Discreet compact (1¼” x 1¼”), hidden light source tamper-resistant linear LED lighting system.

**Features**
- Optically clear polycarbonate co-extruded directional lens features 65° lighting cut-off for hidden, discreet illumination.
- Base and lens available in 8’ field cuttable lengths with optional row indicator window.
- End-to-end continuous mounting with continuous 18AWG, 2 conductor through wires minimize voltage drop.
- Use with Tivoli’s patented two-tone bullnose stair nosing with reflective edge.

**Mounting**
Designed for aisle walls and staircases with 18’ minimum bend radius. Suggested mounting height above floor is 12”-16” for standard 4’ pathway, up to 12” for pathway less than 4’. Up, Down, inside corner, outside corner, and straight run joiner brackets available for ease of installation.

**Applications**
Ideal for wall mounted step and aisle lighting applications.

**Warranty**
5 years

---

**Technical Information**

<table>
<thead>
<tr>
<th>LED Color</th>
<th>1900K - 4000K</th>
<th>Red</th>
<th>Blue</th>
<th>Amber</th>
<th>1900K - 4000K</th>
<th>Red</th>
<th>Blue</th>
<th>Amber</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED PCB Spacing</td>
<td>6”</td>
<td>12”</td>
<td></td>
<td></td>
<td>6”</td>
<td>12”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Lumens/ft</td>
<td>38</td>
<td>19</td>
<td>N/A</td>
<td>19</td>
<td>N/A</td>
<td>19</td>
<td>N/A</td>
<td>19</td>
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<tr>
<td>*Watts/ft</td>
<td>1.10</td>
<td>1.16</td>
<td>1.26</td>
<td>0.55</td>
<td>0.55</td>
<td>0.58</td>
<td>0.63</td>
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<tr>
<td>*Lumen/Watt</td>
<td>35</td>
<td>35</td>
<td>N/A</td>
<td>35</td>
<td>N/A</td>
<td>35</td>
<td>N/A</td>
<td>35</td>
</tr>
<tr>
<td>CRI</td>
<td>&gt;80/TYP83</td>
<td>N/A</td>
<td></td>
<td>&gt;80/TYP83</td>
<td>N/A</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Kelvin Temp</td>
<td>1900K, 2700K, 3000K, 3500K, 4000K (+/-80K)</td>
<td>3SDCM, Red, Blue, Amber</td>
<td></td>
<td></td>
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<tr>
<td>Rated Life</td>
<td>75,000 hrs.</td>
<td></td>
<td></td>
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<tr>
<td>Max Run Length</td>
<td>33’</td>
<td>40’</td>
<td>28’</td>
<td>28’</td>
<td>65’</td>
<td>80’</td>
<td>55’</td>
<td>55’</td>
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<tr>
<td>Order Increments</td>
<td>8’ Sections</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Operating Voltage</td>
<td>12V DC</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>Power Supply</td>
<td>Class 2</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Dimmable</td>
<td>Yes</td>
<td></td>
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<td></td>
<td></td>
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*Based on 3000K Sample
### 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 Class 2 Transformer</td>
<td>ADUL-80-1-5-12-D</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>12V DC</td>
<td>1</td>
<td>60W</td>
<td>5A</td>
</tr>
<tr>
<td></td>
<td>ADUL-150-2-5-12-D</td>
<td></td>
<td>50x60 Hz</td>
<td></td>
<td>2</td>
<td>2x60W</td>
<td>2x5A</td>
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<tr>
<td></td>
<td>ADUL-240-3-5-12-D</td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td>3x60W</td>
<td>3x5A</td>
</tr>
<tr>
<td></td>
<td>ADUL-320-4-5-12-D</td>
<td></td>
<td></td>
<td></td>
<td>4</td>
<td>4x60W</td>
<td>4x5A</td>
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#### 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 Class 2 Transformer</td>
<td>ADUL-80-1-5-12-DOT</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>12V DC</td>
<td>1</td>
<td>60W</td>
<td>5A</td>
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<tr>
<td></td>
<td>ADUL-150-2-5-12-DOT</td>
<td></td>
<td></td>
<td></td>
<td>2</td>
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<td>2x5A</td>
</tr>
<tr>
<td></td>
<td>ADUL-240-3-5-12-DOT</td>
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<td></td>
<td>3</td>
<td>3x60W</td>
<td>3x5A</td>
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<td></td>
<td>ADUL-320-4-5-12-DOT</td>
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<td>4</td>
<td>4x60W</td>
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#### 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 Class 2 Transformer</td>
<td>ADUL-80-1-5-12-DIN</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>12V DC</td>
<td>1</td>
<td>60W</td>
<td>5A</td>
</tr>
<tr>
<td></td>
<td>ADUL-150-2-5-12-DIN</td>
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<td>2</td>
<td>2x60W</td>
<td>2x5A</td>
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<tr>
<td></td>
<td>ADUL-240-3-5-12-DIN</td>
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<td>3</td>
<td>3x60W</td>
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#### 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 Class 2 Transformer</td>
<td>ADUL-150-2-5-12-DIN-2</td>
<td>Indoor / Damp</td>
<td>100-277V AC</td>
<td>12V DC</td>
<td>2</td>
<td>2x60W</td>
<td>2x5A</td>
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<tr>
<td></td>
<td>ADUL-240-3-5-12-DIN-3</td>
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<td>3x60W</td>
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<td></td>
<td>ADUL-320-4-5-12-DIN-4</td>
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<td>4</td>
<td>4x60W</td>
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#### 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 Class 2 Transformer</td>
<td>INF-J-3-0-1-2,5-12</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>
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<tr>
<td></td>
<td>INF-J-3-0-1-5-12</td>
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<td></td>
<td></td>
<td>1</td>
<td>60W</td>
<td>6W</td>
<td>5A</td>
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<td>INF-J-3-0-3-5-12</td>
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<td>3</td>
<td>3x60W</td>
<td>3x6W</td>
<td>3x5A</td>
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<td>INF-J-3-0-5-5-12</td>
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<td>5</td>
<td>5x60W</td>
<td>5x6W</td>
<td>5x5A</td>
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**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 (sink only)</td>
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</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></td>
<td></td>
<td></td>
<td>800W</td>
</tr>
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<td></td>
<td>N-1500</td>
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<td>1200W</td>
</tr>
<tr>
<td></td>
<td>D-600</td>
<td></td>
<td></td>
<td></td>
<td>450W</td>
</tr>
<tr>
<td></td>
<td>M-600</td>
<td></td>
<td></td>
<td></td>
<td>450W</td>
</tr>
<tr>
<td></td>
<td>M-1000</td>
<td></td>
<td></td>
<td></td>
<td>800W</td>
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</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>
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<tr>
<td></td>
<td>DE-300</td>
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<td>300W</td>
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**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>
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<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>
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<tr>
<td></td>
<td>TVOQ-2-WH</td>
<td></td>
<td>6-7V DC</td>
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<tr>
<td></td>
<td>TVOQ-10-BK-7</td>
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<tr>
<td></td>
<td>TVOQ-10-WH-7</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TVOQ-1-WH**
WH (White only)

**TVOQ-10-XX-7**
XX = BK (Black), WH (White)

**TVOQ-2-XX**
XX = BK (Black), WH (White)
90° Vertical Inside and Outside Joints
Engineered for new theater formats that include reclining seats; these new brackets enable full cut off glare. The vertical part of the assembly over the stairs acts as a wire way to the Titanium LEDs installed on the horizontal portion over each step to achieve the full cut off of glare. This new method follows the stair lines verses the hand rail lines of the 35° joint.

35° Joints
Engineered for 35° downward mounting angles over the stairs, in theaters, where standard seating and landing spacing are utilized. This method may not fully eliminate glare as with the 90° joints and installation method.
Ordering Information

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>PCB SPACING</th>
<th>LED</th>
<th>FINISH</th>
<th>FIXTURE LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>FWTT</td>
<td>06 = 6&quot;</td>
<td>19 = 1900K</td>
<td>M = Matte</td>
<td>8.0 = 8&quot;</td>
</tr>
<tr>
<td>FWTT = Fantasma Wall Titanium</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Mounting Accessories

- **FANTASMA END CAP**
  - FWTT-EC-L: Left End Cap
  - FWTT-EC-R: Right End Cap
- **BS-CC-8**: Wall wireway, 8' Black Base & Conduit Cover
- **JBOX-LP**: Junction box, low profile
- **BSL-PC-1/4**: ¼" Flex Conduit, Black
- **FWTT-LENS-M-8**: Fantasma lens - 8" Wall light system base - 8"
- **TT-JUMPER-2**: 24 inch lead jumper
- **TM-1-1/2**: Self tapping, deep cutting, corkscrew-like thread, Phillips profile - 1 1/2" length
- **FWTT-O-CRNRL**: Outside corner joint, matte black
- **FWTT-I-CRNRL**: Inside corner joint, matte black
- **FWTT-U-JNT**: Upward wall joint, matte black
- **FWTT-D-JNT**: Downward wall joint, matte black
- **FWTT-ST-JNT**: Straight joint, matte black
- **FWTT-OV-CRNRL**: 90° Outside vertical Joint, matte black
- **FWTT-IV-CRNRL**: 90° Inside vertical Joint, matte black

Replacement Parts

- **REPLACEMENT PCB**
  - FTT-LED-19: 1900K
  - FTT-LED-27: 2700K
  - FTT-LED-30: 3000K
  - FTT-LED-35: 3500K
  - FTT-LED-40: 4000K
  - FTT-LED-AM: Amber
  - FTT-LED-BL: Blue
  - FTT-LED-RD: Red
- **REPLACEMENT STRAND WITH 6" O.C. LED PCB 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
- **REPLACEMENT STRAND WITH 12" O.C. LED PCB SPACING**
  - FTT-12-STRAND-19: Replacement Strand With 1900K LED
  - FTT-12-STRAND-27: Replacement Strand With 2700K LED
  - FTT-12-STRAND-30: Replacement Strand With 3000K LED
  - FTT-12-STRAND-35: Replacement Strand With 3500K LED
  - FTT-12-STRAND-40: Replacement Strand With 4000K LED
  - FTT-12-STRAND-AM: Replacement Strand With Amber LED
  - FTT-12-STRAND-BL: Replacement Strand With Blue LED
  - FTT-12-STRAND-RD: Replacement Strand With Red LED

- **ROW INDICATOR LED**
  - FTT-RI-19: 1900K
  - FTT-RI-27: 2700K
  - FTT-RI-30: 3000K
  - FTT-RI-35: 3500K
  - FTT-RI-40: 4000K

- **REPLACEMENT WINDOW ONLY**
  Snaps easily into position along installed base and interconnects with outer lens cover for seamless profile.
  FTT-WINDOW

Tivoli, LLC. reserves the right to modify this specification without prior notice.
Two Tone Bullnose & Accessories

**Bullnose Extrusion**
- **BNS-TT-GY-12**
  - Two Tone Bullnose, 12' length, Black/Gray Strip
- **BNS-TT2-GY-12**
  - Two Tone 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'

**BNS-TT-R-12**
- Step Reducer, 12' Section

**STP-EXTNDR-12**
- Bullnose Step Landing Tread Extender, 12'

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

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

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

**TM-3/16**
- Concrete Screw \( \frac{1}{4} " \) x 1\( \frac{3}{16} " \)

**RONDB-5/32**
- Concrete Drill Bit \( \frac{1}{16} " \)

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