T-BAR PoE™
by JLC • tech

The only lighting product that is designed, approved, and patented to replace the cross members in a suspended grid ceiling system.
T-BAR PoE™ by JLC • tech

T-BAR PoE™ combines the benefits of JLC-Tech’s patented T-BAR LED™ product family with the functionality of a Power-over-Ethernet system, compatible with the Molex CoreSync™ Network. The CoreSync™ platform provides data-driven services that dynamically orchestrate building function through the use of network connected lighting. By replacing cross tees in a suspended ceiling with light fixtures powered by the CoreSync™ Network, JLC-Tech now offers a fully integrated digital building solution.

To learn more about Molex CoreSync™ please visit, www.coresync.molex.com
**T-BAR PoE™ Key Benefits**

JLC-Tech’s products are the only lighting fixtures designed, approved and patented to replace the cross tees in a suspended grid ceiling system.

- Allows for uninterrupted ceiling panels, creating a uniform ceiling design, optimizing sound absorption and light reflectance
- Low profile of the T-BAR PoE leaves the plenum above the ceiling completely unoccupied
- Installation of lighting fixtures is a snap and requires minimal-to-no-tools or field cutting of tiles
- Power and data over single-layer infrastructure offers human-centric control of luminaires
- Safe and cost effective to install with low-voltage technology
- Based on Ethernet standard
- Creates the possibility for new data analytic schemes
- Future-proof and upgradeable
## T-BAR PoE™ | Order Specification Guide

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Type of LED/K Color</th>
<th>Size</th>
<th>Grid Type</th>
<th>Optic</th>
<th>Mounting Clips</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>TBMO</td>
<td>Warm White 3000K</td>
<td>2 = 2 ft</td>
<td>24 = 15/16&quot;</td>
<td>Diffusing</td>
<td>Universal</td>
<td>White</td>
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<tr>
<td></td>
<td>Medium Warm 3500K</td>
<td>4 = 4 ft</td>
<td>15 = 9/16&quot;</td>
<td>Block Clear Diffusing Lens</td>
<td>Armstrong</td>
<td>Custom</td>
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<tr>
<td></td>
<td>Medium Neutral 4000K</td>
<td>4L = 4 ft L</td>
<td>15B = 9/16&quot;</td>
<td>Block Frosted Diffusing Lens</td>
<td>Custom</td>
<td>Custom</td>
</tr>
<tr>
<td></td>
<td>Neutral White 4500K</td>
<td>2 = 2 ft</td>
<td>15 = 9/16&quot;</td>
<td>Asymmetric</td>
<td>Universal</td>
<td>Custom</td>
</tr>
</tbody>
</table>

**Patent No.** 8,177,385; 9,879,850. Additional patents are pending.

### Profile Dimensions
![Diagram of Profile Dimensions](image)

### Length Dimensions
![Diagram of Length Dimensions](image)

<table>
<thead>
<tr>
<th>Size</th>
<th>Grid Type</th>
<th>X</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 = 2 ft</td>
<td>24 = 15/16&quot;</td>
<td>24&quot;</td>
<td>23&quot;</td>
</tr>
<tr>
<td>4 = 4 ft</td>
<td>24 = 15/16&quot;</td>
<td>48&quot;</td>
<td>47&quot;</td>
</tr>
<tr>
<td>4L = 4 ft L</td>
<td>24 = 15/16&quot;</td>
<td>48&quot;</td>
<td>24&quot;</td>
</tr>
<tr>
<td>2 = 2 ft</td>
<td>15 = 9/16&quot;</td>
<td>24&quot;</td>
<td>23.4&quot;</td>
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<tr>
<td>4 = 4 ft</td>
<td>15 = 9/16&quot;</td>
<td>48&quot;</td>
<td>47.4&quot;</td>
</tr>
<tr>
<td>4L = 4 ft L</td>
<td>15 = 9/16&quot;</td>
<td>48&quot;</td>
<td>24&quot;</td>
</tr>
</tbody>
</table>

**CRI = >82**

**Light Output:**
- **Diffusing** = 356 lm per foot (9/16") 467 lm per foot (15/16")
- **Block Clear Diffusing** = 350 lm per foot (9/16") 451 lm per foot (15/16")
- **Block Frosted Diffusing** = 368 lm per foot (9/16") 466 lm per foot (15/16")
- **Asymmetric** = 388 lm per foot (9/16") 467 lm per foot (15/16")
- **Multi-Reflector** = 564 lm per foot (9/16") 627 lm per foot (15/16") (metalized finish)

**Notes:**
Molex CoreSync-Ready T-BAR LED™ fixtures for use with CoreSync PoE gateways and control system. Daisy chain fixtures up to (4) 2 ft or (2) 4 ft products based on CoreSync gateway provided by Molex. (Refer to installation instructions.)

**Applications:**
Executive, Medical, Health, Educational, Retail, Hotels, Airport, Hospitality and any open space areas that require a unique and decorative architectural lighting design effect with digital building solution.

**Mounting:**
Universal mounting brackets are for easy installation into most manufacturers' standard 15/16" or 9/16" ceiling suspension systems. Armstrong compatible mounting clips for installation with Armstrong Ceiling 15/16" Prelude® and Clean Room™, 9/16" Suprafine®, Silhouette®, Sonata® and Interlude® suspension systems.

**Materials:**
Anodized and painted aluminum extruded body, steel mounting clips, white PC end caps, high transmitting acrylic PMMA lens (diffusing, asymmetric, block diffusing lenses). High reflectance 98% aluminum coated, white or black PC reflectors on each LED for a dark light effect (multi-reflector).

**Electric:**
High output LEDs consume 6W/ft using the CoreSync LED driver. Fixtures can be individually addressed with the CoreSync system. (Refer to CoreSync instruction provided by Molex.)

**Warranty:**
5 years

**Listings:**
ETL/cETLus CE RoHS. Indoor use only.

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Diffusing Lens
T-BAR PoE 9/16" and 15/16"
Diffusing lens for direct lighting is equipped with a 95%-clear micro prismatic lens for controlled distribution: A clever choice for illuminating spaces with a lighting fixture that blends with the architectural design of your ceiling, simultaneously creating an elegantly stunning light effect. Perfect for corporate offices, medical/health, educational facilities and more.

Block Clear Diffusing Lens
T-BAR PoE 9/16" and 15/16"
Acrylic block diffuser has an added unique combination of direct and indirect illumination. Designed with satin edges and clear sides, this model creates a particular architectural statement while distributing the lumens over the entire space. Create an array of linear geometrical light patterns or use this as an accent light for special decorative projects.

Block Frosted Diffusing Lens
T-BAR PoE 9/16" and 15/16"
White frosted block lens is designed with all white frosted edges and sides. This model creates an elegant even glow of light with a 180 degree light distribution.

Asymmetric
T-BAR PoE 9/16" and 15/16"
Asymmetric lens is designed with a shielded profile on one side and a micro-ribbed asymmetrical lens that allows for full wall illumination, ceiling to floor. This is a perfect minimalistic solution for achieving the desired wall washing effects without seeing the light source from the opposite side.

Multi-Reflector
T-BAR PoE 9/16" and 15/16"
T-BAR PoE with full cut-off reflector over each LED producing low glare for luminance sensitive applications. Ideal for areas with strict glare requirements, while still offering the benefits of a concentrated angle of light on desired task surfaces.

4L Model
T-BAR PoE 9/16" and 15/16"
T-BAR PoE can be installed in a rectangular, square or geometric trail of light, thanks to the T-BAR PoE 4L Model. An easy solution for installing linear lighting at 90 degrees above conference tables, desks, a waiting area or the contour of a room. Create geometric linear patterns of light for special general lighting or decorative projects. Available with all optic options and flat grid ceiling systems.
Installation and Mounting

Universally compatible clip

Specifically designed by Armstrong Ceiling Solutions for JLC-Tech, the X-LED clip is mounted at each end for easy installation into Armstrong 15/16" or 9/16" ceiling suspension systems, allowing the fixture to become a part of the certified ceiling assembly, eliminating the need for support wires. T-BAR PoE replaces selected cross tees of the grid ceiling suspension system where light is desired. (See Armstrong Ceiling Compatible Clip installation instruction for more details.)

Specially designed brackets are mounted at each end of the fixture for easy installation into most manufacturers' standard 15/16" or 9/16" ceiling suspension systems. T-BAR PoE replaces selected cross tees of the grid ceiling suspension system where light is desired. (See Universal Clip installation instruction for more details.)

*M Model

90° configurations are possible by using our 4L Model

This model is illuminated on only two feet of its length, while the other two feet are machined flat to replicate a standard flat cross tee. By selecting the 4L Model you will be able to create shapes and patterns that include a 90° lighted connection.
Together with leading construction engineering firms, Molex designs and optimizes solutions to improve operational efficiency and performance. As a result, Molex CoreSync™ Network enhances occupant experience and productivity in offices, learning or healthcare facilities, hospitality, retail settings, industrial buildings and others.

Molex and PoE System Architecture

Molex Network Connected Solutions (NCS) provides building managers with insight into all areas of the digital building through the use of a wide range of NCS-Ready sensors.

- Control T-BAR PoE lighting synergistically along with other building functions.
- Create zones and schedules for the lighting network.
- Collect feedback through the sensor system to optimize space usage.
- Generate reports on building analytics such as energy savings.