Tivobar™ Installation Instructions

Please verify the contents of the packages!
Please read instructions entirely before starting installation
Be sure power is turned off before installing or modifying the system
Call Tivoli, LLC tech support with questions

Caution: Edge Channel is designed to work with Tivotape™ LED lighting tape powered by listed Class 2 24V DC transformers only. Use of any other power source will cause damage, shorten the life of the fixture and will void the warranty.

Consult any and all applicable local and national codes for installation.

Do not conceal or extend exposed conductors through a building wall as per local electrical code.

Warning: With any luminaire for any application, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injuries. This lighting system must be installed in accordance with applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

Tivobar Features

Tivobar™ is the next generation green lighting solution for suspended ceiling applications in movie theaters. Specifically designed for 15/16” (T24) Grid.

Circuit A - Cleaning Lights
White and White/Black cables are for the connection and control of the two diffusing lenses at either end of fixture.

Circuit B - House Lights
Black and Red cables are for the connection and control of the central reflector section.

Circuit A - Cleaning Lights
Diffusing Lens for General Illumination

Circuit B - House Lights
Cut Off Reflectors For Accent Light
Installation Instructions

New Ceiling Installation
Step 1: Tivobar™ is designed to work with \(\frac{15}{16}\)” (T24) grid. Layout the grid to have 2’ X 4’ (60X120cm) or 4’ X 4’ (120 X 120 cm) quadrants where the 2’ or 4’ TivoBar™ will be installed (according to the light requirement).

Step 2: Install the Tivobar™ at the center of the space, creating two sections of 2’ X 2’ (60 X 60 cm) or 2’ X 4’ (60 X 120 cm) each, depending on size of grid pattern.

Existing Ceiling Installation
Step 1: In an existing \(\frac{15}{16}\)” (T24) suspended ceiling, locate the 2’ (60 cm) or 4’ (120 cm) cross tees that are intended to be substituted with the 2’ (60 cm) or 4’ (120 cm) TivoBar™ (according to grid size).

Step 2: Temporarily remove the tiles within the selected workspace.
Step 3: Remove the 2’ (60 cm) or 4’ (120 cm) cross tee and replace it with the 2’ (60 cm) or 4’ (120 cm) TivoBar™.

Note: Make sure that the TivoBar™ is positioned to allow the correct placement of the corresponding tiles.

Support the TivoBar™
TivoBar™ must be anchored to the building structure from above with a steel cable, using the center hole (steel cable by others).
Installation Instructions (Continued)

**Install Mounting Clips**

**Step 1:** Be sure the TivoBar™ is in the proper location in the Grid. Note the height of the unit to ensure the top edge of the lighting enclosure is on the same plane as the flange along the bottom of the grid rail, as seen in Detail "A". This will insure that the ceiling tiles will lay flat.

**Step 2:** Position a mounting clip on the TivoBar Bracket and over the grid rail. Install with 2 screws (included) in the upper slots of the TivoBar™ Bracket, as shown.

**Note:** The slots on the mounting bracket are designed to accommodate different grid heights.

**Step 3:** Once the TivoBar™ is in position, tighten the 2 screws on each side with a 3mm Hex Key (by others).

**Step 4:** Apply power to the system. See wiring diagram on page 4.

**Step 5:** Install ceiling tiles in their correct positions over the TivoBar™ fixture.

**Note:** Once in place, Ceiling tiles should lay flat and even. Re-adjust height of Tivobar™, if needed. Be sure to turn off power before handling any electrical product.
How To Electrify The TivoBar™

CIRCUIT A - DIFFUSER (Cleaning Lights)
Class 2 Dimmable Power Supply
120/277V / 24V DC, 96W max
SOLD SEPARATELY

CIRCUIT B - CUTOFF (House Lights)
Class 2 Dimmable Power Supply
120/277V / 24V DC, 96W max
SOLD SEPARATELY

Transformers Can Be Remotely Located Up To 80’ From TivoBar
If Using 12awg Cable (NOT provided)

1/2” Npt Wire Holder (By Others)

Wire Nuts (not provided)
To Connect Cables (20 AWG)

Wire Nuts (not provided)
To Connect Cables (20 AWG)

CIRCUIT A
Diffusing Lens
22W each 4’ fixture

CIRCUIT B
Single Reflectors
12W each 4’ fixture

CIRCUIT A + CIRCUIT B = TOTAL 34W each 4’ fixture
see above table for max TivoBar connected to a power supply
### Product Specification Guide

#### 2 FOOT FIXTURE

<table>
<thead>
<tr>
<th>Dual Circuit Fixture</th>
<th>Number of Fixtures per Run</th>
<th>Model</th>
<th>Max Distance from Power Supply</th>
<th>Wire Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circuit A (Diffuser)</td>
<td>8</td>
<td>24&quot; / 60cm 11W/Fixture</td>
<td>80 feet</td>
<td>12 AWG plenum rated</td>
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<tr>
<td>Total Load 88W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Circuit B (Cut-Off)  | 14                         | 24" / 60cm 6W/Fixture | 80 feet | 12 AWG plenum rated |
| Total Load 84W       |                            |       |                                |            |

#### 4 FOOT FIXTURE

<table>
<thead>
<tr>
<th>Dual Circuit Fixture</th>
<th>Number of Fixtures per Run</th>
<th>Model</th>
<th>Max Distance from Power Supply</th>
<th>Wire Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circuit A (Diffuser)</td>
<td>4</td>
<td>48&quot; / 120cm 22W/Fixture</td>
<td>80 feet</td>
<td>12 AWG plenum rated</td>
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<tr>
<td>Total Load 88W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Circuit B (Cut-Off)  | 7                          | 48" / 120cm 12W/Fixture | 80 feet | 12 AWG plenum rated |
| Total Load 84W       |                            |       |                                |            |

#### Recommended Power Supplies

**0-10V DIMMING**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>PRIMARY AND SECONDARY</th>
<th>TOTAL WATTAGE / AMPS PER BREAKER</th>
<th>DIMENSIONS</th>
<th>LISTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADUL-120-1-4-24-DOT*</td>
<td>120-277V AC 24V DC</td>
<td>96W / 1X4A</td>
<td>12&quot;W X 12&quot;L X 4.25&quot;D</td>
<td>UL</td>
</tr>
<tr>
<td>ADUL-240-2-4-24-DOT</td>
<td>120-277V AC 24V DC</td>
<td>192W / 2X4A</td>
<td>12&quot;W X 12&quot;L X 4.25&quot;D</td>
<td>UL</td>
</tr>
<tr>
<td>ADUL-320-3-4-24-DOT</td>
<td>120-277V AC 24V DC</td>
<td>288W / 3X4A</td>
<td>12&quot;W X 12&quot;L X 4.25&quot;D</td>
<td>UL</td>
</tr>
</tbody>
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<th>DIMENSIONS</th>
<th>LISTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADNM-90-1-4-24-DOT*</td>
<td>120-277V AC 24V DC</td>
<td>96W / 1X4A</td>
<td>6&quot;W X 8&quot;L X 4&quot;D</td>
<td>UL</td>
</tr>
</tbody>
</table>

* Two Power Supplies required per fixture; one for Circuit A and one for Circuit B.