Discreet, rail-mounted, hidden source LED lighting system featuring an optically clear directional lens.

Compact (1 ¼” x 1 ¼”) and tamper-resistant fixture offers hidden linear light source and full spectrum LEDs. Polycarbonate co-extruded directional lens with matte finish, features 65° lighting cut-off for hidden, discreet illumination. An optional row indicator window is available.

Efficient, modular design incorporates replaceable single SMP Titanium LED module that easily snap into Titanium series modules for easy and economical maintenance.

Use with Two-Tone Bullnose stair nosing with reflective edge.

**Mounting**

1 ½” diameter pole mount clamps offer 2” of adjustability based on specified lengths.

i.e. 36” can be field adjusted to a 34” or 38” length.

**Applications**

Ideal for rail mounted aisle and step applications.

**Warranty**

5 years

---

**Technical Information**

<table>
<thead>
<tr>
<th>LEDs Spacing</th>
<th>6”</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Lumens/ft</td>
<td>39</td>
</tr>
<tr>
<td>*Watts/ft</td>
<td>1.1</td>
</tr>
<tr>
<td>*Lumen/watt</td>
<td>35</td>
</tr>
<tr>
<td>CRI</td>
<td>&gt;80/TYP83</td>
</tr>
<tr>
<td>Kelvin Temp</td>
<td>1900K, 2700K, 3000K, 3500K, 4000K (+/- 80K) 3SDCM, Red, Blue, Amber</td>
</tr>
<tr>
<td>Rated Life</td>
<td>75,000 hrs.</td>
</tr>
<tr>
<td>Operating Voltage</td>
<td>12V DC</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Class 2</td>
</tr>
<tr>
<td>Dimmable</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* 3000K Sample, Single Illumination System

---

**Profile Dimensions**

**Single Illumination System**

- 1 ½”
- 1 ¼”
- 1 ¼”
- 65°

**Double Illumination System**

- 2 ⅞”
- 1 ½”
- 65°

---

Optional Row Indicator Window

AAA
## Recommended Power Supplies

### ADUL - NON DIMMING

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT NO</th>
<th>APPLICATION</th>
<th>PRIMARY VOLTAGE</th>
<th>SECONDARY VOLTAGE</th>
<th>CIRCUIT BREAKERS</th>
<th>MAX LOAD</th>
<th>CIRCUIT CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADUL Series</td>
<td>ADUL80-1-5-12-D</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>5x60 Hz</td>
<td>1</td>
<td>60W</td>
<td>5A</td>
</tr>
<tr>
<td>Class 2</td>
<td>ADUL150-2-5-12-D</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>5x60 Hz</td>
<td>2</td>
<td>2x60W</td>
<td>2x5A</td>
</tr>
<tr>
<td>Transformer</td>
<td>ADUL240-3-5-12-D</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>5x60 Hz</td>
<td>3</td>
<td>3x60W</td>
<td>3x5A</td>
</tr>
<tr>
<td></td>
<td>ADUL320-4-5-12-D</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>5x60 Hz</td>
<td>4</td>
<td>4x60W</td>
<td>4x5A</td>
</tr>
</tbody>
</table>

### ADUL - 0-10V DIMMING

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT NO</th>
<th>APPLICATION</th>
<th>PRIMARY VOLTAGE</th>
<th>SECONDARY VOLTAGE</th>
<th>CIRCUIT BREAKERS</th>
<th>MAX LOAD</th>
<th>CIRCUIT CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADUL Series</td>
<td>ADUL80-1-5-12-DOT</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>5x60 Hz</td>
<td>1</td>
<td>60W</td>
<td>5A</td>
</tr>
<tr>
<td>Class 2</td>
<td>ADUL150-2-5-12-DOT</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>5x60 Hz</td>
<td>2</td>
<td>2x60W</td>
<td>2x5A</td>
</tr>
<tr>
<td>Transformer</td>
<td>ADUL240-3-5-12-DOT</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>5x60 Hz</td>
<td>3</td>
<td>3x60W</td>
<td>3x5A</td>
</tr>
<tr>
<td></td>
<td>ADUL320-4-5-12-DOT</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>5x60 Hz</td>
<td>4</td>
<td>4x60W</td>
<td>4x5A</td>
</tr>
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</table>

### ADUL - DMX SINGLE ADDRESS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT NO</th>
<th>APPLICATION</th>
<th>PRIMARY VOLTAGE</th>
<th>SECONDARY VOLTAGE</th>
<th>CIRCUIT BREAKERS</th>
<th>MAX LOAD</th>
<th>CIRCUIT CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADUL Series</td>
<td>ADUL80-1-5-12-DIN</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>5x60 Hz</td>
<td>1</td>
<td>60W</td>
<td>5A</td>
</tr>
<tr>
<td>Class 2</td>
<td>ADUL150-2-5-12-DIN</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>5x60 Hz</td>
<td>2</td>
<td>2x60W</td>
<td>2x5A</td>
</tr>
<tr>
<td>Transformer</td>
<td>ADUL240-3-5-12-DIN</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>5x60 Hz</td>
<td>3</td>
<td>3x60W</td>
<td>3x5A</td>
</tr>
</tbody>
</table>

### ADUL - DMX MULTI ADDRESS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT NO</th>
<th>APPLICATION</th>
<th>PRIMARY VOLTAGE</th>
<th>SECONDARY VOLTAGE</th>
<th>CIRCUIT BREAKERS</th>
<th>MAX LOAD</th>
<th>CIRCUIT CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADUL Series</td>
<td>ADUL150-2-5-12-DIN-2</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>5x60 Hz</td>
<td>2</td>
<td>2x60W</td>
<td>2x5A</td>
</tr>
<tr>
<td>Class 2</td>
<td>ADUL240-3-5-12-DIN-3</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>5x60 Hz</td>
<td>3</td>
<td>3x60W</td>
<td>3x5A</td>
</tr>
<tr>
<td>Transformer</td>
<td>ADUL320-4-5-12-DIN-4</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>5x60 Hz</td>
<td>4</td>
<td>4x60W</td>
<td>4x5A</td>
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</tbody>
</table>

### INFINITY - MLV / ELV / 0-10V / PWM / TRIAC

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT NO</th>
<th>APPLICATION</th>
<th>PRIMARY VOLTAGE</th>
<th>SECONDARY VOLTAGE</th>
<th>CIRCUIT BREAKERS</th>
<th>MAX LOAD</th>
<th>MIN LOAD</th>
<th>CIRCUIT CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infinity Series</td>
<td>INF-3-30-1-2.5-12</td>
<td>Indoor / Outdoor</td>
<td>100 - 277V AC</td>
<td>12VDC</td>
<td>1</td>
<td>30W</td>
<td>3W</td>
<td>2.5A</td>
</tr>
<tr>
<td>Class 2</td>
<td>INF-3-60-1-5-12</td>
<td>Indoor / Outdoor</td>
<td>100 - 277V AC</td>
<td>12VDC</td>
<td>1</td>
<td>60W</td>
<td>6W</td>
<td>5A</td>
</tr>
<tr>
<td>Transformer</td>
<td>INF-3-180-3.5-12</td>
<td>Indoor / Outdoor</td>
<td>100 - 277V AC</td>
<td>12VDC</td>
<td>3</td>
<td>3x60W</td>
<td>3x6W</td>
<td>3x5A</td>
</tr>
<tr>
<td></td>
<td>INF-3-300-5-5-12</td>
<td>Indoor / Outdoor</td>
<td>100 - 277V AC</td>
<td>12VDC</td>
<td>5</td>
<td>5x60W</td>
<td>5x6W</td>
<td>5x5A</td>
</tr>
</tbody>
</table>
### 12V Fantasma™ Rail Titanium

#### Recommended Dimmers

**DIMMING - 0-10V**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT NO</th>
<th>APPLICATION</th>
<th>INPUT VOLTAGE</th>
<th>OUTPUT VOLTAGE</th>
<th>MAX LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-10V Dimmer</td>
<td>DIM-LD-010</td>
<td>Indoor</td>
<td>24V DC</td>
<td>24V DC</td>
<td>30 mA max. output</td>
</tr>
</tbody>
</table>

**DIMMING - MLV**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT NO</th>
<th>APPLICATION</th>
<th>INPUT VOLTAGE</th>
<th>OUTPUT VOLTAGE</th>
<th>MAX LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLV Dimmer</td>
<td>N-600</td>
<td>Indoor</td>
<td>120V AC</td>
<td>120V AC</td>
<td>450W</td>
</tr>
<tr>
<td></td>
<td>N-1000</td>
<td>Indoor</td>
<td>120V AC</td>
<td>120V AC</td>
<td>800W</td>
</tr>
<tr>
<td></td>
<td>N-1500</td>
<td>Indoor</td>
<td>120V AC</td>
<td>120V AC</td>
<td>1200W</td>
</tr>
<tr>
<td></td>
<td>D-600</td>
<td>Indoor</td>
<td>120V AC</td>
<td>120V AC</td>
<td>450W</td>
</tr>
<tr>
<td></td>
<td>M-600</td>
<td>Indoor</td>
<td>120V AC</td>
<td>120V AC</td>
<td>450W</td>
</tr>
<tr>
<td></td>
<td>M-1000</td>
<td>Indoor</td>
<td>120V AC</td>
<td>120V AC</td>
<td>800W</td>
</tr>
</tbody>
</table>

**DIMMING - ELV**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT NO</th>
<th>APPLICATION</th>
<th>INPUT VOLTAGE</th>
<th>OUTPUT VOLTAGE</th>
<th>MAX LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELV Dimmer</td>
<td>ME-600</td>
<td>Indoor</td>
<td>120V AC</td>
<td>120V AC</td>
<td>450W</td>
</tr>
<tr>
<td></td>
<td>DE-300</td>
<td>Indoor</td>
<td>120V AC</td>
<td>120V AC</td>
<td>300W</td>
</tr>
</tbody>
</table>

**DIMMING - DMX**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT NO</th>
<th>APPLICATION</th>
<th>INPUT VOLTAGE</th>
<th>OUTPUT PROTOCOL</th>
<th>MAX UNIVERSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMX Controller</td>
<td>TVOQ-1-WH</td>
<td>Indoor</td>
<td>5V DC</td>
<td>DMX 512</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>TVOQ-2-BK</td>
<td></td>
<td>6V DC</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TVOQ-2-WH</td>
<td></td>
<td>6-7V DC</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TVOQ-10-BK-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TVOQ-10-WH-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Recommended Dimmers**

- **DIMMING - 0-10V**
  - **0-10V Dimmer**: DIM-LD-010 (Indoor, 24V DC, 24V DC, 30 mA max. output (sink only))

- **DIMMING - MLV**
  - **MLV Dimmer**: N-600 (Indoor, 120V AC, 120V AC, 450W), N-1000 (Indoor, 120V AC, 120V AC, 800W), N-1500 (Indoor, 120V AC, 120V AC, 1200W), D-600 (Indoor, 120V AC, 120V AC, 450W), M-600 (Indoor, 120V AC, 120V AC, 450W), M-1000 (Indoor, 120V AC, 120V AC, 800W)

- **DIMMING - ELV**
  - **ELV Dimmer**: ME-600 (Indoor, 120V AC, 120V AC, 450W), DE-300 (Indoor, 120V AC, 120V AC, 300W)

- **DIMMING - DMX**
  - **DMX Controller**: TVOQ-1-WH (Indoor, 5V DC, DMX 512, 1), TVOQ-2-BK (Indoor, 6V DC), TVOQ-2-WH (Indoor, 6-7V DC), TVOQ-10-BK-7, TVOQ-10-WH-7

---

**Recommended Dimmers**

- **TVOQ-1-WH**: WH (White only)
- **TVOQ-10-XX-7**: XX = BK (Black), WH (White)
- **TVOQ-2-XX**: XX = BK (Black), WH (White)
## Ordering Information

### Rail Length Ranges

<table>
<thead>
<tr>
<th>Rail Length Range</th>
<th>02 = 11.5” to 24”</th>
<th>03 = 24.5” to 36”</th>
<th>04 = 36.5” to 48”</th>
<th>05 = 48.5” to 60”</th>
<th>06 = 60.5” to 72”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single or Double</td>
<td>S</td>
<td>D</td>
<td>S</td>
<td>D</td>
<td>S</td>
</tr>
<tr>
<td>PCBs per Fixture</td>
<td>2-3</td>
<td>4-6</td>
<td>3-5</td>
<td>6-10</td>
<td>5-6</td>
</tr>
</tbody>
</table>

### How To Measure
Rail lights are manufactured to fit provided dimensions with extension clamps completely extended. Measure from center of pole to center of pole along the plane of inclination.

### Mounting Accessories & Replacement Parts

- **JBOX-LP**: Junction box, low profile
- **BS-CC-8**: Wall wireway, 8’ Black Base & Conduit Cover
- **BSL-PC-1/4**: ¼” Flex Conduit, Black
- **FANTASMA END CAP**
  - FWTT-EC-L: Left End Cap
  - FWTT-EC-R: Right End Cap
- **FANTASMA Lens - 8’**
- **REPLACEMENT LED**
  - FTT-LED-19 1900K
  - FTT-LED-27 2700K
  - FTT-LED-30 3000K
  - FTT-LED-35 3500K
- **REPLACEMENT LED INDICATOR**
  - FTT-RI-19 1900K
  - FTT-RI-27 2700K
  - FTT-RI-30 3000K
  - FTT-RI-35 3500K
- **REPLACEMENT LED INDICATOR**
  - FTT-RI-19 1900K
  - FTT-RI-27 2700K
  - FTT-RI-30 3000K
  - FTT-RI-35 3500K
- **6” O.C. SPACING**
  - FTT-06-STRAND-19 Replacement Strand With 1900K LED
  - FTT-06-STRAND-27 Replacement Strand With 2700K LED
  - FTT-06-STRAND-30 Replacement Strand With 3000K LED
  - FTT-06-STRAND-35 Replacement Strand With 3500K LED
- **FTT-06-STRAND-40** Replacement Strand With 4000K LED
- **FTT-06-STRAND-AM** Replacement Strand With Amber LED
- **FTT-06-STRAND-BL** Replacement Strand With Blue LED
- **FTT-06-STRAND-RD** Replacement Strand With Red LED

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**www.tivolilighting.com**  **tel: 714-957-6101**  **fax: 714-427-3458**
TwoTone Bullnose & Accessories

Bullnose Extrusion
BNS-TT-GY-12
TwoTone Bullnose, 12’ length, Black/Gray Strip
BNS-TT2-GY-12
TwoTone Bullnose, 12’ length, Black/2” Gray Strip
BNS-SC-GY-12
Bullnose, Solid Gray, 12’ Length

Bullnose End Caps
BNS-TT-EC-L
End Cap, Left Side Overlap Design, Black
BNS-TT-EC-R
End Cap, Right Side Overlap Design, Black

CC Bullnose End Caps (Carpet-To-Carpet)
BNS-CC-TT-EC-L
End Cap, Carpet-To-Carpet, Left Side, Black
BNS-CC-TT-EC-R
End Cap, Carpet-To-Carpet, Right, Black

CC & CW Wire Way Combo - Base & Lens
WW-CC-BK-8
Carpet to Carpet Base and Cover 8’ - Black
WW-CC-GY-8
Carpet to Carpet Base and Cover 8’ - Gray
WW-CW-BK-8
Carpet to Wall Base and Cover 8’ - Black
WW-CW-GY-8
Carpet to Wall Base and Cover 8’ - Gray

CC & CW Wire Way Base ONLY
WW-CW-BS-8
Base Only, Carpet to Wall, Black, 8’
WW-CC-BS-8
Base Only, Carpet to Carpet, Black, 8’
CC & CW Wire Way Lens ONLY
WW-TC-CL-8
Lens Cover Only, Clear, 8’
WW-TC-BK-8
Lens Cover Only, Black, 8’
WW-TC-BZ-8
Lens Cover Only, Bronze, 8’
WW-TC-GY-8
Lens Cover Only, Gray, 8’

CE Wire Way Combo - Base & Lens
WW-CE-BK-8
Carpet to Edge Base and Cover 8’ - Black
WW-CE-GY-8
Carpet to Edge Base and Cover 8’ - Gray

CE Wire Way Base ONLY
WW-CE-BS-8
Base Only, Carpet To Edge, Black, 8’

CE Wire Way Lens ONLY
WW-TC-CL-8
Lens Cover Only, Clear, 8’
WW-TC-BK-8
Lens Cover Only, Black, 8’
WW-TC-BZ-8
Lens Cover Only, Bronze, 8’
WW-TC-GY-8
Lens Cover Only, Gray, 8’

Bullnose Step Landing Tread Extender, 12’
STP-EXTNDR-12

Step Reducer, 12’ Section
BNS-TT-R-12

Wall wireway, 8’ Black Base & Conduit Cover
BS-CC-8

Extrusion adhesive, 10.1 oz tubes, sold individually. 30 per case.
ADH-MB-75AM-10

Extrusion adhesive, 29 oz tubes, sold individually. 12 per case.
ADH-MB-75AM-29

End Cap Adhesive, Clear liquid adhesive for end caps. 10.2 oz tubes sold individually. 12 per case.
ADH-IA-10.2-CA

Concrete Screw 3/16” x 1 1/8”
TM-3/16

Concrete Drill Bit 5/32”
ROND8-5/32