mod (190 LM/ft.)</td>
<td>0.93W/mod (1.86W/ft.)</td>
<td>30’</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>High</td>
<td>98 LM/W</td>
<td>117 LM/mod (234 LM/ft.)</td>
<td>1.2W/mod (2.4W/ft.)</td>
<td>25’</td>
<td></td>
</tr>
<tr>
<td>Sign White**</td>
<td>6500K</td>
<td>Low</td>
<td>117 LM/W</td>
<td>70 LM/mod (140 LM/ft.)</td>
<td>0.6W/mod (1.2W/ft.)</td>
<td>50’</td>
<td>PL-FS2-SW5-N</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medium</td>
<td>102 LM/W</td>
<td>95 LM/mod (190 LM/ft.)</td>
<td>0.93W/mod (1.86W/ft.)</td>
<td>30’</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>High</td>
<td>98 LM/W</td>
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<td>1.2W/mod (2.4W/ft.)</td>
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<td></td>
</tr>
</tbody>
</table>

*7000K True White comes standard with batwing optic. **Use 6500K Sign White with mix and match lens system. Lenses sold separately. ***“-N” denotes no lens, “P” denotes the lens is factory installed.

RECOMMENDED COVERAGE CHART

<table>
<thead>
<tr>
<th>Depth*</th>
<th>Max. Stroke</th>
<th>Spacing</th>
<th>With or without lens</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Single Row</td>
<td>Multi-Row O.C.</td>
<td></td>
</tr>
<tr>
<td>3&quot;</td>
<td>5&quot;</td>
<td>4&quot;</td>
<td>Lens (3 mods/ft)</td>
</tr>
<tr>
<td>4&quot;</td>
<td>10&quot;</td>
<td>5&quot;</td>
<td>Lens</td>
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<tr>
<td>5&quot;</td>
<td>12&quot;</td>
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<td>Lens</td>
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<tr>
<td>6&quot;</td>
<td>14&quot;</td>
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<td>Lens</td>
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<td>7&quot;</td>
<td>16&quot;</td>
<td>10&quot;</td>
<td>Lens</td>
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<td>8&quot;</td>
<td>16&quot;</td>
<td>12&quot;</td>
<td>Lens</td>
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<tr>
<td>6&quot;</td>
<td>10&quot;</td>
<td>7&quot;</td>
<td>Without Lens</td>
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<tr>
<td>7&quot;</td>
<td>12&quot;</td>
<td>8&quot;</td>
<td>Without Lens</td>
</tr>
<tr>
<td>8&quot;</td>
<td>12&quot;</td>
<td>10&quot;</td>
<td>Without Lens</td>
</tr>
</tbody>
</table>

Note: Product and depth may vary depending on face material and desired brightness.

Removable and replaceable lenses for various colors, depths and diffusion. View the Lens Collection on page 14.
**FUSION FREEDOM**

**LENS COLLECTION**

Let your brand colors shine! The Fusion Freedom lens collection includes a wide variety of bold and subtle colors and a complete range of white temperatures ranging from 2700K to 9000K.

### FEATURES

- Removable and replaceable lenses for variable depths and diffusion
- Lenses available in non-standard colors to give you endless options
- Qwik Grab Tab for easy change-out

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beam Angle</td>
<td>Low Dome Batwing Optic</td>
</tr>
<tr>
<td>Dimensions</td>
<td>0.47&quot; W x 0.96&quot; L x 0.21&quot; H</td>
</tr>
<tr>
<td>Fastening</td>
<td>Removable</td>
</tr>
<tr>
<td>Packaging</td>
<td>Bag of 50</td>
</tr>
</tbody>
</table>

### CLEAR LENS

- **PL-L000** Clear, Frosted
- **PL-L001** Water Clear

### WHITES LENS

- **PL-L27K** 2700K Incandescent White
- **PL-L30K** 3000K Deep Warm White
- **PL-L35K** 3500K Warm White
- **PL-L41K** 4100K Medium White
- **PL-L45K** 4500K Full Sun White
- **PL-L50K** 5000K Natural White
- **PL-L55K** 5500K Neutral White
- **PL-L63K** 5800K Bright White
- **PL-L83K** 8300K Cool White

### COLORS LENS

- **PL-L738** Electric Green
- **PL-L088** VP Green
- **PL-L322** Turquoise
- **PL-L131** Sea Crest
- **PL-L183** Horizon Blue
- **PL-L063** Powder Blue
- **PL-L797** Bromo Purple
- **PL-L170** Lilac
- **PL-L794** Lavender Rose
- **PL-L328** Neon Flamingo
- **PL-L148** Magenta
- **PL-L135** Coral Pink
- **PL-L109** Pretty in Pink
- **PL-L182** Crimson
- **PL-L778** Sunset Orange
- **PL-L105** Orange Peel
- **PL-L767** Novial Gold
- **PL-L010** Clear Bright Yellow

- Custom colors also available!
FUSION FREEDOM COLORS™

Experience the FREEDOM of the first universal LED module in standard Red, Green, and Blue LEDs with easy ID colored housings.

FEATURES

- Standard Red, Green, and Blue are available with the same advantages of the Fusion Freedom design
- Optimized for simple customization to reduce your inventory needs
- Simple wiring system allows three levels of brightness
- Use removable and replaceable optic lenses for shallow cabinets and channel letters

SPECIFICATIONS

- Beam Angle: Removable Batwing Optic
- Certifications: UL & cUL Recognized (SAM Manual), CE, RoHs, CSA
- Dimensions: 0.87”W x 0.99”L x 0.34”H
- Efficacy: See Product Options
- Fastening: Peel & stick / Mechanical screw hole
- Input: 12VDC
- Intensity*: See Product Options
- Max. Mods: N/A
- Operating Temp: -40° to +60°C
- Packaging: 25 ft (50 mods) per bag or 100 ft (200 mods) per box
- Power: See Product Options
- Power Supply: P-LED 12VDC
- Protection Grade: IP66
- Run Footage: See Product Options
- Spacing: 2 mods/ft (fully stretched)
- Warranty: 5 Year Product / 5 Year Limited Labor

*Reduce Intensity by 10% if optical lens is used

WIRING DETAILS

- Gray: Negative
- White: Positive (Low)
- White/Black: Positive (Medium)
- White & White/Black: Positive (High)

WIRING DIAGRAM

Positive (+) wires can be wired individually or together back to the 12V PS to achieve desired output. See data sheet for load requirements.
## PRODUCT OPTIONS

<table>
<thead>
<tr>
<th>Color</th>
<th>Wavelength</th>
<th>Setting</th>
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<th>Intensity</th>
<th>Power</th>
<th>Run Footage</th>
<th>Part Number*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>625nm</td>
<td>Low</td>
<td>32 LM/W</td>
<td>19 LM/mod (38 LM/ft)</td>
<td>0.6W/mod (1.2W/ft)</td>
<td>50'</td>
<td>PL-FS2-RD5-N</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medium</td>
<td>25 LM/W</td>
<td>23 LM/mod (46 LM/ft)</td>
<td>0.93W/mod (1.86W/ft)</td>
<td>30'</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>High</td>
<td>21 LM/W</td>
<td>25 LM/mod (50 LM/ft)</td>
<td>1.2W/mod (2.4W/ft)</td>
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<tr>
<td>Green</td>
<td>525nm</td>
<td>Low</td>
<td>37 LM/W</td>
<td>22 LM/mod (44 LM/ft)</td>
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<td></td>
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<td>Medium</td>
<td>31 LM/W</td>
<td>29 LM/mod (58 LM/ft)</td>
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<tr>
<td>Blue</td>
<td>460nm</td>
<td>Low</td>
<td>9 LM/W</td>
<td>5 LM/mod (10 LM/ft)</td>
<td>0.6W/mod (1.2W/ft)</td>
<td>50'</td>
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<tr>
<td></td>
<td></td>
<td>Medium</td>
<td>8 LM/W</td>
<td>7 LM/mod (14 LM/ft)</td>
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**-N** denotes no lens, “P” denotes lens factory installed

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**Fusion Freedom™**

**REV082416**

www.p-led.com • 325-227-4577 • sales@p-led.com