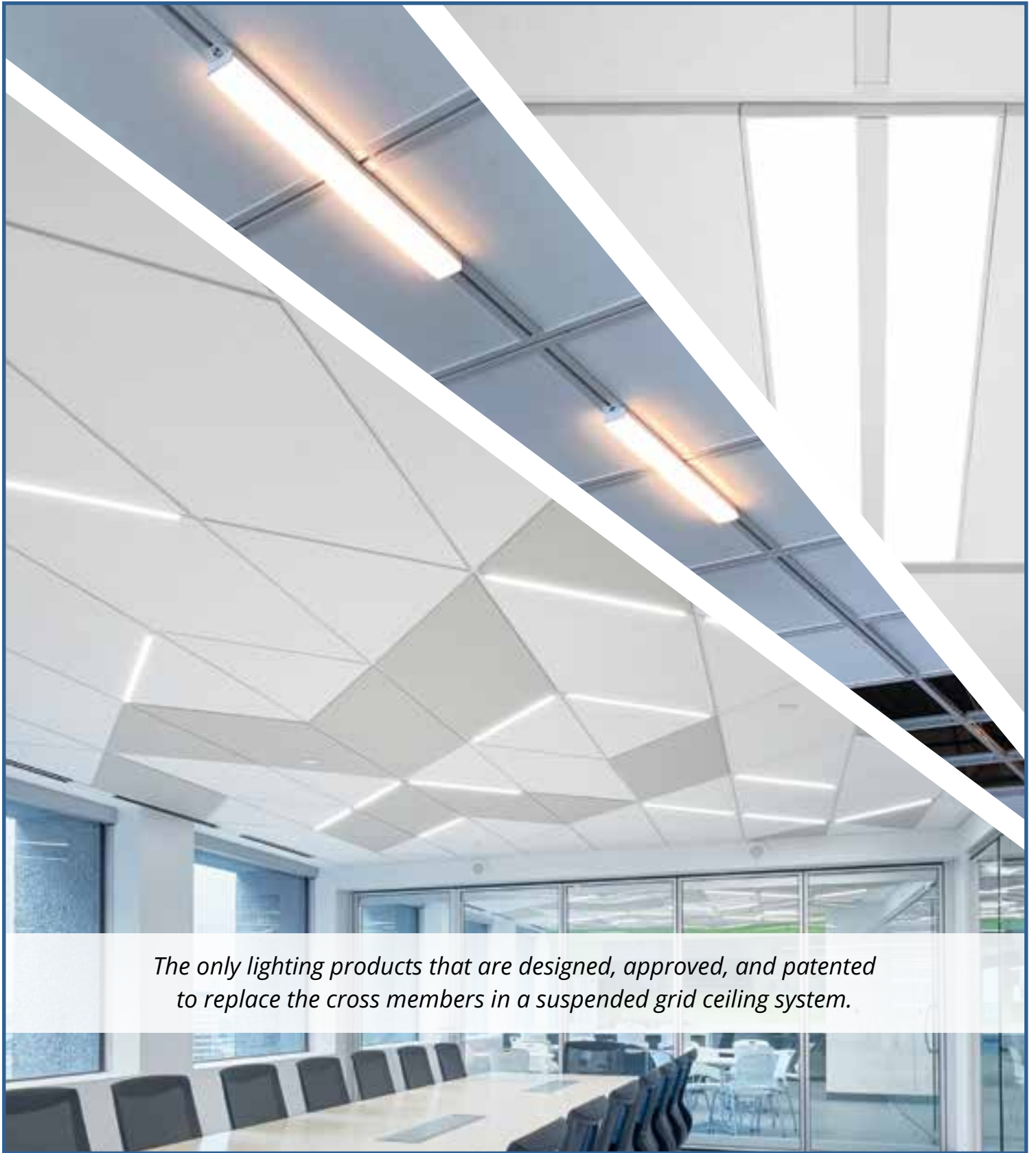


JLC • tech

*Extended Collection of  
Integrated Lighting Products*



*The only lighting products that are designed, approved, and patented  
to replace the cross members in a suspended grid ceiling system.*



# JLC-Tech's Extended Collection of Integrated Lighting Products

JLC-Tech was founded in 2012 with one singular vision: to create unique and useful LED lighting fixtures. Based out of Pembroke, MA – USA, the company is dedicated to maximizing the energy saving qualities of LEDs and marrying them to modern, creative and structurally integrated designs for commercial spaces.

JLC-Tech's flagship product, the T-BAR LED® is a prime example of the company mission and dedication coming to life. The T-BAR LED is designed, approved, and patented to replace the cross members in a suspended grid ceiling system.

Since the creation of the T-BAR LED, JLC-Tech has continued to expand its one-of-a-kind integrated lighting family to include a variety of unique design solutions. This catalog contains JLC-Tech's complete extended collection of integrated lighting products.



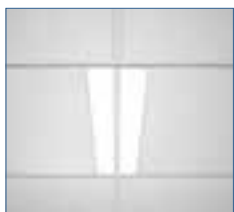
Ohio Project – Columbus, OH  
*Styled Pretty, Inc.*



Hourigan Corporate Office – Richmond, VA  
PSH+  
Photo courtesy of Armstrong® Ceiling Solutions



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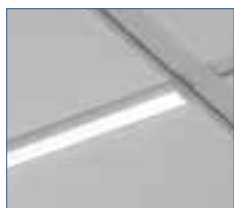
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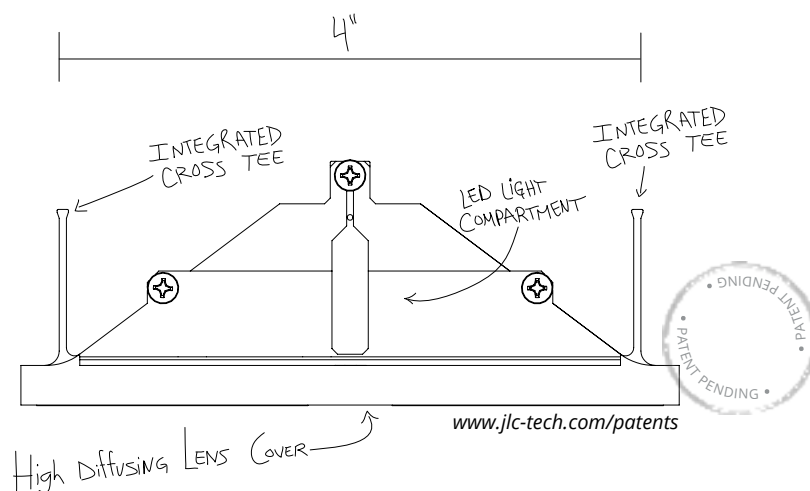


# GEMINI™

*The only linear downlight that is engineered and patented  
to replace the cross members in a suspended grid ceiling system.*



# GEMINI™ by JLC • tech



The first and only 4" linear downlight to install just like a cross tee in a suspended ceiling. The GEMINI revolutionizes the installation process to achieve linear lighting on-center with the grid by replacing the actual cross tees.

Typical linear downlights require a custom grid opening to be constructed in order to support the fixture, while the GEMINI has integrated cross-tees to create this on-center opening without additional grid components. This simplifies installation and allows for a more cohesive ceiling aesthetic. Offered with a single 4" wide lens, or a dual lens option that matches the surrounding grid lines, the GEMINI provides a low-glare, simple to install, linear downlight lighting solution while also conserving plenum space.

*JLC-Tech is a pioneer in LED lighting, revolutionizing and challenging the status quo on how we illuminate our spaces.*

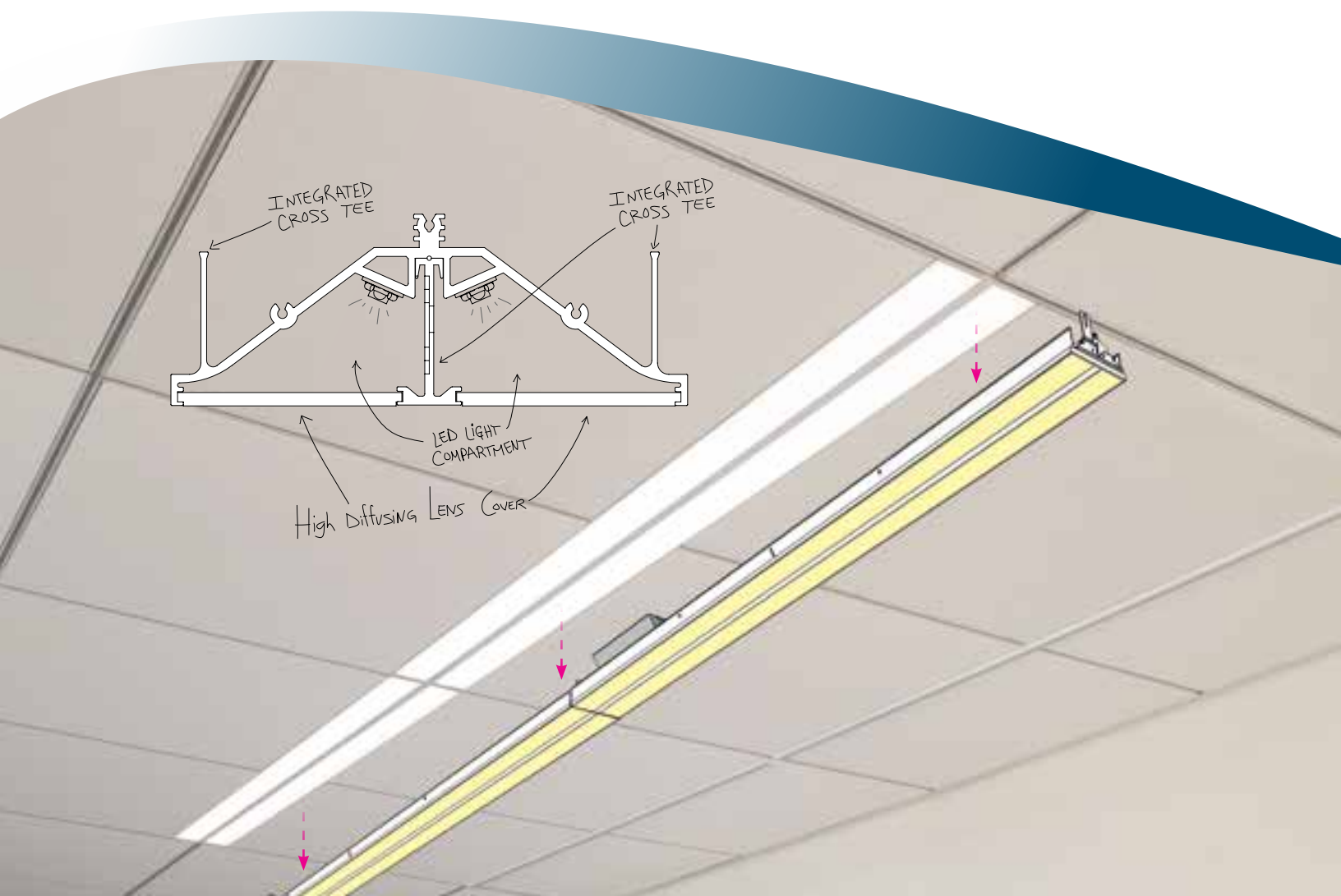
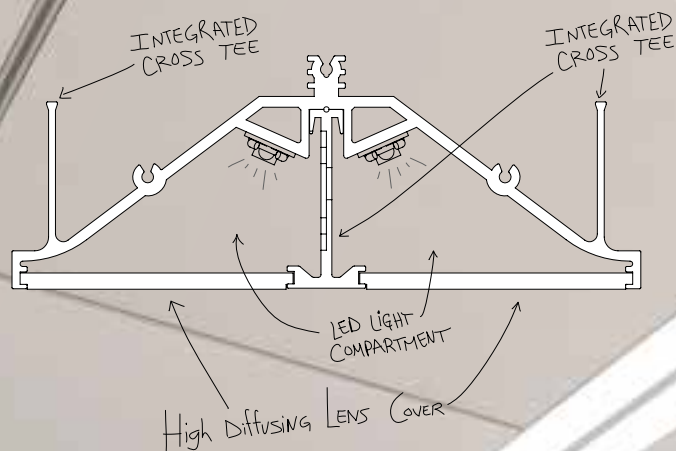
# Why GEMINI™

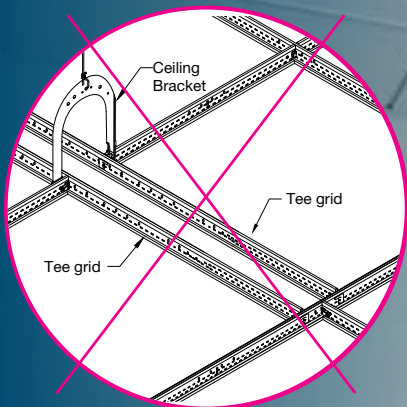
GEMINI by JLC-Tech is designed with integrated cross tees to provide a 4" linear light on-center to the suspended ceiling grid. There is no longer a need to build a custom opening or slot for the lighting fixture. Utilizing standard grid ceiling components, the GEMINI installs into the ceiling location typically occupied by a 2ft, 4ft, or 5ft cross tee.

Available with two distinct lens options; a double lens with central spine that matches the surrounding grid width, giving the look of a continuous ceiling grid, or a single lens option for a more traditional slot fixture aesthetic.

Each lens option is also available with a choice of high performance optics. The Diffuse White (DW) optic utilizes a high efficiency PMMA diffusing lens for a smooth look with no visible LEDs. The DW optic is ideal for a clean look and wide light distribution for even illumination.

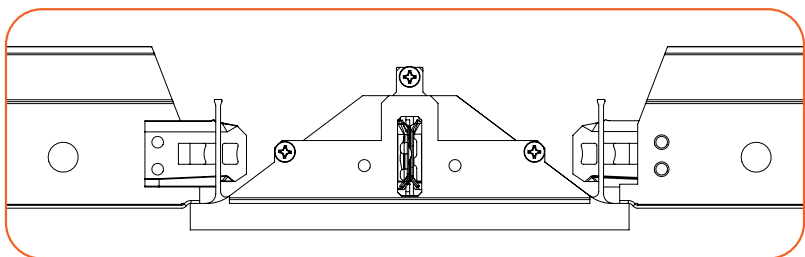
The Vista Comfort™ (VC) optic uses a precision engineered dual-layer optical system to offer the perfect balance of soft diffuse light and glare control for elevated visual comfort. The VC optic is the perfect tool to design towards UGR requirements without sacrificing visual aesthetics.



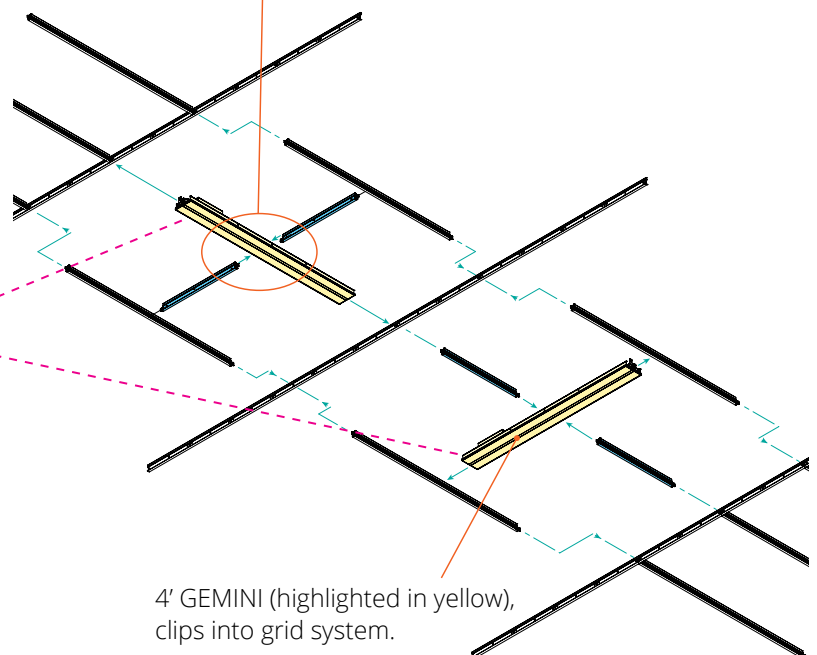
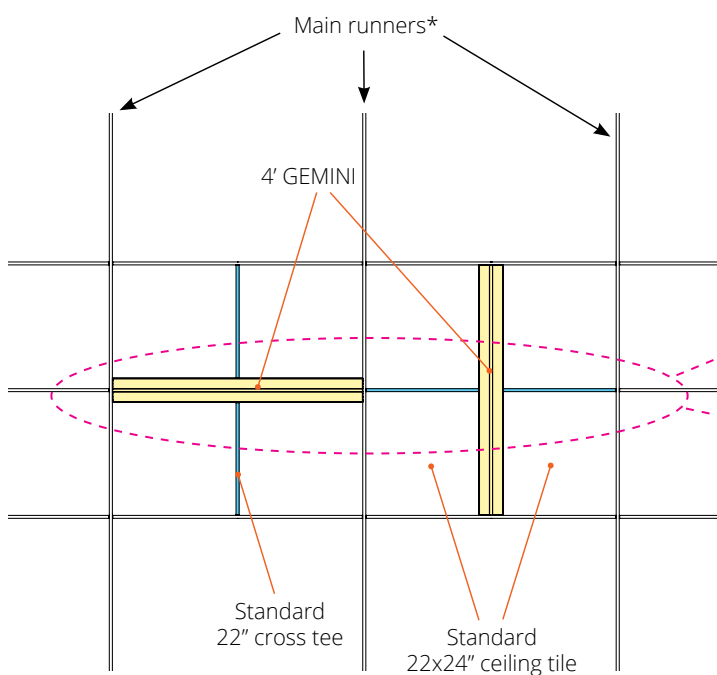


Custom opening not required.

*GEMINI is the first and only linear downlight for grid ceilings that installs without the need to build a custom opening in the grid system to support the fixture for on-center linear lighting.*



Cross section showing how perpendicular cross tees simply snap into GEMINI integrated cross tees.



4' GEMINI (highlighted in yellow), clips into grid system.

*\* Main runners can run perpendicular or parallel to the GEMINI.*



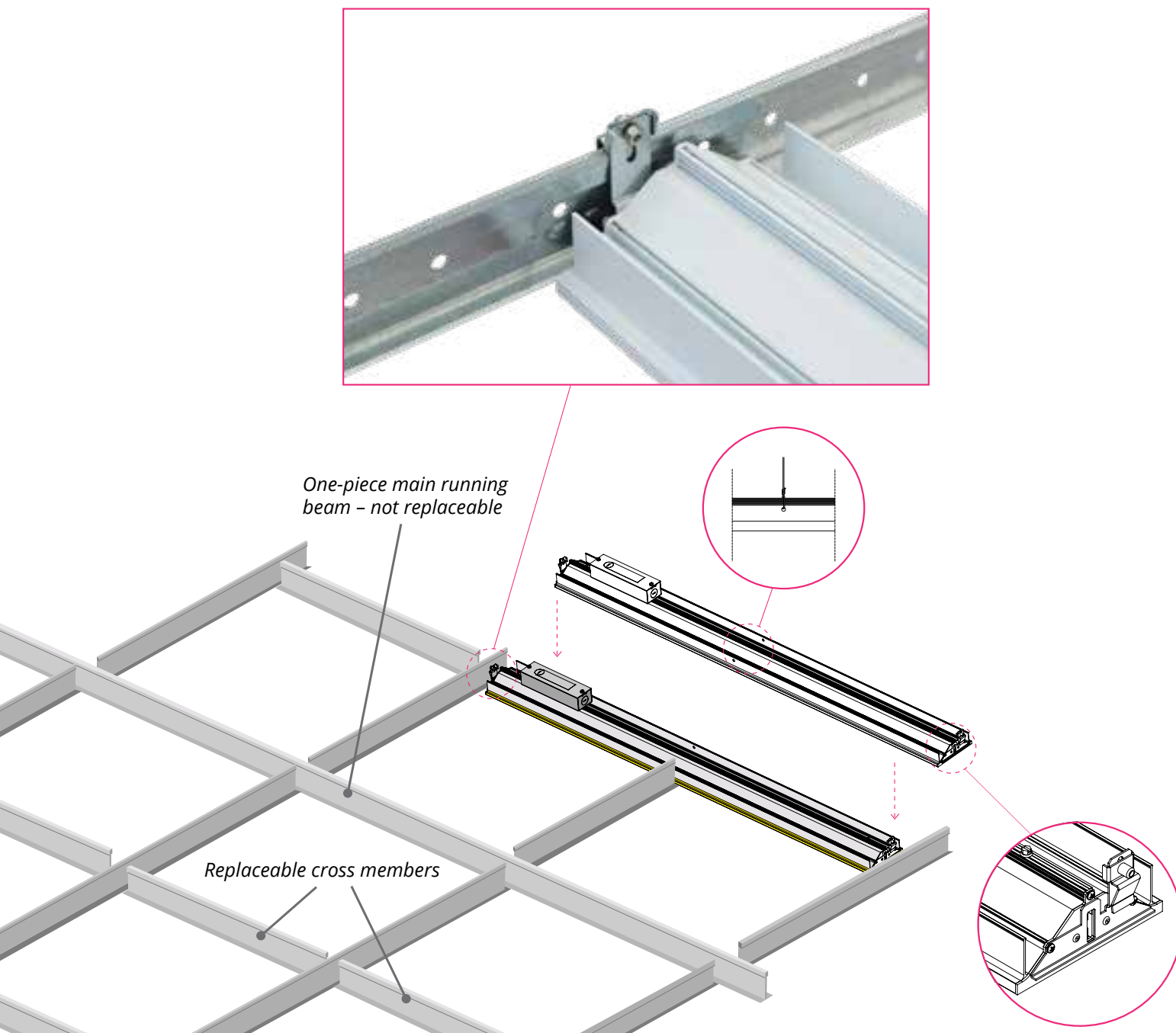


## How to install the GEMINI™

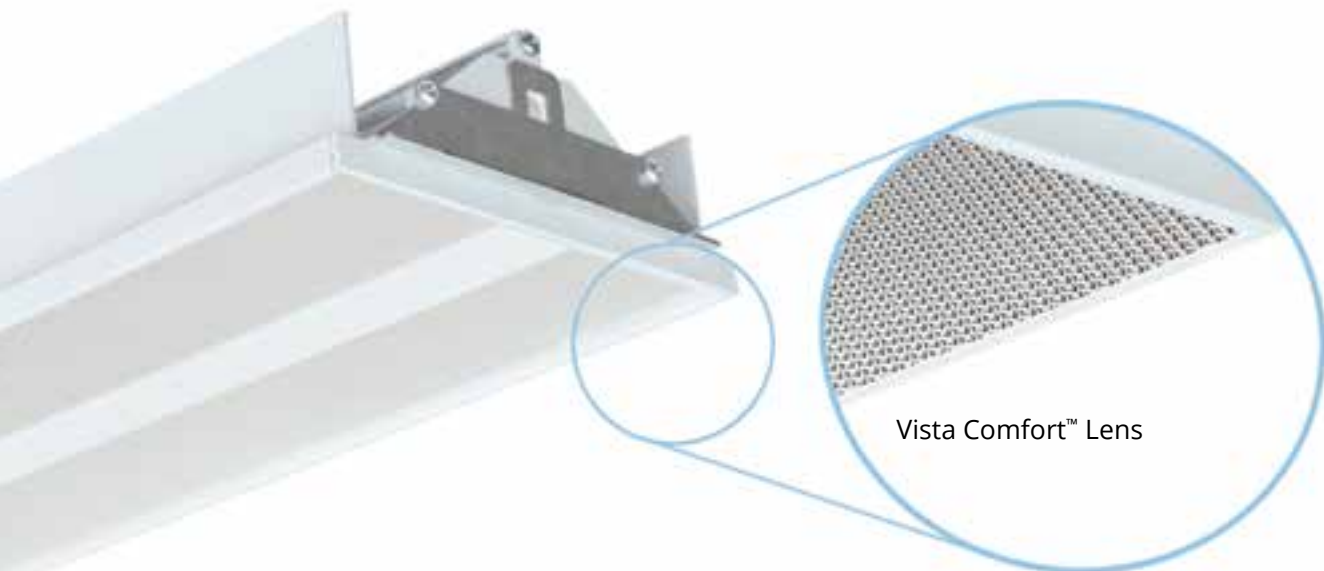
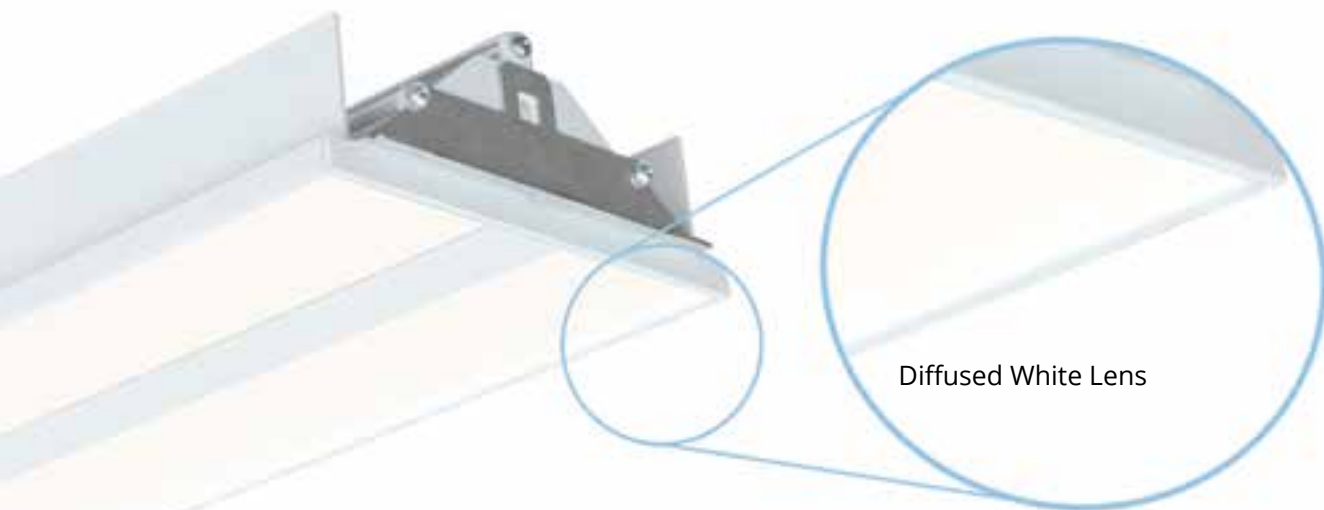
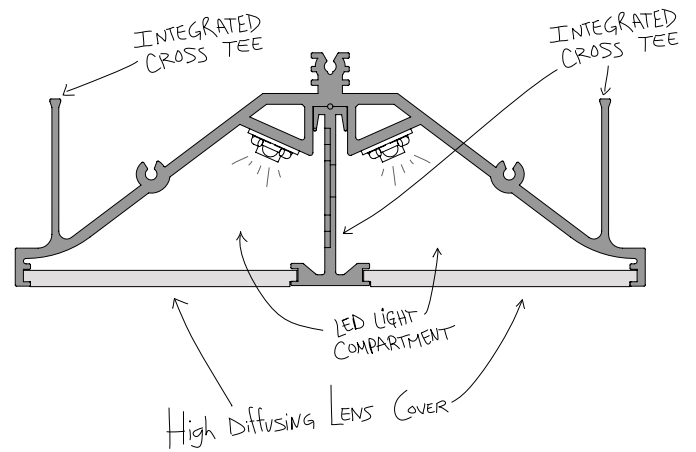
### Universally Compatible Clip

Specially designed brackets are mounted at each end of the fixture for easy installation into most manufacturers' standard 15/16" and 9/16" ceiling suspension systems.

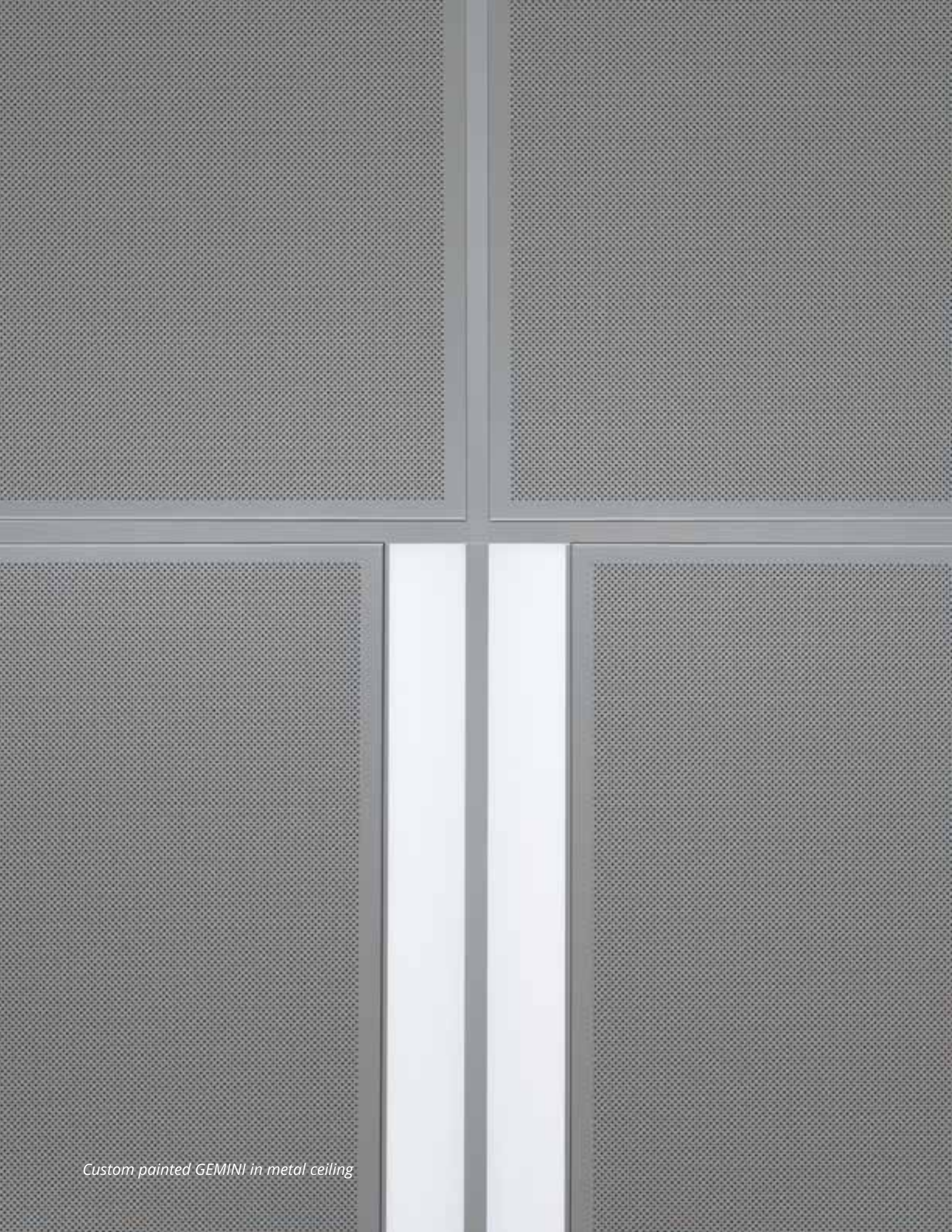




# GEMINI™ Double Lens

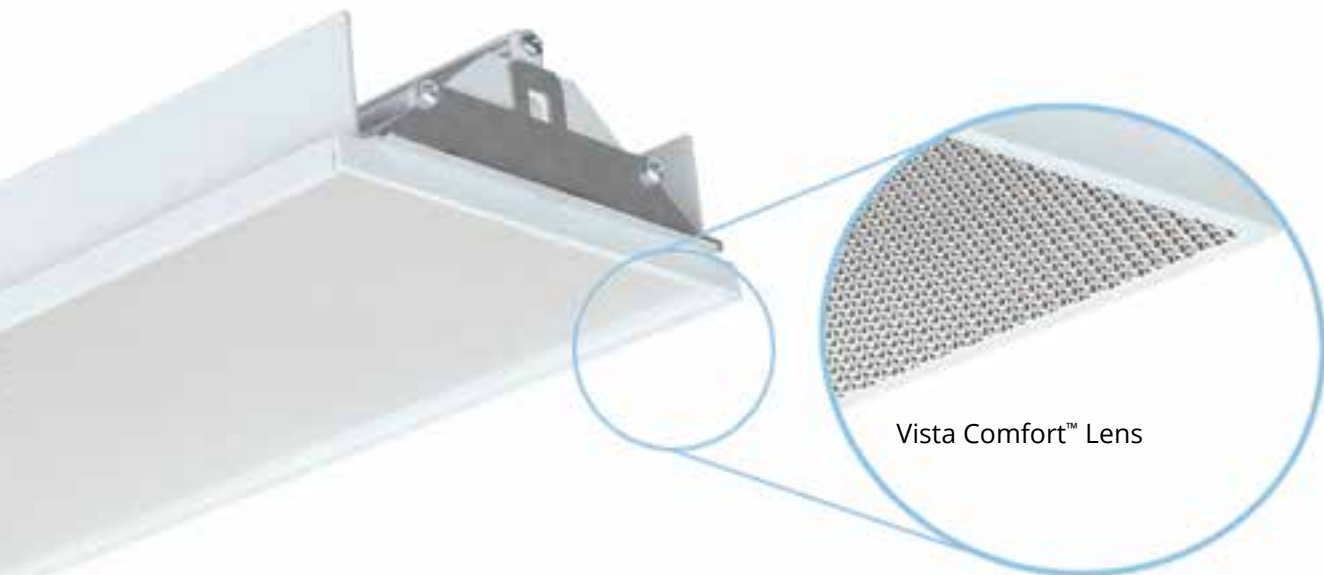
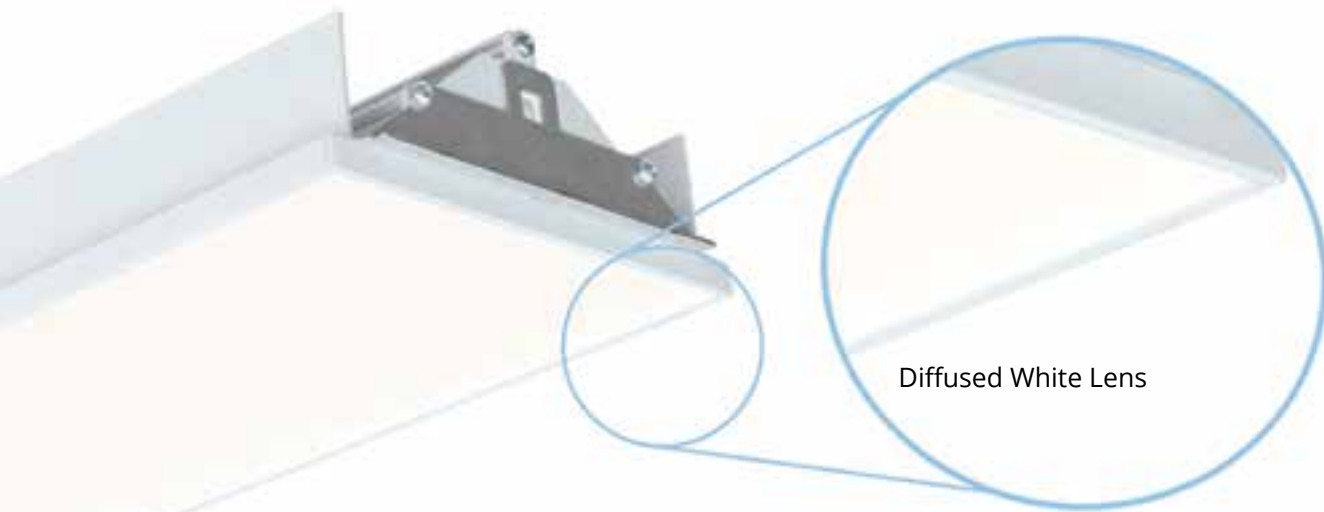
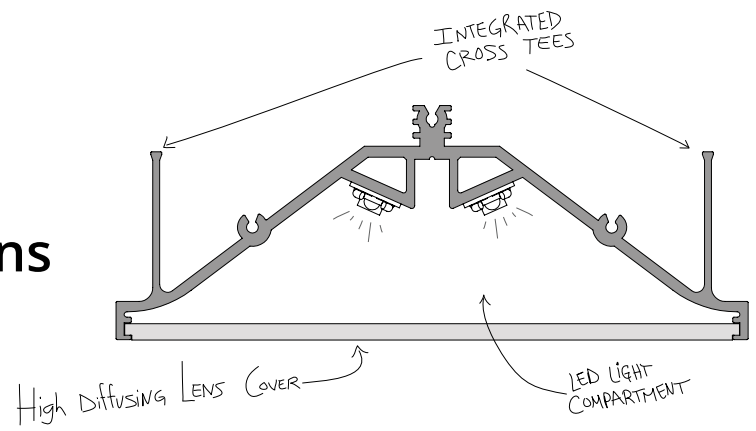




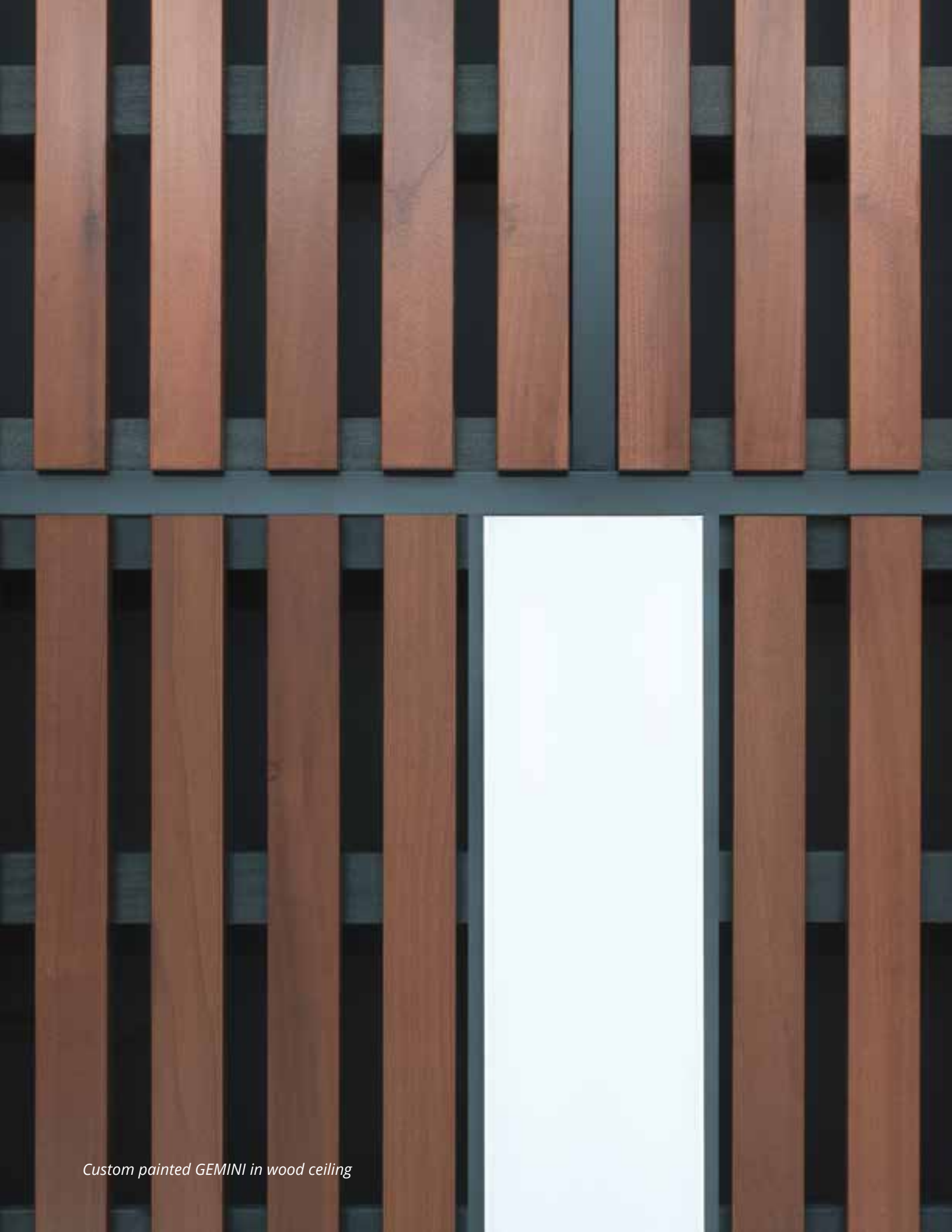


*Custom painted GEMINI in metal ceiling*

# GÆMINI™ Single Lens







*Custom painted GEMINI in wood ceiling*



| Product Name                     | LED/K Color                   | Light Output                                     | Grid Size          | Grid Type                    | Optic                      | Mounting Clips            | Color             | Driver                                 | Options  |
|----------------------------------|-------------------------------|--|--------------------|------------------------------|----------------------------|---------------------------|-------------------|--|--|
| <b>GEMD</b> = GEMINI Double Lens | <b>HW</b> = 3000K             | <b>500</b> = 500 lm/ft                           | <b>2</b> = 2 ft    | <b>24</b> = 15/16"           | <b>DW</b> = Diffused White | <b>U</b> = Universal      | <b>W</b> = White  | <b>UNV</b> = 120-277 Vac 0-10V dimming | <b>CP</b> = Chicago Plenum                           |
| <b>GEMS</b> = GEMINI Single Lens | <b>MW</b> = 3500K             | <b>750</b> = 750 lm/ft                           | <b>4</b> = 4 ft    | <b>15</b> = 9/16"            |                            | <b>A</b> = Armstrong      | <b>B</b> = Black  |  |  |
|                                  | <b>MN</b> = 4000K             | <b>1000</b> = 1000 lm/ft                         | <b>5</b> = 5 ft    | <b>15B</b> = 9/16" Bolt Slot | <b>VC</b> = Vista Comfort™ | <b>W</b> = Specialty Wood | <b>C</b> = Custom | <b>POE</b> = Power over Ethernet*      |  |
|                                  | <b>HN</b> = 4500K             |  | <b>Metric</b>      |                              |                            |                           |                   |  |  |
|                                  | <b>CN</b> = 5000K             |  | <b>6</b> = 60 cm   |                              |                            |                           |                   |  |  |
|                                  | 90 CRI available, on request. | Custom lumen outputs available, consult factory. | <b>12</b> = 120 cm |                              |                            |                           |                   |  | Optional EM Battery Kit available (sold separately). |

www.jlc-tech.com/patents

\*For PoE, consult factory

Single Lens Diffused White (DW)



Double Lens Diffused White (DW)



Single Lens Vista Comfort (VC)



Double Lens Vista Comfort (VC)

**NOTES:**

GEMINI is designed to provide a 4" linear downlight on-center to the grid with integrated cross tees, by replacing standard cross members in a suspended ceiling; without the need to build a custom opening in the grid ceiling.

**APPLICATIONS:**

Executive, Medical, Health, Educational, Retail, Hotels, Airport, Hospitality and any open space areas that require a unique and elegant architectural lighting design.

**MOUNTING:**

Universal mounting clips for easy installation with Armstrong 15/16" or 9/16" suspension systems or standard 15/16" or 9/16" T-bars of most manufacturers ceiling suspension systems. Compatible with tegular and lay-in tiles. Mounting Clips "W" for grille and plank specialty wood ceilings, consult factory for wood ceiling specific shop drawings details.

**MATERIALS & OPTICS:**

Powder coated aluminum extruded body, steel mounting clips, and powder coated steel end caps. "DW" optic uses high efficiency frosted acrylic PMMA lens for even illumination, "VC" optic uses precision engineered PMMA prismatic lens with internal PET film layer providing diffuse glare free illumination to help design to UGR requirements.

**ELECTRIC:**

Universal input voltage of 120 – 277VAC. Junction box installed on fixture with integral driver and wire nuts inside for connection to branch circuit and 0-10V dimming system, (dimming to 1%). Fixture must be installed in accordance with local electrical codes. For EM Battery Kit order separately. PoE options available, consult factory.

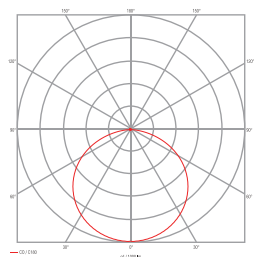
**WARRANTY:**

5 years

**LISTINGS:**

ETL/cETLus CE RoHS. Indoor use only. IC Rated. IP 40.

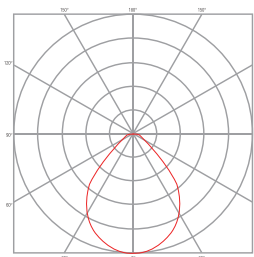
Photometrics CRI = &gt;82

 $L_{80} > 60K$  hrs

9/16" Diffused White Double Lens 4000K

## Diffused White Double Lens

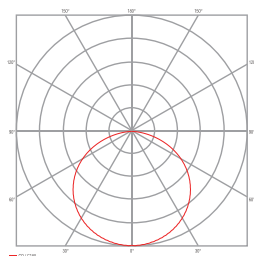
| Code Selection           | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|--------------------------|----------------|------------------|-----------------|
| <b>500</b> = 500 lm/ft   | 487            | 4.6              | 105.9           |
| <b>750</b> = 750 lm/ft   | 731            | 7.2              | 101.5           |
| <b>1000</b> = 1000 lm/ft | 975            | 9.4              | 103.7           |



9/16" Vista Comfort™ Double Lens 4000K

## Vista Comfort Double Lens

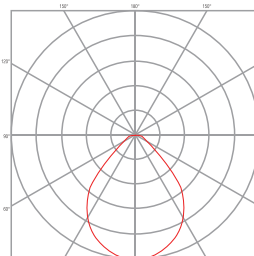
| Code Selection           | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|--------------------------|----------------|------------------|-----------------|
| <b>500</b> = 500 lm/ft   | 453            | 4.6              | 98.5            |
| <b>750</b> = 750 lm/ft   | 680            | 7.2              | 94.4            |
| <b>1000</b> = 1000 lm/ft | 908            | 9.4              | 96.6            |



9/16" Diffused White Single Lens 4000K

## Diffused White Single Lens

| Code Selection           | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|--------------------------|----------------|------------------|-----------------|
| <b>500</b> = 500 lm/ft   | 542            | 4.6              | 117.8           |
| <b>750</b> = 750 lm/ft   | 813            | 7.2              | 112.9           |
| <b>1000</b> = 1000 lm/ft | 1085           | 9.4              | 115.4           |



9/16" Vista Comfort™ Single Lens 4000K

## Vista Comfort Single Lens

| Code Selection           | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|--------------------------|----------------|------------------|-----------------|
| <b>500</b> = 500 lm/ft   | 558            | 4.6              | 121.4           |
| <b>750</b> = 750 lm/ft   | 837            | 7.2              | 116.3           |
| <b>1000</b> = 1000 lm/ft | 1117           | 9.4              | 118.9           |

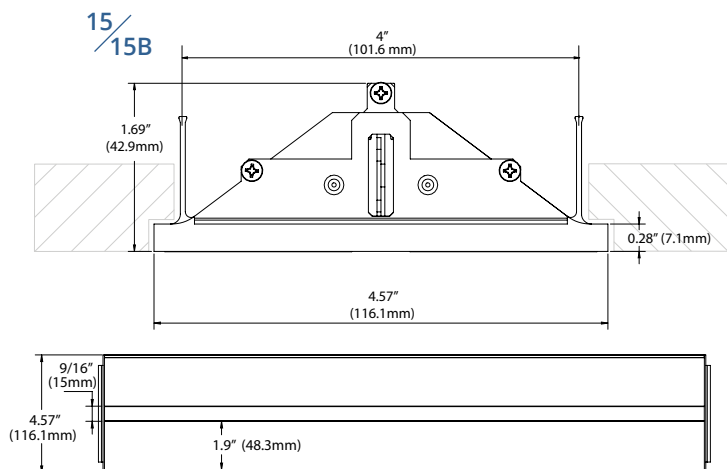
\*Complete photometric info and IES files are available for download at [www.jlc-tech.com](http://www.jlc-tech.com)

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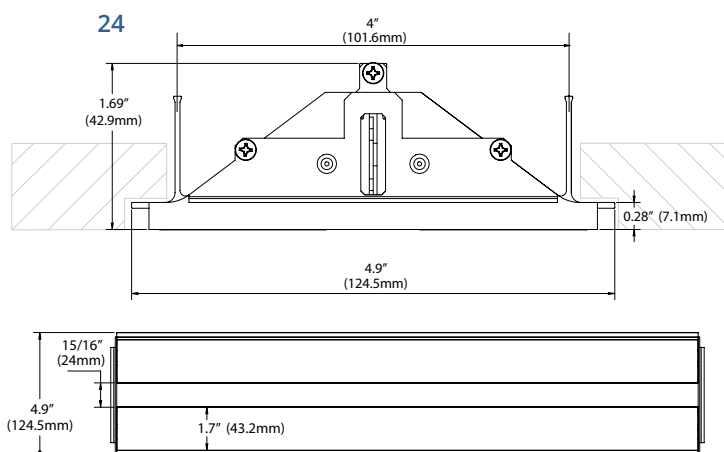


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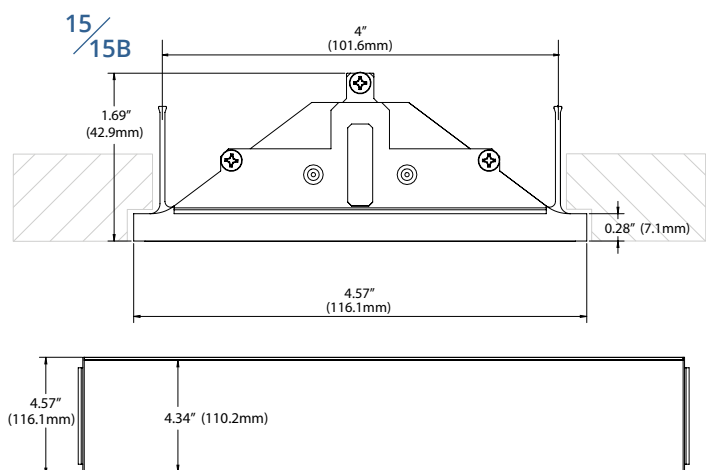
## Dimensions (Compatible with Tegular and Lay-in tiles)



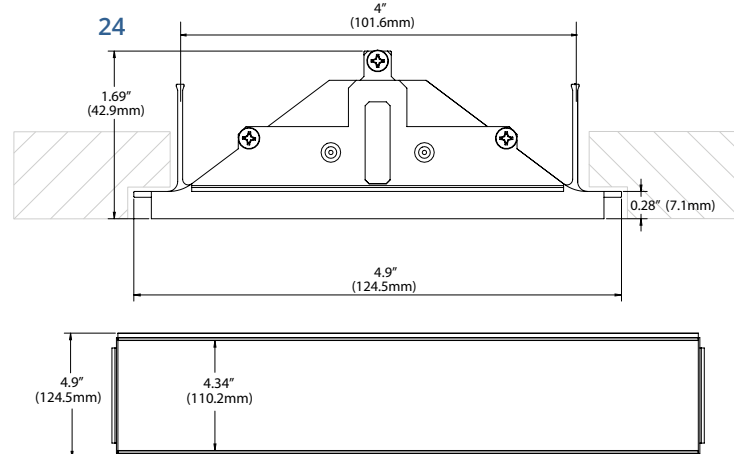
9/16" GEMINI Double Lens  
GEMD-XX-X-X-15/15B-XX-X-W-UNV



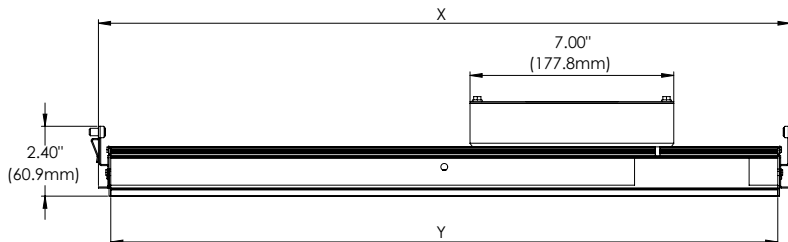
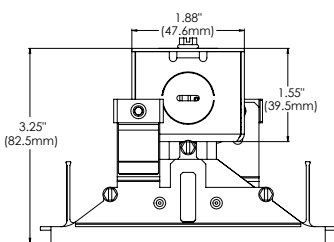
15/16" GEMINI Double Lens  
GEMD-XX-X-X-24-XX-X-W-UNV



9/16" GEMINI Single Lens  
GEMS-XX-X-X-15/15B-XX-X-W-UNV



15/16" GEMINI Single Lens  
GEMS-XX-X-X-24-XX-X-W-UNV



| Size    | Grid Type      | X   | Y     |
|---------|----------------|-----|-------|
| 2 = 2ft | 15/15B = 9/16" | 24" | 23.4" |
| 4 = 4ft | 15/15B = 9/16" | 48" | 47.4" |
| 5 = 5ft | 15/15B = 9/16" | 60" | 59.4" |

| Size    | Grid Type   | X   | Y   |
|---------|-------------|-----|-----|
| 2 = 2ft | 24 = 15/16" | 24" | 23" |
| 4 = 4ft | 24 = 15/16" | 48" | 47" |
| 5 = 5ft | 24 = 15/16" | 60" | 59" |



# T3AR FLEX®

*Innovative lighting engineered for seamless integration into  
the DESIGNFlex® Ceiling System by Armstrong® Ceiling Solutions.*



## *The* T-BAR FLEX<sup>®</sup>

JLC-Tech, a pioneer for architecturally integrated LED lighting solutions, in partnership with Armstrong<sup>®</sup> Ceiling Solutions, brings to you a new way to reinvent your ceiling with shapes and light.

Introducing the T-BAR FLEX<sup>®</sup>, a truly integrated lighting solution for the DESIGNFlex<sup>®</sup> Ceiling System. Utilizing JLC-Tech's patented technology of replacing the cross tees in a suspended ceiling, you can create lighting layouts like never before: From zig-zag linear patterns, to geometric shapes, the possibilities are endless.

**JLC-Tech – “It takes a genius to make it simple.”**



# Installation with **Armstrong**® is tool-free

CEILING SOLUTIONS

The XM clip, specifically designed for JLC-Tech, is mounted at each end of the T-BAR FLEX for easy installation into the DESIGNFlex® Ceiling System by Armstrong® Ceilings. It allows the fixture to become a part of the certified ceiling assembly, eliminating the need for support wires. T-BAR FLEX replaces selected cross tees of the 9/16" suspension system where light is desired. (See installation instruction for more details.)

## T-BAR FLEX® key benefits

### no plenum occupancy

The minimalistic low profile lighting leaves the space above the ceiling completely unoccupied and facilitates the placement of other ceiling utilities.

### improved acoustics

The clean modern lights occupy the grid, allowing for the use of uninterrupted ceiling panels, creating a uniform ceiling design and optimizing sound absorption and light reflectance.

### reduce and save

Installation is a snap and requires no tools.

### even foot candles

The versatile lighting can be placed in the ceiling wherever light is needed or desired, resulting in a more uniform illumination and the ability to achieve the required foot candles.

T-BAR FLEX® clips  
into DESIGNFlex®  
Ceiling System



example lighting layout of 60° triangle

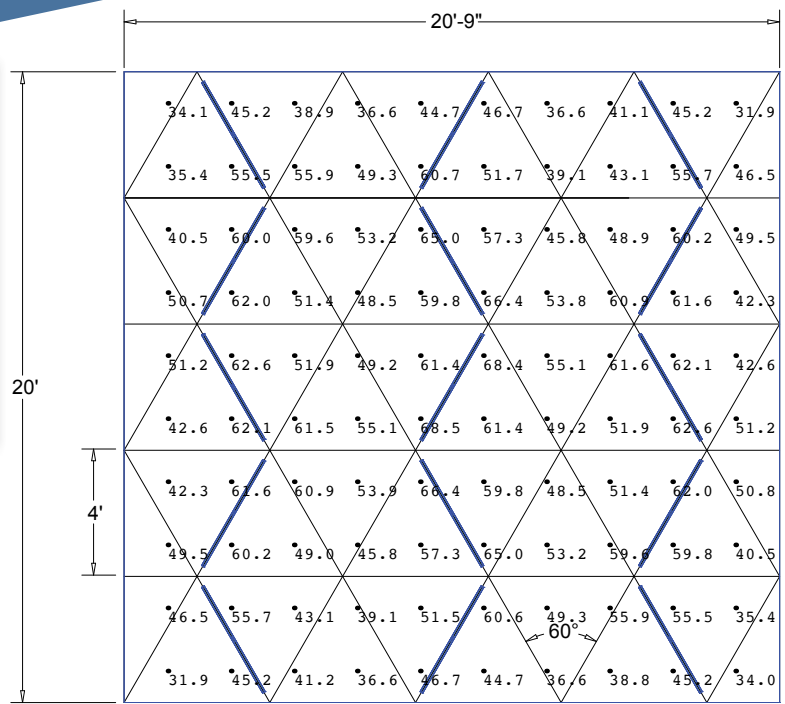
#### Room dimensions:

20' 9" X 20'  
ceiling height – 9ft

#### Quantity of product:

15 pcs – TBFL-MN-49-15-D-A-W  
T-BAR FLEX 48" OC, 60° 9/16" (4000K)

Average foot candle achieved at desk: 51.15 FC



Foot candle at desk

| Product Name             | LED/K Color  | Light Output  | Grid Size   | Grid Type         | Optic   | Mounting Clips                             | Color   | Driver   | Options  |
|--------------------------|--|---|---|-------------------|---|--|---|--|--|
| <b>TBFL</b> = T-BAR FLEX | <b>HW</b> = 3000K<br><b>MW</b> = 3500K<br><b>MN</b> = 4000K<br><b>HN</b> = 4500K<br><b>CN</b> = 5000K<br><br>90 CRI available, on request. | <b>LO</b> = Low<br><b>MO</b> = Medium<br><b>HO</b> = High<br><br>Custom lumen outputs available, consult factory. | <b>16</b> = 75° 24" MBS<br><b>22</b> = 60° 24" MBS<br><b>30</b> = 45° 24" MBS<br><b>41</b> = 75° 48" MBS<br><b>49</b> = 60° 48" MBS<br><b>64</b> = 45° 48" MBS<br>(MBS = Main Beam Spacing) | <b>15</b> = 9/16" | <b>D</b> = Diffusing Lens<br><b>DW</b> = Diffused White Lens<br><b>B</b> = Block Clear Diffusing Lens<br><b>B2</b> = Block Frosted Diffusing Lens | <b>A</b> = Armstrong® DesignFlex® Ceilings | <b>W</b> = White<br><b>B</b> = Black<br><b>C</b> = Custom | <b>UNV</b> = Universal 120-277V 0-10V dimming<br><b>POE</b> = Power over Ethernet* | <b>CP</b> = Chicago Plenum<br><br>Optional EM Battery Kit available (sold separately). |
| www.jlc-tech.com/patents |  |   |   |                   |   |  |   | *For PoE, consult factory  |  |

## Optional Accessory

## Grid Size

## Color

TBFL-PA = T-BAR FLEX Perimeter Accessory\*\*

15 = 9/16"

**W** = White  
**B** = Black  
**C** = Custom

\*\*See page 26 for additional info

Diffusing Lens (D)



Diffused White Lens (DW)



Block Clear Diffusing Lens (B)



Block Frosted Diffusing Lens (B2)



## NOTES:

T-BAR FLEX is designed for seamless integration into DESIGNFlex® Ceiling Systems by Armstrong® Ceilings. Create unique shapes and patterns beyond the traditional ceiling layout. Armstrong Ceiling clips allow for easy installation, just as you would install a typical XM cross tee.

## APPLICATIONS:

Executive, Medical, Health, Educational, Retail, Hotels, Airport, Hospitality and any open space areas that require a unique and elegant architectural lighting design.

## MOUNTING:

Integrates with Armstrong Ceilings DESIGNFlex 9/16" Suprafine® Suspension Systems. Compatible with Tegular and Lay-in tiles.

## MATERIALS:

Anodized and painted aluminum extruded body, steel mounting clips, PC end caps, high transmitting acrylic PMMA lens.

## ELECTRIC:

Universal input voltage of 120V – 277VAC. Junction box installed on fixture with integral driver and wire nuts inside for connection to line voltage and 0-10VDC dimming system. Fixture must be installed in accordance with local electrical codes. For EM Battery Kit order separately. PoE options available, consult factory.

## WARRANTY:

5 years limited warranty. For complete warranty terms, please visit our website.

## LISTINGS:

ETL/cETLus CE RoHS Indoor use only.



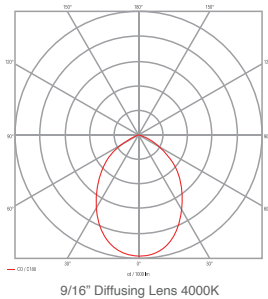
The T-BAR FLEX® is specifically designed for DESIGNFlex® Ceiling Systems by Armstrong® Ceilings Solutions. To learn more about this ceiling system visit [www.armstrongceilings.com/designflex](http://www.armstrongceilings.com/designflex)

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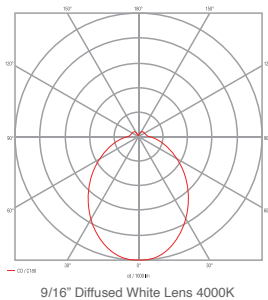


Photometrics CRI = &gt;82

 $L_{80} > 60K$  hrs

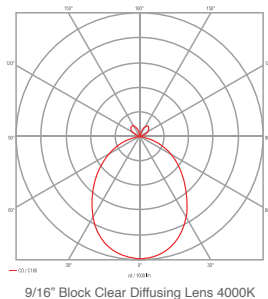
## Diffusing Lens – Grid Type: 15

| Code Selection     | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|--------------------|----------------|------------------|-----------------|
| <b>LO</b> = Low    | 354            | 4.2              | 84              |
| <b>MO</b> = Medium | 472            | 5.5              | 86              |
| <b>HO</b> = High   | 902            | 10.6             | 85              |



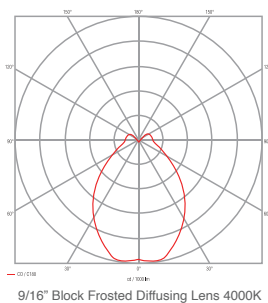
## Diffused White Lens – Grid Type: 15

| Code Selection     | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|--------------------|----------------|------------------|-----------------|
| <b>LO</b> = Low    | 255            | 4.2              | 61              |
| <b>MO</b> = Medium | 340            | 5.5              | 62              |
| <b>HO</b> = High   | 650            | 10.6             | 61              |



## Block Clear Diffusing Lens – Grid Type: 15

| Code Selection     | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|--------------------|----------------|------------------|-----------------|
| <b>LO</b> = Low    | 351            | 4.2              | 84              |
| <b>MO</b> = Medium | 468            | 5.5              | 85              |
| <b>HO</b> = High   | 893            | 10.6             | 84              |



## Block Frosted Diffusing Lens – Grid Type: 15

| Code Selection     | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|--------------------|----------------|------------------|-----------------|
| <b>LO</b> = Low    | 358            | 4.2              | 85              |
| <b>MO</b> = Medium | 477            | 5.5              | 87              |
| <b>HO</b> = High   | 911            | 10.6             | 86              |

Above photometric data based on 30" T-BAR FLEX model, refer to IES files for more specific information.

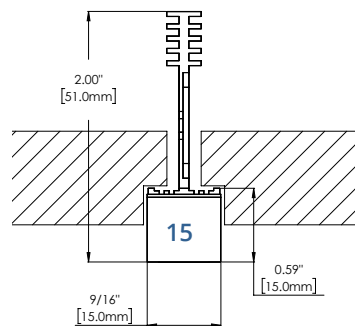
JLC-Tech LLC | Pembroke, MA – USA | [info@jlc-tech.com](mailto:info@jlc-tech.com) | [www.jlc-tech.com](http://www.jlc-tech.com)

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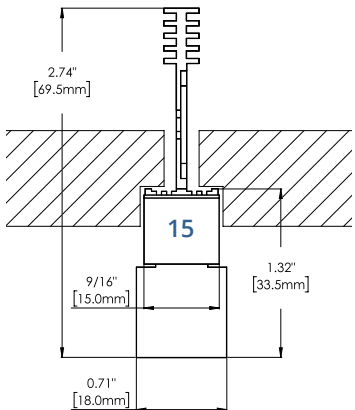
MADE IN USA

JLC-Tech

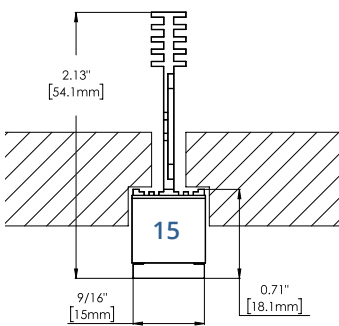
Profile Dimensions (Compatible with DESIGNFlex Ceiling Tiles)



9/16" Diffusing Lens  
TBFL-XX-X-15-D-A-X-X



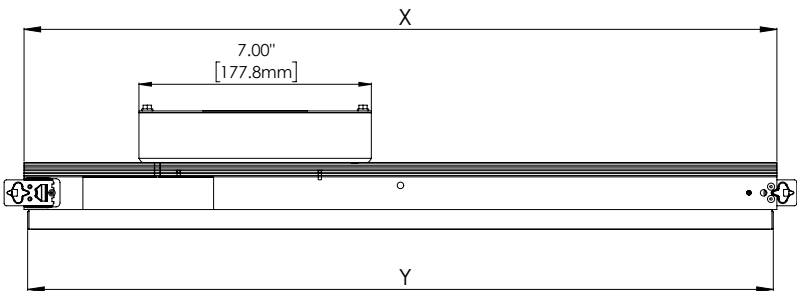
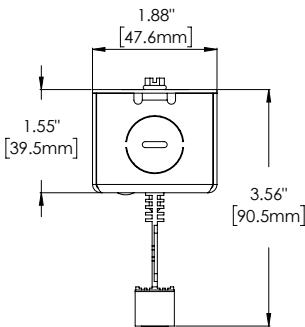
9/16" Block Lens  
TBFL-XX-X-15-B/B2-A-X-X



9/16" Diffuse White  
TBFL-XX-X-15-DW-A-X-X

Clear block and frosted block variable heights 1/2" - 4" available, consult factory.

Length Dimensions



| Grid Size | Description | Grid Type | Replaces DESIGNFlex® ceiling T code | X      | Y      |
|-----------|-------------|-----------|-------------------------------------|--------|--------|
| 16        | 75° 24" MBS | 9/16"     | XM757524                            | 16.92" | 16.67" |
| 22        | 60° 24" MBS | 9/16"     | XM756024                            | 22.68" | 22.42" |
| 30        | 45° 24" MBS | 9/16"     | XM754524                            | 30.43" | 30.17" |
| 41        | 75° 48" MBS | 9/16"     | XM757548                            | 41.66" | 41.41" |
| 49        | 60° 48" MBS | 9/16"     | XM756048                            | 49.51" | 49.25" |
| 64        | 45° 48" MBS | 9/16"     | XM754548                            | 64.37" | 64.11" |

\* Diffusing Lens 4000K

MBS = Main Beam Spacing

For DESIGNFlex square and rectangle patterns please refer to T-BAR LED® product line at [www.jlc-tech.com](http://www.jlc-tech.com)



The T-BAR FLEX® is specifically designed for DESIGNFlex® Ceilings Systems by Armstrong® Ceilings Solutions. To learn more about this ceiling system visit [www.armstrongceilings.com/designflex](http://www.armstrongceilings.com/designflex)

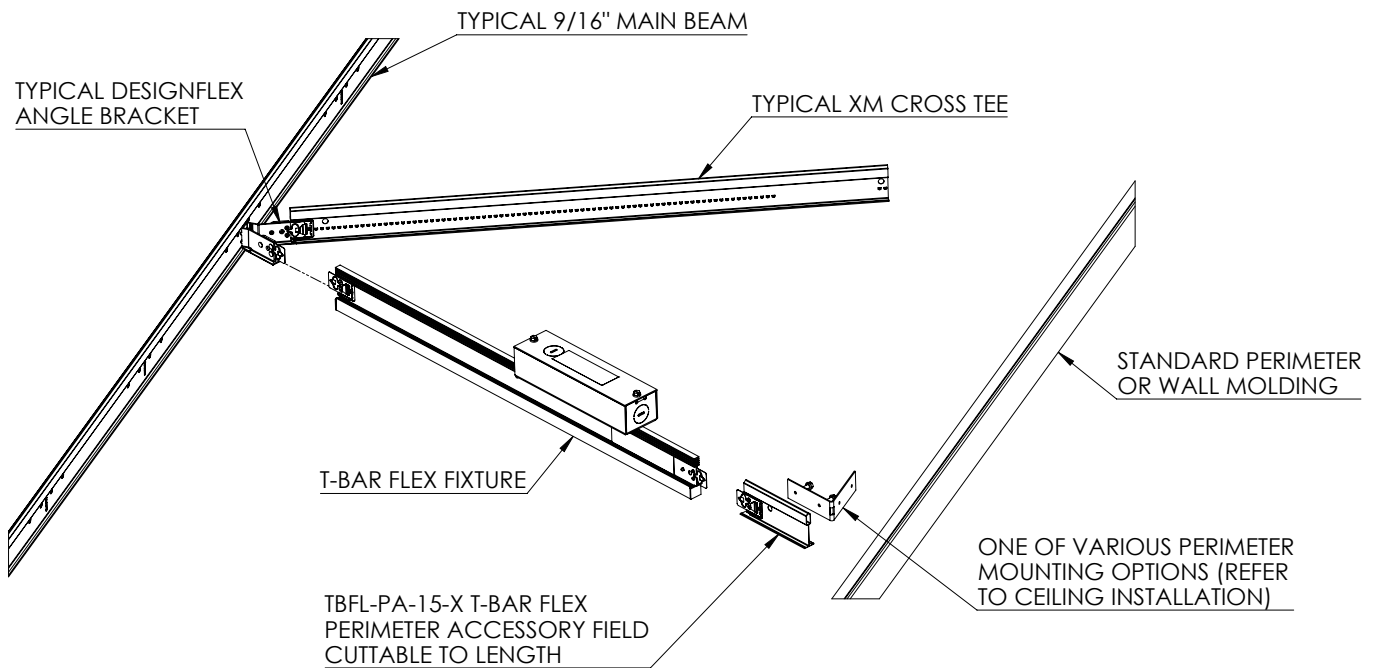
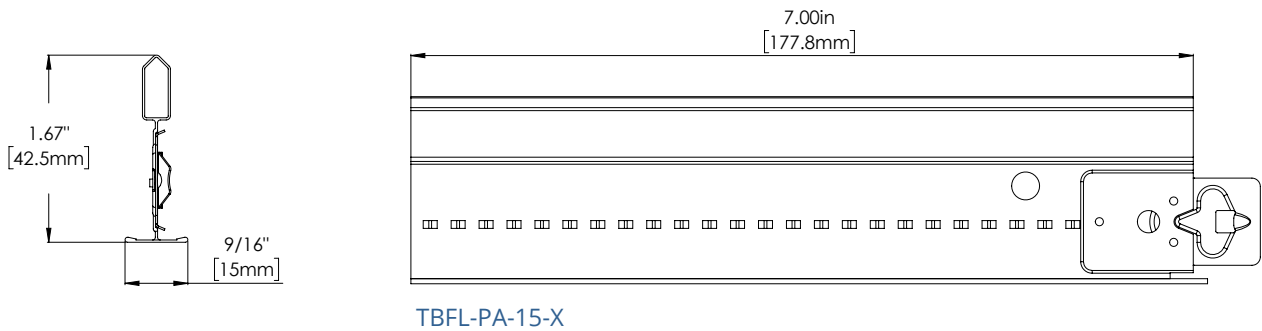
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## Perimeter Kit Accessory Dimensions

A T-BAR FLEX Perimeter Accessory is only necessary in DESIGNFlex ceilings when the T-BAR FLEX fixture is abutting the perimeter trim of a ceiling cloud or the wall molding.



The T-BAR FLEX® is specifically designed for DESIGNFlex® Ceilings Systems by Armstrong® Ceiling Solutions. To learn more about this ceiling system visit [www.armstrongceilings.com/designflex](http://www.armstrongceilings.com/designflex)

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MADE IN USA


JLC-Tech





Benham Architecture - Oklahoma City, OK  
Benham, A Haskell Company





# T-BAR QUADRO™

*A kit comprised of T-BAR LED® luminaires to create a 2x2 square of light.*



Block Clear Diffusing Lens



Diffusing Lens



Black Multi-Reflector Lens

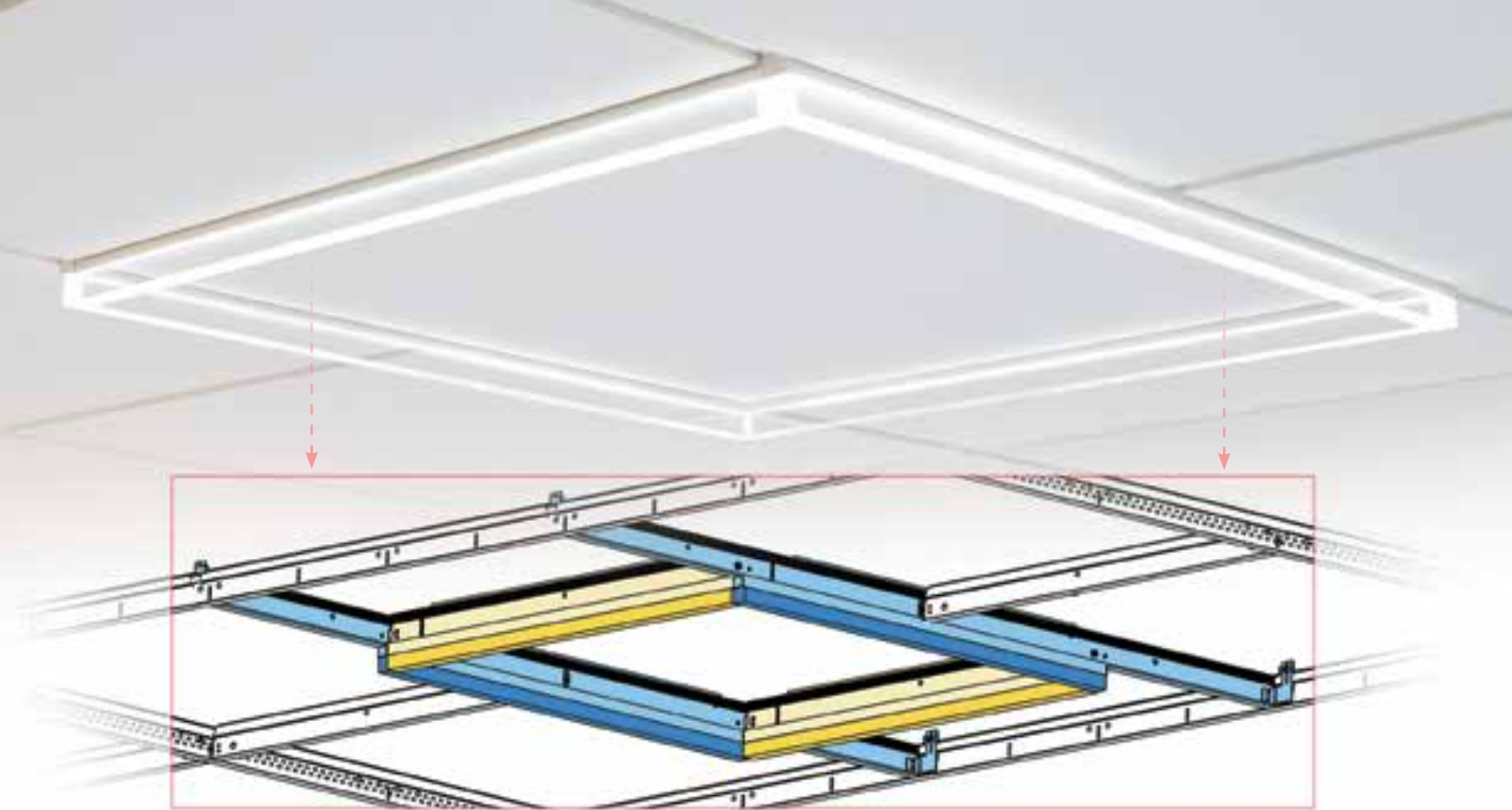
# T-BAR QUADRO™

by JLC • tech

T-BAR QUADRO introduces a new shape offering to complement the T-BAR LED® product line. Providing designers a tool to create additional lighting layout options including: concentric square within squares, checkered patterns throughout a space, or a complement to a geometric design.

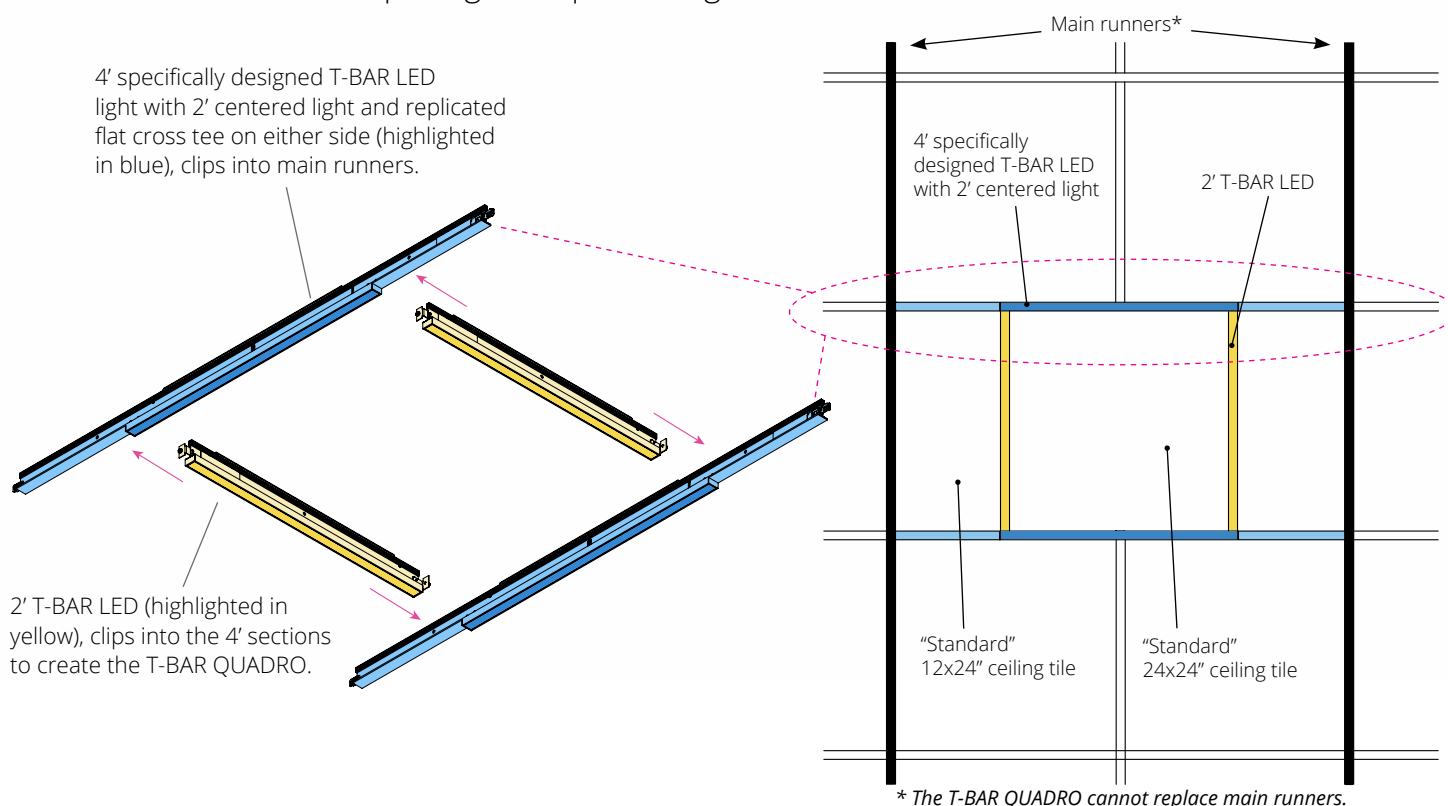
The T-BAR QUADRO is a kit comprised of standard T-BAR LED luminaires to create a 2x2 square of light by utilizing JLC-Tech's patented technology. Available in several offerings of T-BAR LED optics, as well as both 15/16" and 9/16" grid systems, the T-BAR QUADRO has maximum flexibility to complement any space.

*JLC-Tech is a pioneer in LED lighting, revolutionizing and challenging the status quo on how we illuminate our spaces.*



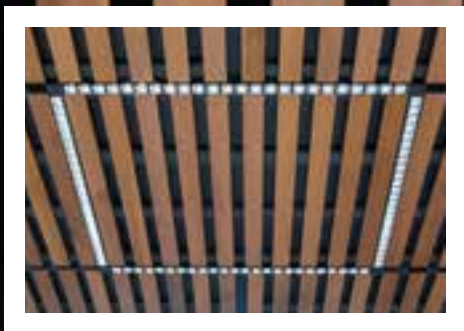
### How the T-BAR QUADRO™ works:

Complete squares of light can be created in a suspended grid ceiling using the T-BAR QUADRO by utilizing JLC-Tech's patented technology of replacing the cross tees with a building-integrated light fixture. Two specially designed 4' T-BAR LED lights with 2' of light at their center, clip into the main runners of the suspended ceiling system. Two 2' lights with specially designed mounting system clip into the 4' members, completing the square of light.



\* The T-BAR QUADRO cannot replace main runners.

T-BAR QUADRO™ Multi-Reflector Lens in Armstrong® Ceiling Solutions WoodWorks® Grille 15/16"



| Product Name               | LED/K Color  | Grid Size   | Grid Type   | Optic   | Mounting Clips  | Color   | Driver   | Options   |
|----------------------------|--|---|---|---|---|---|--|---|
| <b>TBQD</b> = T-BAR QUADRO | <b>HW</b> = 3000K<br><b>MW</b> = 3500K<br><b>MN</b> = 4000K<br><b>HN</b> = 4500K<br><b>CN</b> = 5000K<br><br>90 CRI available, on request. | <b>2Q</b> = 2 x 2 ft<br><b>Metric</b><br><b>6Q</b> = 60 x 60 cm | <b>24</b> = 15/16"<br><b>15</b> = 9/16"<br><b>15B</b> = 9/16" Bolt Slot | <b>D</b> = Diffusing Lens<br><b>B</b> = Block Clear Diffusing Lens<br><b>B2</b> = Block Frosted Diffusing Lens<br><b>C2</b> = Multi-Reflector<br><b>C2WH</b> = White Multi-Reflector<br><b>C2BL</b> = Black Multi-Reflector | <b>U</b> = Universal<br><b>A</b> = Armstrong<br><b>C</b> = Custom | <b>W</b> = White<br><b>B</b> = Black<br><b>C</b> = Custom | <b>UNV</b> = Universal 120-277V 0-10V dimming<br><b>UNVEM</b> = Universal 120-277V with battery backup | <b>CP</b> = Chicago Plenum<br><b>IP65</b> = IP65*<br><b>POE</b> = Power over Ethernet** |

www.jlc-tech.com/patents

\*Not available in C2 Model \*\*For PoE, consult factory

Diffusing Lens (D)



Block Clear Diffusing Lens (B)



Block Frosted Diffusing Lens (B2)



Multi-Reflector (C2)

**NOTES:**

T-BAR QUADRO kits are designed to provide a 2x2 square of light by replacing cross tees in a suspended ceiling. Kit includes Class 2 remote power supply with integrated JB compartment for 120 - 277V AC input direct wiring with metal conduit. Max distance from power supply to fixtures is 30 feet with 18 AWG wire. Longer distance achievable if using higher gauge wire. Please refer to the T-BAR LED power supply documentation for more detailed information. EM option includes remote driver pre-wired with battery backup. Refer to T-BAR LED EM Battery Kit documentation for more detailed information.

**APPLICATIONS:**

Executive, Medical, Health, Educational, Retail, Hotels, Airport, Hospitality and any open space areas that require a unique and elegant architectural lighting design.

**MOUNTING:**

Universal mounting brackets are for easy installation to standard 15/16" or 9/16" T-Bars of most manufacturers' 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. Compatible with Tegular and Lay-in tiles.

**MATERIALS:**

Anodized and painted aluminum extruded body, steel mounting clips, white PC end caps, high transmitting acrylic PMMA lens, (D, B, B2 Models), high reflectance 98% aluminum coated or white or black PC reflectors on each LED for a dark light effect, (C2 Models).

**ELECTRIC:**

Fixtures consume 64W per kit (power supply consumption not included). Class 2 plenum rated cables at each end of fixture equipped with quick connectors for connection to 24VDC power supply output and to allow the kit to be easily connected together. Use solid copper wire or wire ferrules to fit into quick connectors. Available with 0-10V nominal 1% dimming system. 120-277VAC input remote power supply included.

**WARRANTY:**

5 years

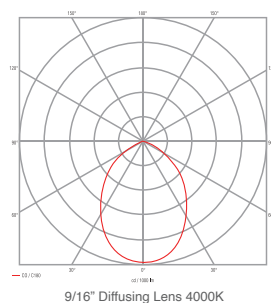
**LISTINGS:**

ETL/cETLus CE RoHS. Indoor use only. IC Rated. IP 40, IP 20 (C2 Models).

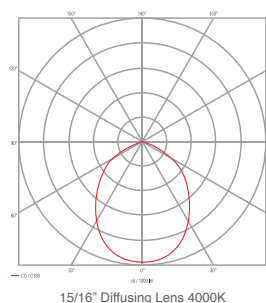


Photometrics    CRI = >82     $L_{80} > 60K$  hrs

### Diffusing

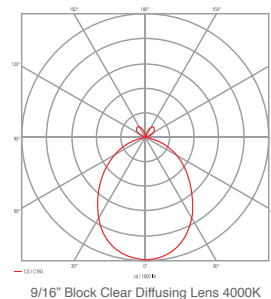


TBQD-MN-XX-15-D-X-X-X  
3560 lm  
54 lm/W

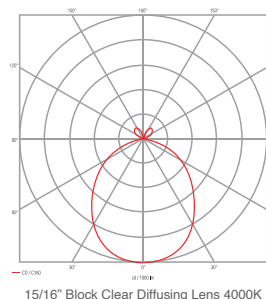


TBQD-MN-XX-24-D-X-X-X  
4672 lm per foot  
75 lm/W

### Block Clear Diffusing

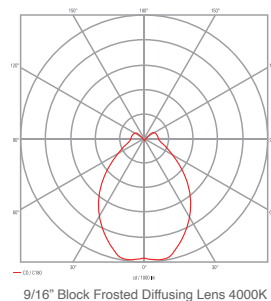


TBQD-MN-XX-15-B-X-X-X  
3504 lm  
56 lm/W

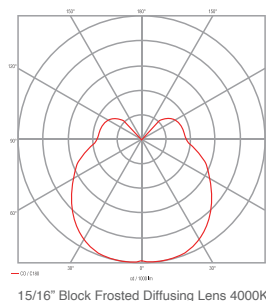


TBQD-MN-XX-24-B-X-X-X  
4512 lm  
72 lm/W

### Block Frosted Diffusing



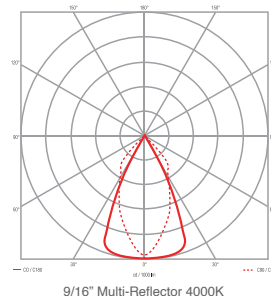
TBQD-MN-XX-15-B2-X-X-X  
3680 lm  
59 lm/W



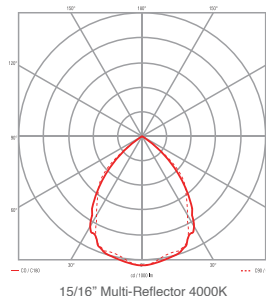
TBQD-MN-XX-24-B2-X-X-X  
4688 lm  
75 lm/W

### Multi-Reflector (metalized finish)

\*C2WH and C2BL IES files  
available on [www.jlc-tech.com](http://www.jlc-tech.com)

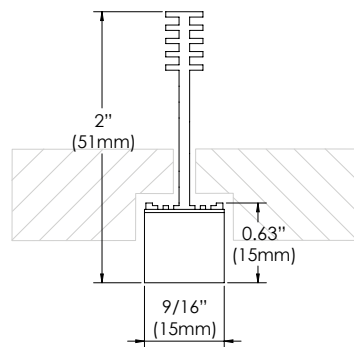


TBQD-MN-XX-15-C2-X-X-X  
6152 lm  
98 lm/W

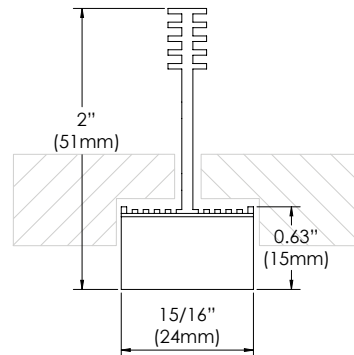


TBQD-MN-XX-24-C2-X-X-X  
6272 lm  
100 lm/W

*\*Complete photometric info and IES files are available for download at [www.jlc-tech.com](http://www.jlc-tech.com)*

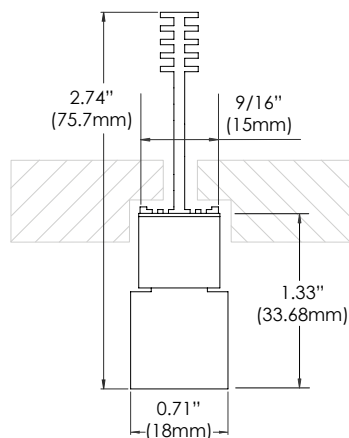
Profile Dimensions *(Compatible with Tegular and Lay-in tiles)*

9/16" Diffusing Lens/Multi-Reflector  
TBQD-XX-XX-15-D/C2-X-X-X

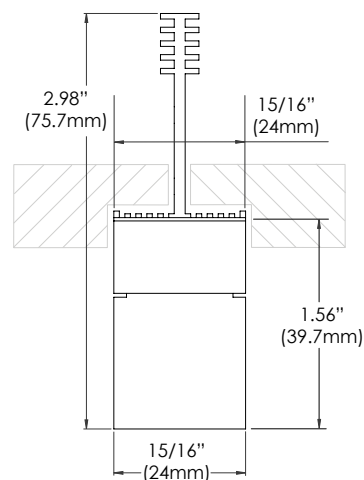


15/16" Diffusing Lens/Multi-Reflector  
TBQD-XX-XX-24-D/C2-X-X-X

*Clear block and frosted block variable heights 1/2" – 4" available, consult factory.*

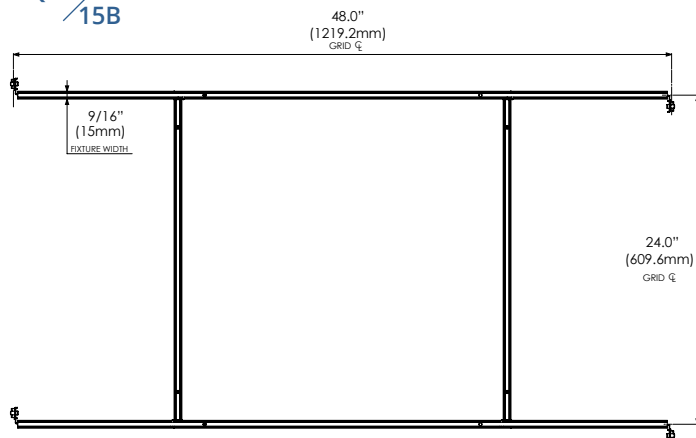


9/16" Block Lens  
TBQD-XX-XX-15-B/B2-X-X-X

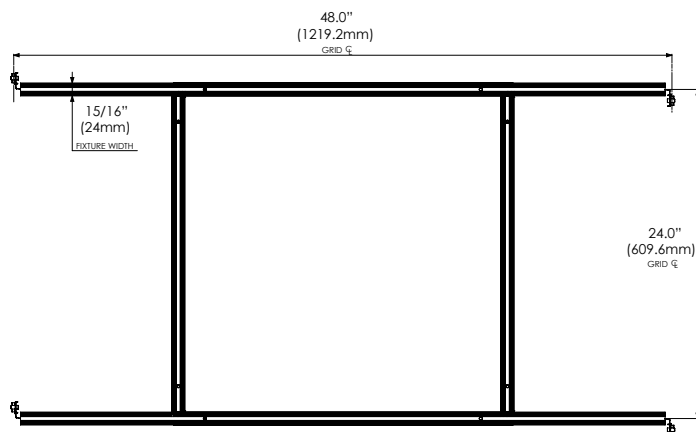


15/16" Block Lens  
TBQD-XX-XX-24-B/B2-X-X-X

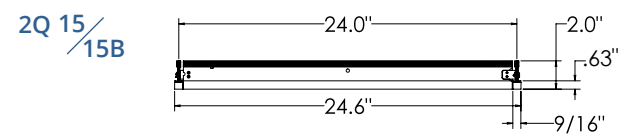
## Dimensions

2Q 15/  
15B

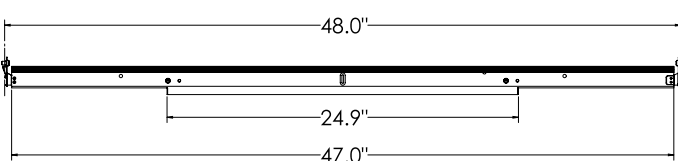
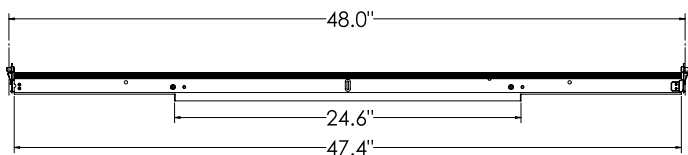
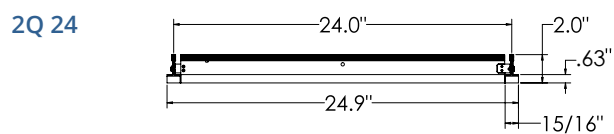
2Q 24



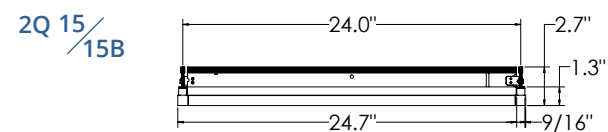
## Diffusing Lens/Multi-Reflector

2Q 15/  
15B

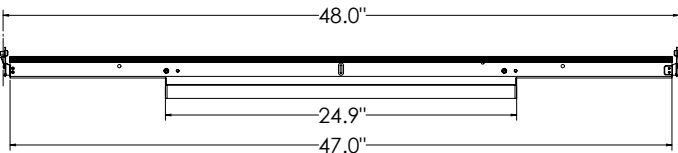
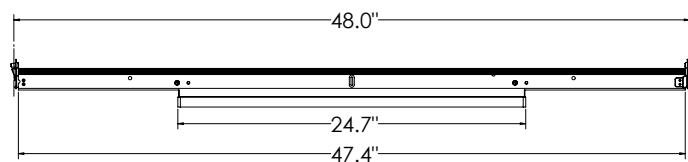
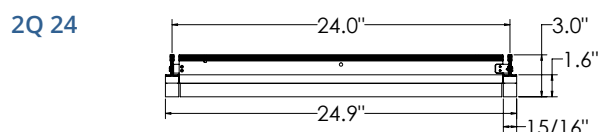
2Q 24



## Block Clear/Block Frosted Diffusing Lens

2Q 15/  
15B

2Q 24





Cafeteria



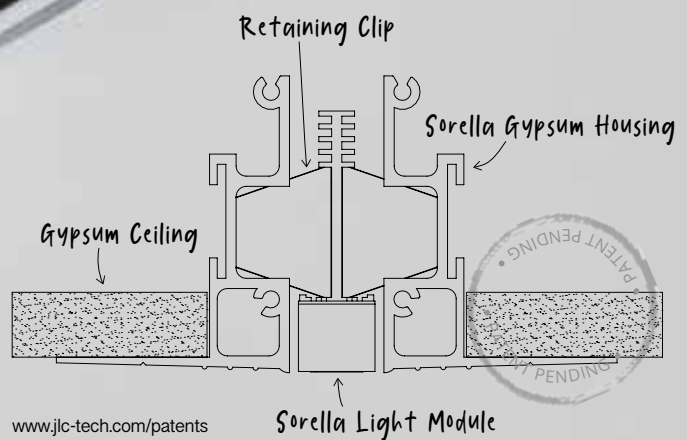
# Sorella™

*Introducing T-BAR LED's sister –Sorella!  
Modular lighting for integration with gypsum ceilings.*



# Sorella™

by JLC • tech



[www.jlc-tech.com/patents](http://www.jlc-tech.com/patents)

JLC-Tech is proud to introduce T-BAR LED's sister, Sorella – a modular integrated lighting solution for gypsum ceilings. Sorella provides the same experience as the T-BAR LED and applies it to gypsum ceilings, creating a cohesive architectural lighting layout across mixed ceiling types.

Available in various lengths and with the entire suite of T-BAR LED® performance optics, you can now expand your JLC-Tech lighting design beyond grid ceiling systems!



## 1. Specify Light Module

| Product Name                      | LED/K Color   | Length   | Aperture                                | Optic   | Color   | Options  |
|-----------------------------------|---|--|---|---|---|--|
| <b>SOR</b> = Sorella Light Module | <b>HW</b> = 3000K<br><b>MW</b> = 3500K<br><b>MN</b> = 4000K<br><b>HN</b> = 4500K<br><b>CN</b> = 5000K<br><b>TU</b> = 2700-5000K tunable*<br>90 CRI available, on request. | <b>1</b> = 1 ft<br><b>2</b> = 2 ft<br><b>3</b> = 3 ft<br><b>4</b> = 4 ft | <b>24</b> = 15/16"<br><b>15</b> = 9/16" | <b>D</b> = Diffusing Lens<br><b>B</b> = Block Clear Diffusing Lens<br><b>B2</b> = Block Frosted Diffusing Lens<br><b>C2</b> = Multi-Reflector<br><b>C2WH</b> = White Multi-Reflector<br><b>C2BL</b> = Black Multi-Reflector<br><b>A2</b> = Asymmetric<br><b>S</b> = Signage | <b>W</b> = White<br><b>B</b> = Black<br><b>C</b> = Custom | <b>IP</b> = IP65*<br><br>Optional EM Battery/Driver Kit available (sold separately). |

## 2. Specify Housing

| Product Name                  | Length   | Aperture                                | Mounting  | Color   | Options                      |
|-------------------------------|--|---|---|---|------------------------------|
| <b>SORH</b> = Sorella Housing | <b>1</b> = 1 ft<br><b>2</b> = 2 ft<br><b>3</b> = 3 ft<br><b>4</b> = 4 ft | <b>24</b> = 15/16"<br><b>15</b> = 9/16" | <b>MF</b> = Mud Flange<br><b>FL</b> = Flange Trim | <b>W</b> = White<br><b>B</b> = Black<br><b>C</b> = Custom<br>Leave blank for Mud-Flange | <b>CP</b> = Chicago Plenum** |

www.jlc-tech.com/patents

\*\*Not available in 9/16"

Example specification code: **SOR-MW-1-15-B-W + SORH-1-15-MF**

Diffusing Lens (D)



Block Clear Diffusing Lens (B)



Block Frosted Diffusing Lens (B2)



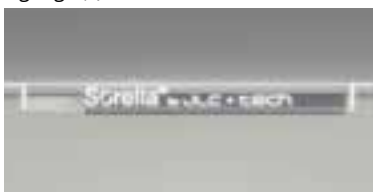
Multi-Reflector (C2BL)



Asymmetric Lens (A2)



Signage (S)



## NOTES:

Sorella modules can be parallel connected up to 12 linear feet max per power supply. Remote power supply includes JB compartment for AC input direct wiring with metal conduit, must be installed in an accessible location. Max distance from power supply to fixtures is 30 feet with 18 AWG wire. Longer distance achievable if using higher gauge wire.

\*Power supply ordered separately (refer to website).

## APPLICATIONS:

Executive, Medical, Health, Educational, Retail, Hotels, Airport, Hospitality and any open space areas that require a unique and elegant architectural lighting design.

## MOUNTING:

Mud flange housing for trimless installation into gypsum ceiling applications. Appropriate backer or fasteners required. Flange trim mounting with spring clips also available.

## MATERIALS:

**Light Module:** Anodized and painted aluminum extruded body, stainless steel mounting clips, white PC end caps, high transmitting acrylic PMMA lens, (D, B, B2 Models), high reflectance 98% aluminum coated or white or black PC reflectors on each LED for a dark light effect, (C2 Models).

**Housing:** Aluminum extruded, flange trim option powdered coated.

## ELECTRICAL/OPTICAL:

Fixtures consume 8W total (1 foot), 16W total (2 foot), 24W total (3 foot), or 32W total (4 foot). Power supply consumption not included. Input voltage 24VDC. Plenum rated input cable provided with quick connector to allow multiple modules to be easily connected together (max 12 linear feet of product). Use solid copper wire or wire ferrules to fit into quick connectors. For EM Battery/Driver Kit, order separately.

For Chicago Plenum option, housing is provided with a gasketed and sealed junction box, refer to website for more info

## WARRANTY:

5 years

## LISTINGS:

ETL/CETLus CE RoHS. Indoor use only.

IC Rated. IP 40, IP 20 (C2 Models).

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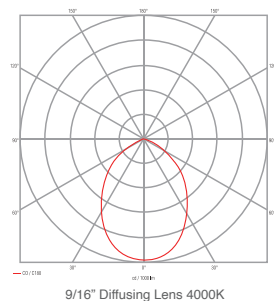
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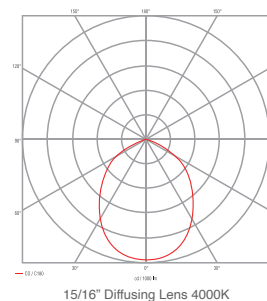
JLC-Tech

Photometrics    CRI = >82     $L_{80} > 60K$  hrs

## Diffusing

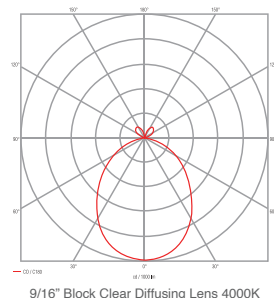


SOR-MN-X-15-D-X  
445 lm per foot  
54 lm/W

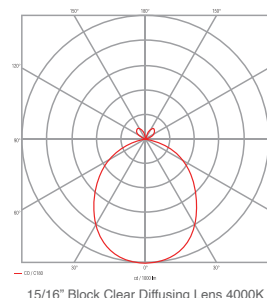


SOR-MN-X-24-D-X  
584 lm per foot  
75 lm/W

## Block Clear Diffusing

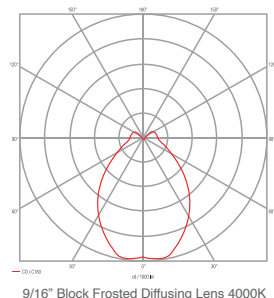


SOR-MN-X-15-B-X  
438 lm per foot  
56 lm/W

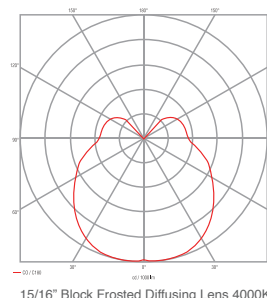


SOR-MN-X-24-B-X  
564 lm per foot  
72 lm/W

## Block Frosted Diffusing



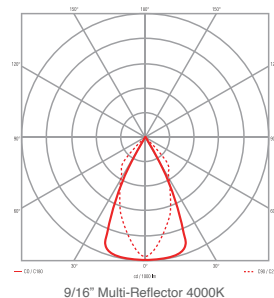
SOR-MN-X-15-B2-X  
460 lm per foot  
59 lm/W



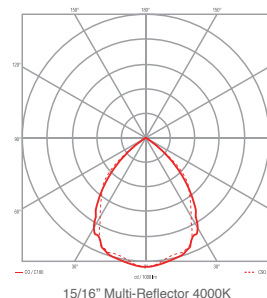
SOR-MN-X-24-B2-X  
586 lm per foot  
75 lm/W

Multi-Reflector  
(metalized finish)

\*C2WH and C2BL IES files  
available on [www.jlc-tech.com](http://www.jlc-tech.com)

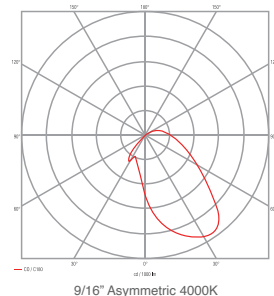


SOR-MN-X-15-C2-X  
769 lm per foot  
98 lm/W

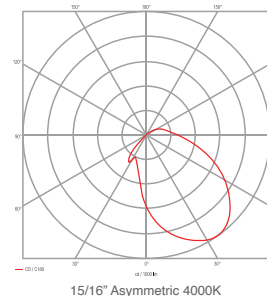


SOR-MN-X-24-C2-X  
784 lm per foot  
100 lm/W

## Asymmetric



SOR-MN-X-15-A2-X  
484 lm per foot  
62 lm/W



SOR-MN-X-24-A2-X  
582 lm per foot  
75 lm/W

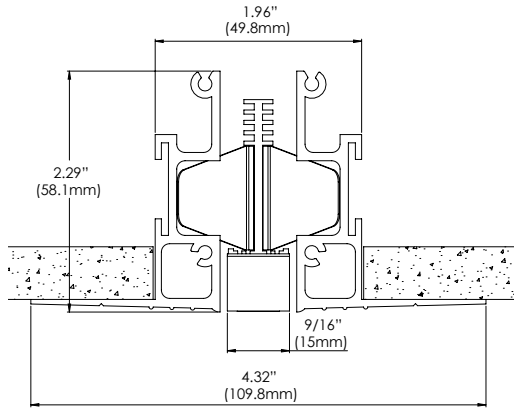
\*Complete photometric info and IES files are available for download at [www.jlc-tech.com](http://www.jlc-tech.com)

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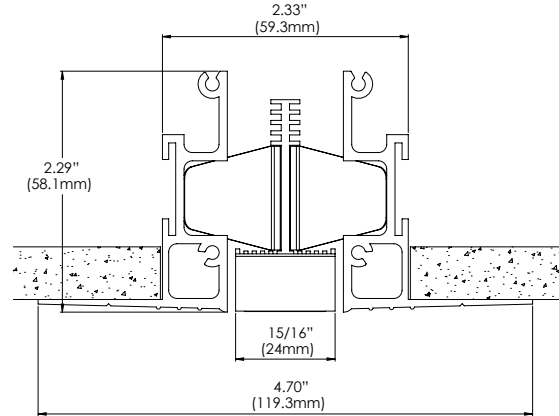


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## Profile Dimensions for Mud Flange

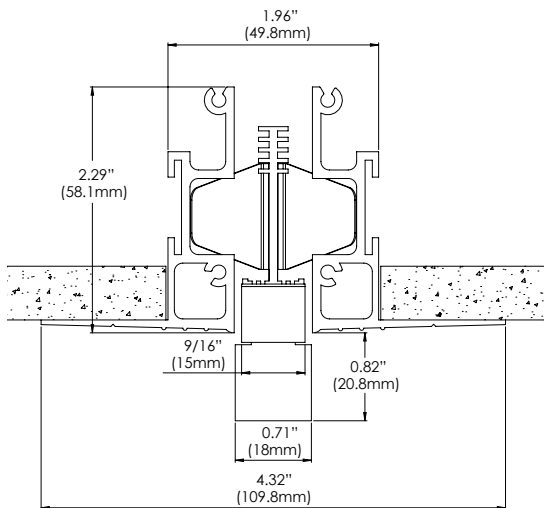


9/16" Diffusing Lens/Multi-Reflector  
SOR-XX-X-15-D/C2-X + SORH-X-15-MF

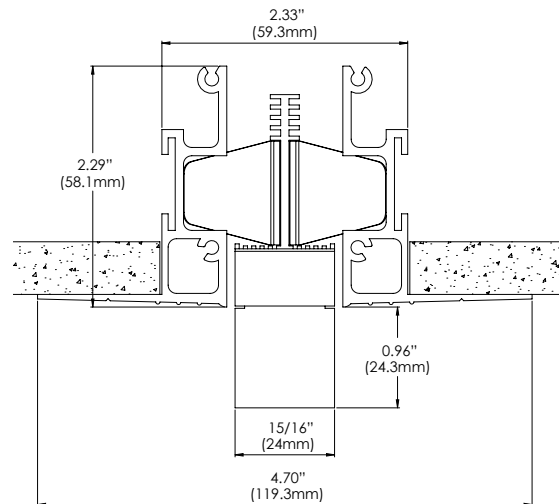


15/16" Diffusing Lens/Multi-Reflector  
SOR-XX-X-24-D/C2-X + SORH-X-24-MF

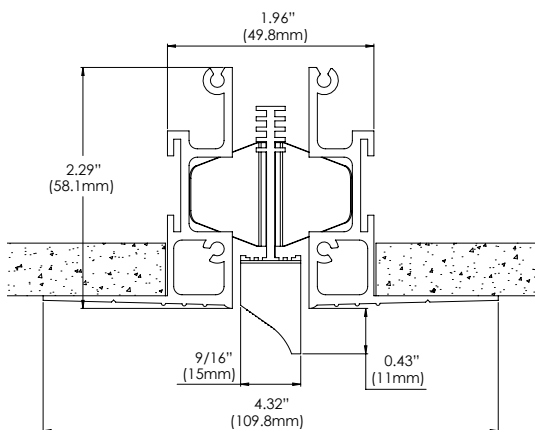
Clear block and frosted block variable heights 1/2" – 4" available, consult factory.



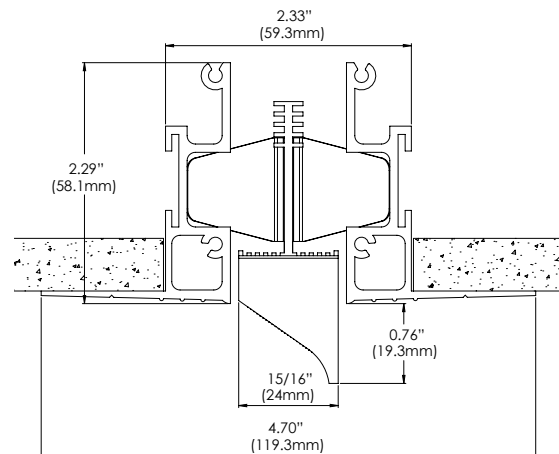
9/16" Block Lens  
SOR-XX-X-15-B/B2-X + SORH-X-15-MF



15/16" Block Lens  
SOR-XX-X-24-B/B2-X + SORH-X-24-MF



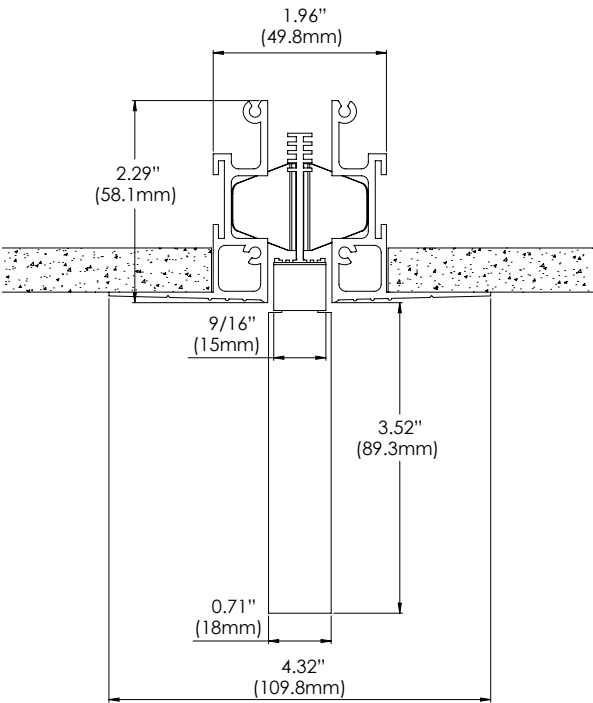
9/16" Asymmetric Lens  
SOR-XX-X-15-A2-X + SORH-X-15-MF



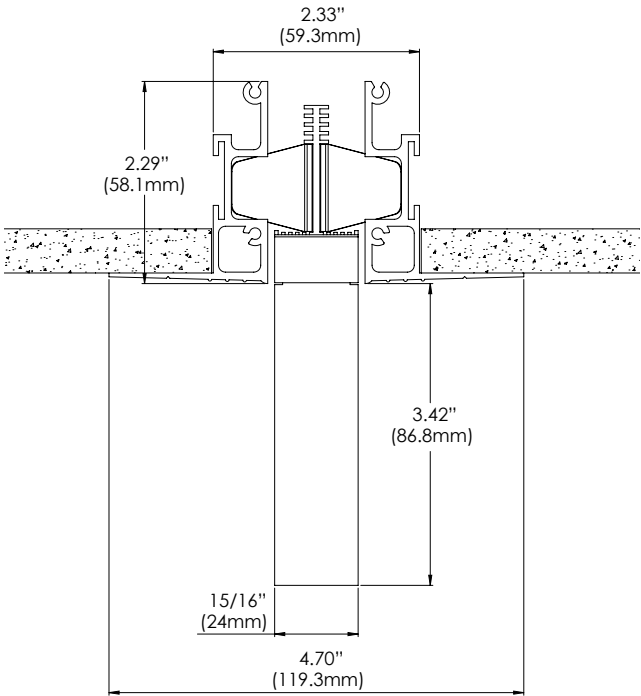
15/16" Asymmetric Lens  
SOR-XX-X-24-A2-X + SORH-X-24-MF



Profile Dimensions for Mud Flange

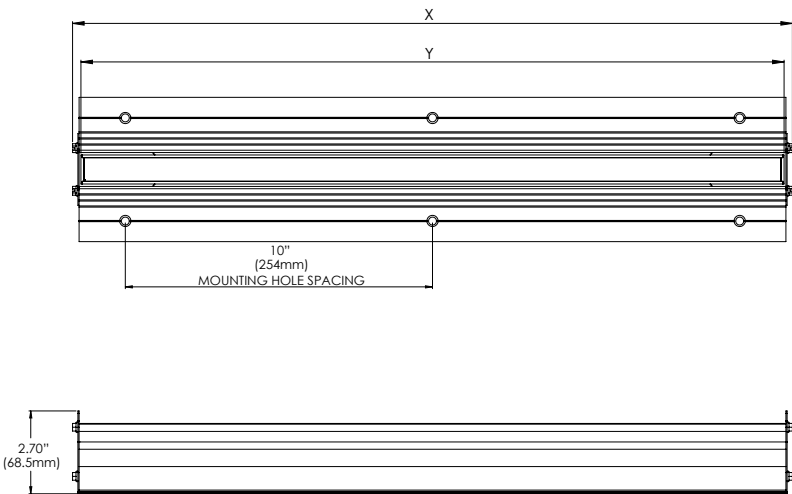


9/16" Signage  
SOR-XX-X-15-S-X + SORH-X-15-MF



15/16" Signage  
SOR-XX-X-24-S-X + SORH-X-24-MF

Length Dimensions for Mud Flange

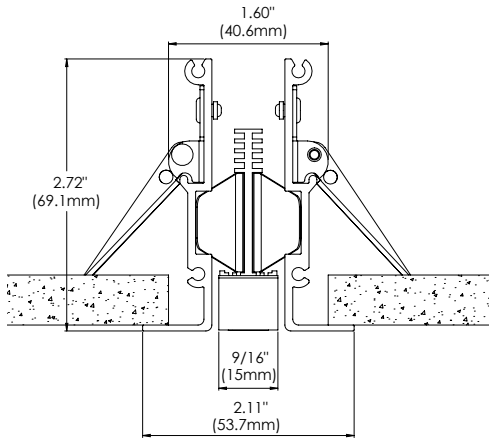


\*For gypsum cut-out dimensions, refer to installation instruction.

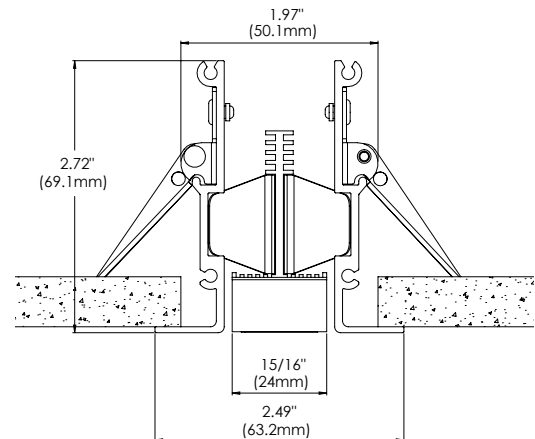
| Length  | Aperture   | X     | Y     |
|---------|------------|-------|-------|
| 1 = 1ft | 15 = 9/16" | 12.1" | 11.6" |
| 2 = 2ft | 15 = 9/16" | 23.4" | 22.9" |
| 3 = 3ft | 15 = 9/16" | 34.8" | 34.2" |
| 4 = 4ft | 15 = 9/16" | 46.1" | 45.6" |

| Length  | Aperture    | X     | Y     |
|---------|-------------|-------|-------|
| 1 = 1ft | 24 = 15/16" | 12.1" | 11.6" |
| 2 = 2ft | 24 = 15/16" | 23.4" | 22.9" |
| 3 = 3ft | 24 = 15/16" | 34.8" | 34.2" |
| 4 = 4ft | 24 = 15/16" | 46.1" | 45.6" |

## Profile Dimensions for Flange Trim

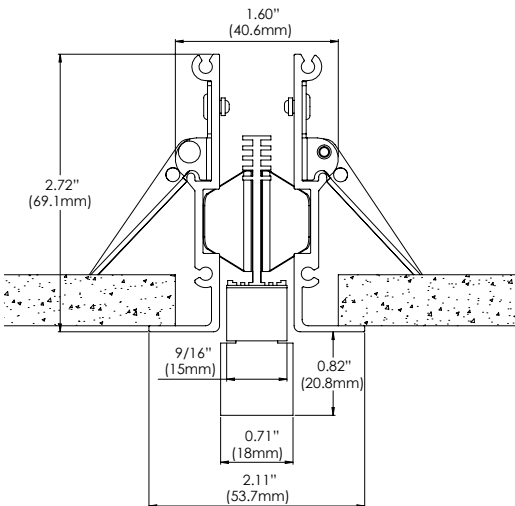


9/16" Diffusing Lens/Multi-Reflector  
SOR-XX-X-15-D/C2-X + SORH-X-15-FL

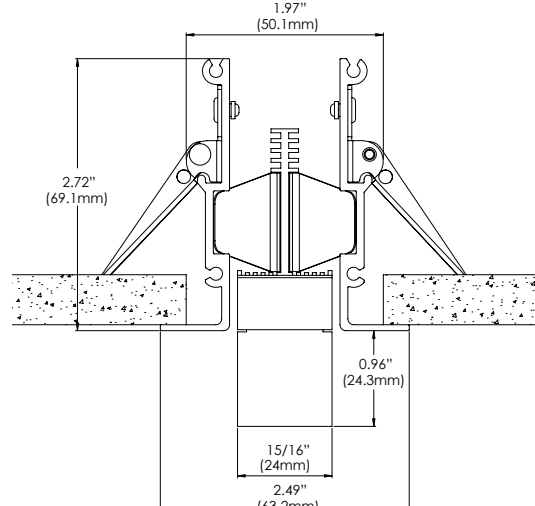


15/16" Diffusing Lens/Multi-Reflector  
SOR-XX-X-24-D/C2-X + SORH-X-24-FL

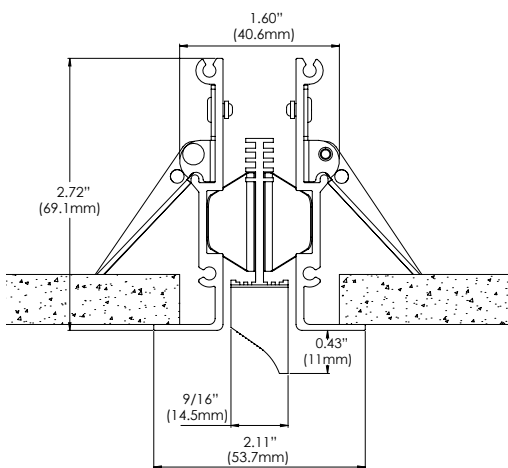
Clear block and frosted block variable heights 1/2" – 4" available, consult factory.



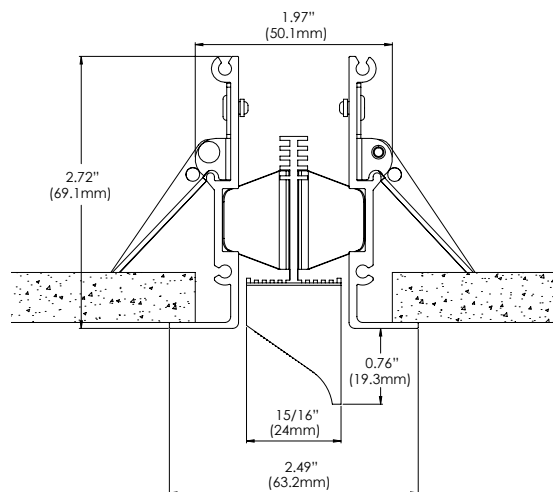
9/16" Block Lens  
SOR-XX-X-15-B/B2-X + SORH-X-15-FL



15/16" Block Lens  
SOR-XX-X-24-B/B2-X + SORH-X-24-FL



9/16" Asymmetric Lens  
SOR-XX-X-15-A2-X + SORH-X-15-FL



15/16" Asymmetric Lens  
SOR-XX-X-24-A2-X + SORH-X-24-FL

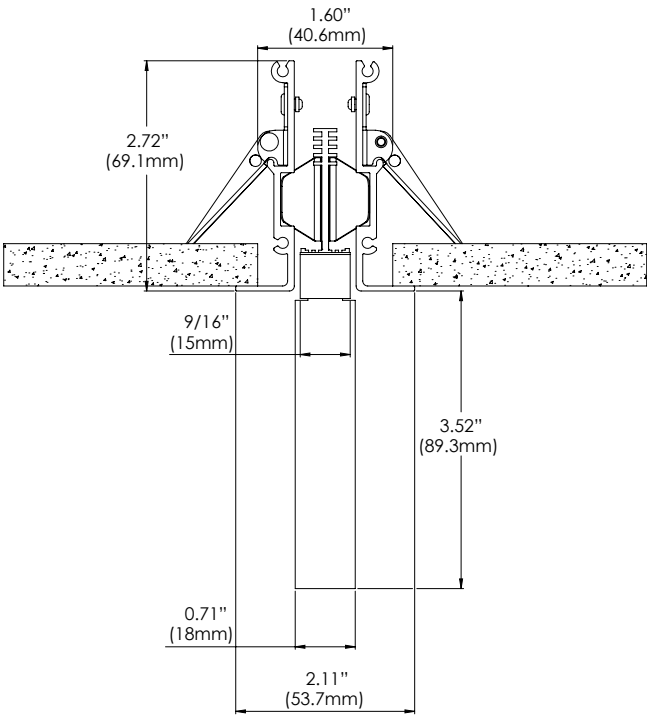
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MADE IN USA

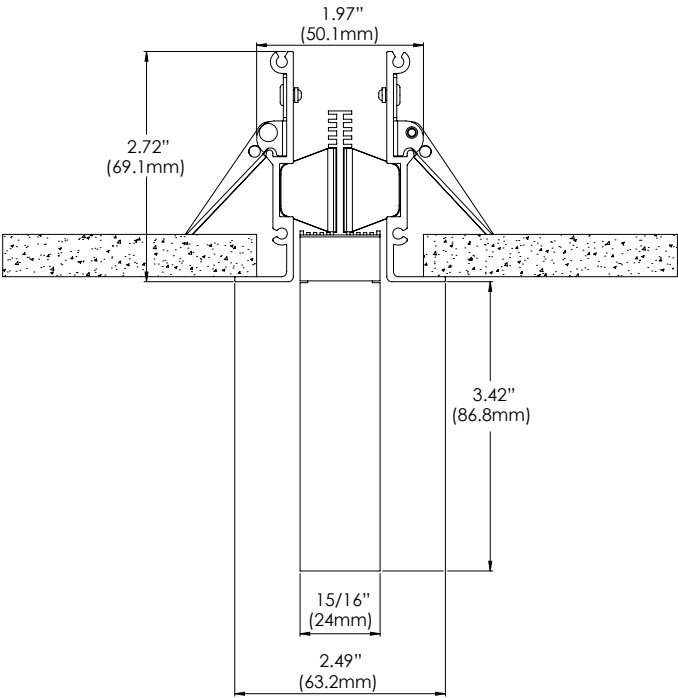
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Profile Dimensions for Flange Trim

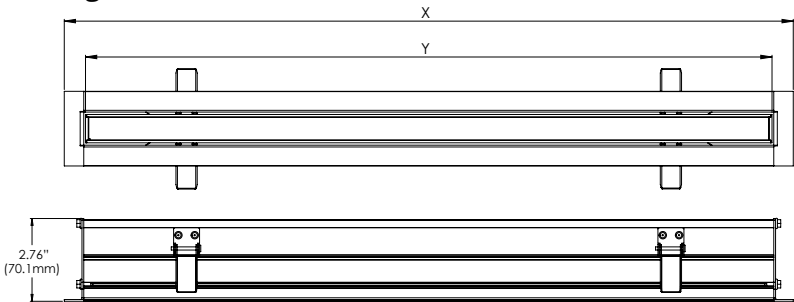


9/16" Signage  
SOR-XX-X-15-S-X + SORH-X-15-FL



15/16" Signage  
SOR-XX-X-24-S-X + SORH-X-24-FL

Length Dimensions for Flange Trim



*\*For gypsum cut-out dimensions, refer to installation instruction.*

| Length  | Aperture    | X    | Y    |
|---------|-------------|------|------|
| 1 = 1ft | 15 = 9/16"  | 13.0 | 11.6 |
| 1 = 1ft | 24 = 15/16" | 13.0 | 11.6 |
| 2 = 2ft | 15 = 9/16"  | 24.3 | 22.9 |
| 2 = 2ft | 24 = 15/16" | 24.3 | 22.9 |
| 3 = 3ft | 15 = 9/16"  | 35.6 | 34.2 |
| 3 = 3ft | 24 = 15/16" | 35.6 | 34.2 |
| 4 = 4ft | 15 = 9/16"  | 47   | 45.6 |
| 4 = 4ft | 24 = 15/16" | 47   | 45.6 |



## T-BAR LED<sup>®</sup> X<sub>SERIES</sub>

*A line voltage version of the T-BAR LED<sup>®</sup> offering enhanced efficiency and a choice of lumen outputs.*



# T-BAR LED<sup>®</sup> X<sub>SERIES</sub>

by JLC • tech

*Photo above featuring:  
Coast Industrial Systems - San Diego, CA  
Interior Designer: FS Design Group*

T-BAR LED X-Series is a line voltage version of the T-BAR LED offering enhanced efficiency and a choice of lumen outputs. The on-board 120-277Vac input driver offers 0-10V dimming to 1% and up to 120 lm/W. Available with many of the same great features as the T-BAR LED, the X-Series is perfect for applications targeting stringent energy codes.



| Product Name              | LED/K Color                  | Light Output                                     | Grid Size   | Grid Type                               | Optic                             | Mounting      | Color      | Driver                      | Options  |
|---------------------------|------------------------------|--|-------------|---|-----------------------------------|---------------|------------|-----------------------------|--|
| TBLX = T-BAR LED X-SERIES | HW = 3000K                   | LO = Low   | 2 = 2 ft    | 24 = 15/16"                             | D = Diffusing Lens                | U = Universal | W = White  | UNV = 120-277 0-10V dimming | CP = Chicago Plenum                                  |
|                           | MW = 3500K                   | MO = Medium                                      | 4 = 4 ft    | 15 = 9/16"                              | DW = Diffused White Lens          | A = Armstrong | B = Black  | POE = Power over Ethernet** |  |
|                           | MN = 4000K                   | HO = High  | 5 = 5 ft    | 15B = 9/16" Bolt Slot                   | B = Block Clear Diffusing Lens    | C = Custom    | C = Custom |                             |  |
|                           | HN = 4500K                   |  | 4L          | 15H = 9/16" High Efficiency*            | B2 = Block Frosted Diffusing Lens |               |            |                             |  |
|                           | CN = 5000K                   |  | Metric      | 15HB = 9/16" High Efficiency Bolt Slot* |                                   |               |            |                             |  |
|                           | 90 CRI available on request. | Custom lumen outputs available, consult factory. | 6 = 60 cm   | 24C = 15/16" Partially Concealed Grid   |                                   |               |            |                             | Optional EM Battery Kit available (sold separately). |
|                           |                              |  | 12 = 120 cm |   |                                   |               |            |                             |  |
|                           |                              |  | 12L         |   |                                   |               |            |                             |  |

www.jlc-tech.com/patents

\*15H/15HB model cannot be used for geometric shapes.

\*\*For PoE, consult factory

Diffusing Lens (D)

**NOTES:**

T-BAR LED X-SERIES is a 120-277VAC input, high efficiency LED fixture designed specifically for integration into suspension ceiling systems by directly replacing cross tees. On-board junction box includes driver and 0-10V dimming connection.

**APPLICATIONS:**

Executive, Medical, Health, Educational, Retail, Hotels, Airport, Hospitality and any open space areas that require a unique and energy efficient architectural lighting design.

**MOUNTING:**

Universal mounting brackets are for easy installation to standard 15/16" or 9/16" T-Bars of most manufacturers' 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. Compatible with Tegular, Lay-in, and Partially Concealed tiles.

**MATERIALS:**

Anodized and painted aluminum extruded body, steel junction box and mounting clips, PC end caps, high transmitting acrylic PMMA lens.

**ELECTRIC:**

Universal input voltage of 120-277Vac. Junction box installed on fixture with integral driver for connection to line voltage and 0-10V dimming system, (dimnable to 1%). For EM Battery Kit order separately.

**WARRANTY:**

5 years limited warranty. For complete warranty terms, please visit our website.

**LISTINGS:**

ETL/cETLus CE RoHS. Indoor use only. IC rated. IP 40.

Diffused White Lens (DW)



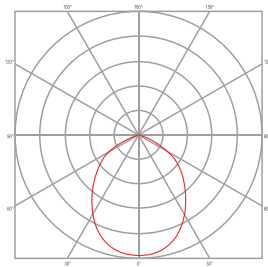
Block Clear Diffusing Lens (B)



Block Frosted Diffusing Lens (B2)

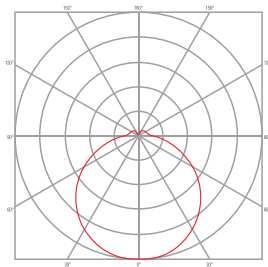


Photometrics CRI = &gt;82

L<sub>80</sub> > 60K hrs15/16" & 9/16" High Efficiency  
Diffusing Lens 4000K

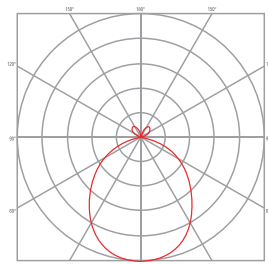
## Diffusing Lens – Grid Type: 24 and 15H/15HB

| Code Selection     | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|--------------------|----------------|------------------|-----------------|
| <b>LO</b> = Low    | 389            | 3.3              | 118             |
| <b>MO</b> = Medium | 595            | 5.2              | 114             |
| <b>HO</b> = High   | 1038           | 9.5              | 109             |

15/16" & 9/16" High Efficiency  
Diffused White Lens 4000K

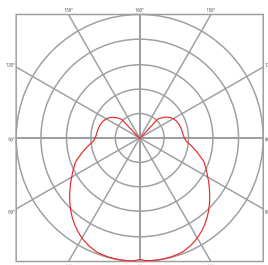
## Diffused White Lens – Grid Type: 24 and 15H/15HB

| Code Selection     | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|--------------------|----------------|------------------|-----------------|
| <b>LO</b> = Low    | 337            | 3.3              | 102             |
| <b>MO</b> = Medium | 515            | 5.2              | 99              |
| <b>HO</b> = High   | 900            | 9.5              | 95              |

15/16" & 9/16" High Efficiency  
Block Clear Diffusing Lens 4000K

## Block Clear Diffusing Lens – Grid Type: 24 and 15H/15HB

| Code Selection     | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|--------------------|----------------|------------------|-----------------|
| <b>LO</b> = Low    | 370            | 3.3              | 112             |
| <b>MO</b> = Medium | 564            | 5.2              | 109             |
| <b>HO</b> = High   | 995            | 9.5              | 105             |

15/16" & 9/16" High Efficiency  
Block Frosted Diffusing Lens 4000K

## Block Frosted Diffusing Lens – Grid Type: 24 and 15H/15HB

| Code Selection     | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|--------------------|----------------|------------------|-----------------|
| <b>LO</b> = Low    | 389            | 3.3              | 118             |
| <b>MO</b> = Medium | 595            | 5.2              | 114             |
| <b>HO</b> = High   | 1038           | 9.5              | 109             |

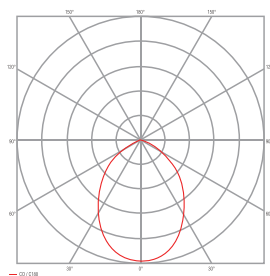
*\*Complete photometric info and IES files are available for download at [www.jlc-tech.com](http://www.jlc-tech.com)*

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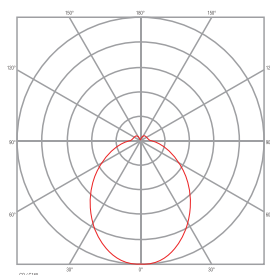
Photometrics CRI = &gt;82

L<sub>80</sub> > 60K hrs

9/16" Diffusing Lens 4000K

## Diffusing Lens – Grid Type: 15/15B

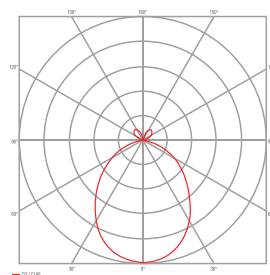
| Code Selection     | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|--------------------|----------------|------------------|-----------------|
| <b>LO</b> = Low    | 282            | 3.3              | 85              |
| <b>MO</b> = Medium | 440            | 5.2              | 84              |
| <b>HO</b> = High   | 806            | 9.5              | 85              |



9/16" Diffused White Lens 4000K

## Diffused White Lens – Grid Type: 15/15B

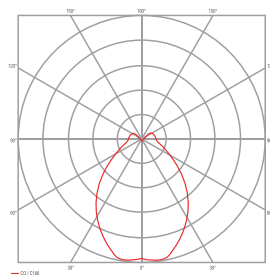
| Code Selection     | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|--------------------|----------------|------------------|-----------------|
| <b>LO</b> = Low    | 196            | 3.3              | 60              |
| <b>MO</b> = Medium | 311            | 5.2              | 60              |
| <b>HO</b> = High   | 560            | 9.5              | 59              |



9/16" Block Clear Diffusing Lens 4000K

## Block Clear Diffusing Lens – Grid Type: 15/15B

| Code Selection     | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|--------------------|----------------|------------------|-----------------|
| <b>LO</b> = Low    | 274            | 3.3              | 83              |
| <b>MO</b> = Medium | 436            | 5.2              | 84              |
| <b>HO</b> = High   | 797            | 9.5              | 84              |



9/16" Block Frosted Diffusing Lens 4000K

## Block Frosted Diffusing Lens – Grid Type: 15/15B

| Code Selection     | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|--------------------|----------------|------------------|-----------------|
| <b>LO</b> = Low    | 280            | 3.3              | 85              |
| <b>MO</b> = Medium | 445            | 5.2              | 86              |
| <b>HO</b> = High   | 813            | 9.5              | 86              |

*\*Complete photometric info and IES files are available for download at [www.jlc-tech.com](http://www.jlc-tech.com)*

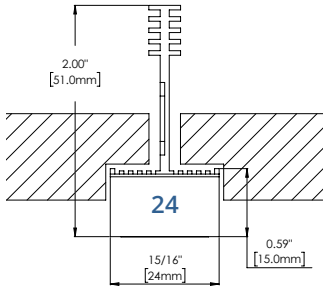
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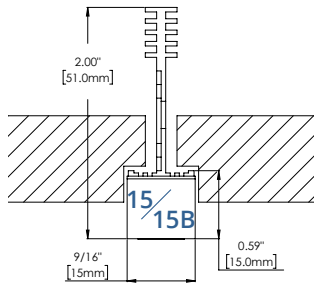
MADE IN **USA**

**JLC-Tech**

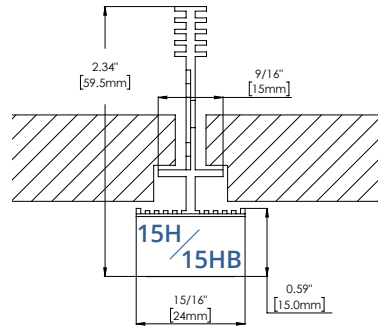
## Profile Dimensions (Compatible with Tegular, Lay-in and Partially Concealed tiles)



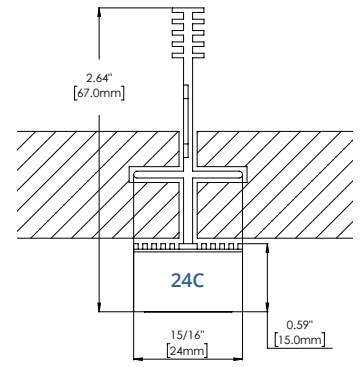
15/16" Diffusing Lens  
TBLX-XX-XX-X-24-D-X-X-UNV



9/16" Diffusing Lens  
TBLX-XX-XX-X-15/15B-D-X-X-UNV

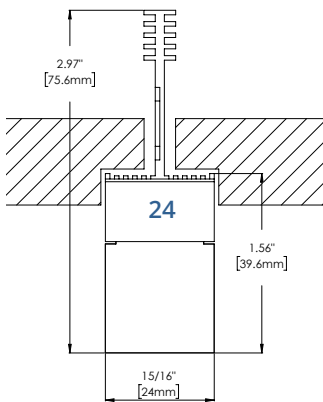


9/16" High Efficiency Diffusing Lens  
TBLX-XX-XX-X-15H/15HB-D-X-X-UNV

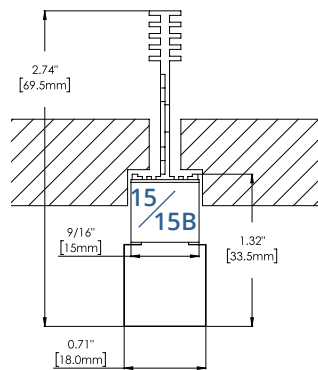


15/16" Concealed Diffusing Lens  
TBLX-XX-XX-X-24C-D-X-X-UNV

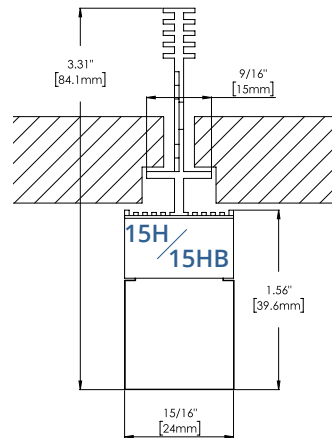
Clear block and frosted block variable heights 1/2" – 4" available, consult factory.



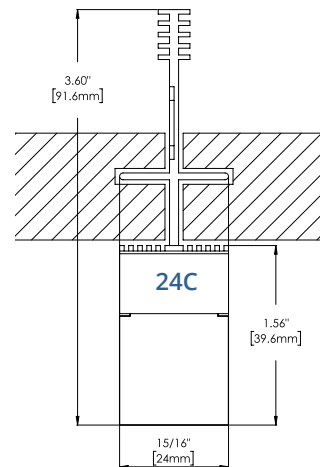
15/16" Block Lens  
TBLX-XX-XX-X-24-B/B2-X-X-UNV



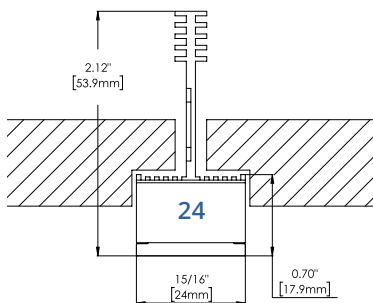
9/16" Block Lens  
TBLX-XX-XX-X-15/15B-D-X-X-UNV



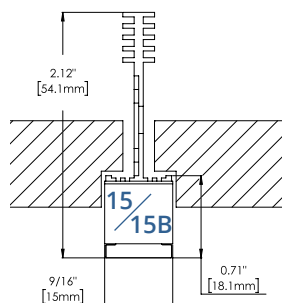
9/16" High Efficiency Block Lens  
TBLX-XX-XX-X-15H/15HB-B/B2-X-X-UNV



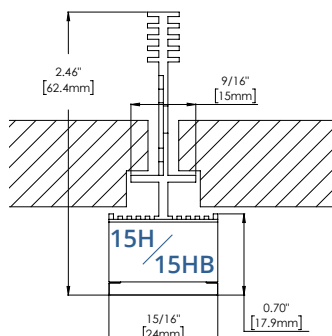
15/16" Concealed Block Lens  
TBLX-XX-XX-X-24C-B/B2-X-X-UNV



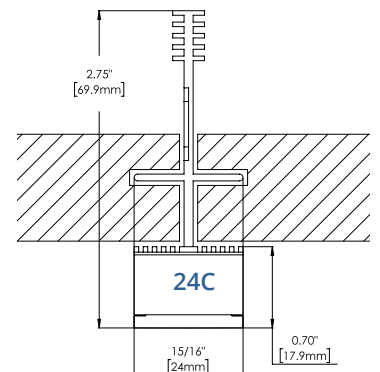
15/16" Diffused White Lens  
TBLX-XX-XX-X-24-DW-X-X-UNV



9/16" Diffused White Lens  
TBLX-XX-XX-X-15/15B-D-X-X-UNV

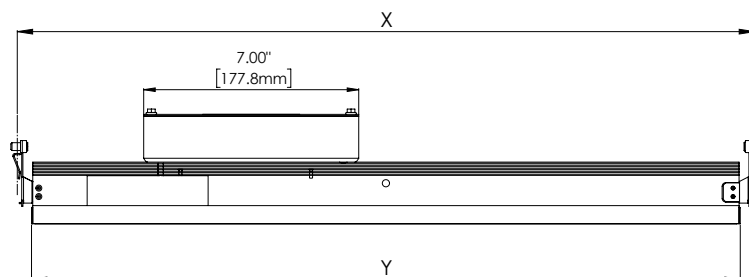
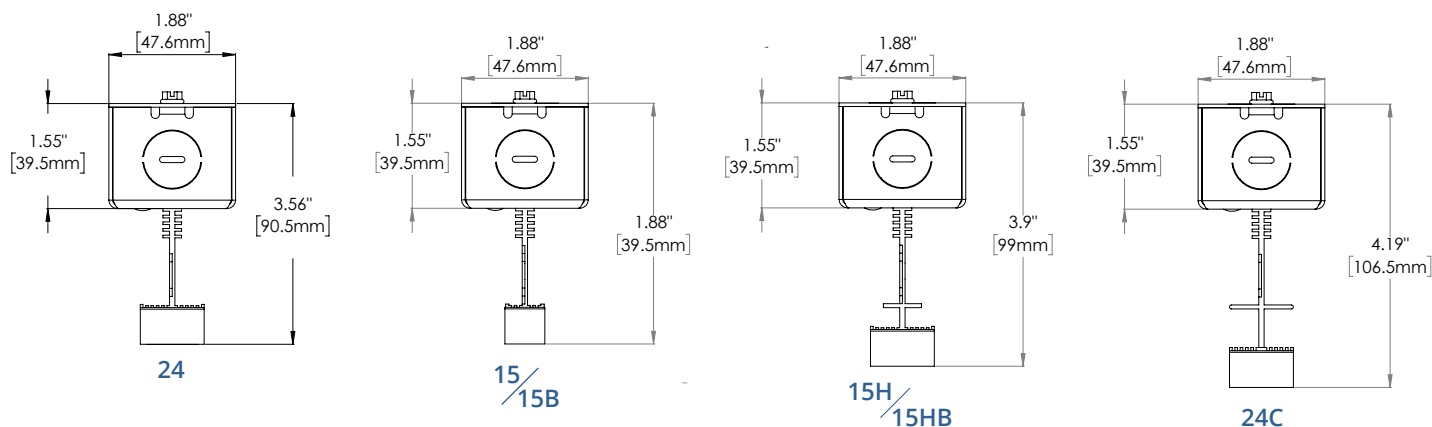


9/16" High Efficiency  
Diffused White Lens  
TBLX-XX-XX-X-15H/15HB-DW-X-X-UNV



15/16" Concealed Diffused White Lens  
TBLX-XX-XX-X-24C-DW-X-X-UNV

## Length Dimensions



| Size    | Grid Type   | X   | Y   |
|---------|-------------|-----|-----|
| 2 = 2ft | 24 = 15/16" | 24" | 23" |
| 4 = 4ft | 24 = 15/16" | 48" | 47" |
| 5 = 5ft | 24 = 15/16" | 60" | 59" |
| 4L      | 24 = 15/16" | 48" | 24" |

| Size    | Grid Type      | X   | Y     |
|---------|----------------|-----|-------|
| 2 = 2ft | 15/15B = 9/16" | 24" | 23.4" |
| 4 = 4ft | 15/15B = 9/16" | 48" | 47.4" |
| 5 = 5ft | 15/15B = 9/16" | 60" | 59.4" |
| 4L      | 15/15B = 9/16" | 48" | 24"   |

| Size    | Grid Type        | X   | Y     |
|---------|------------------|-----|-------|
| 2 = 2ft | 15H/15HB = 9/16" | 24" | 23.4" |
| 4 = 4ft | 15H/15HB = 9/16" | 48" | 47.4" |
| 5 = 5ft | 15H/15HB = 9/16" | 60" | 59.4" |

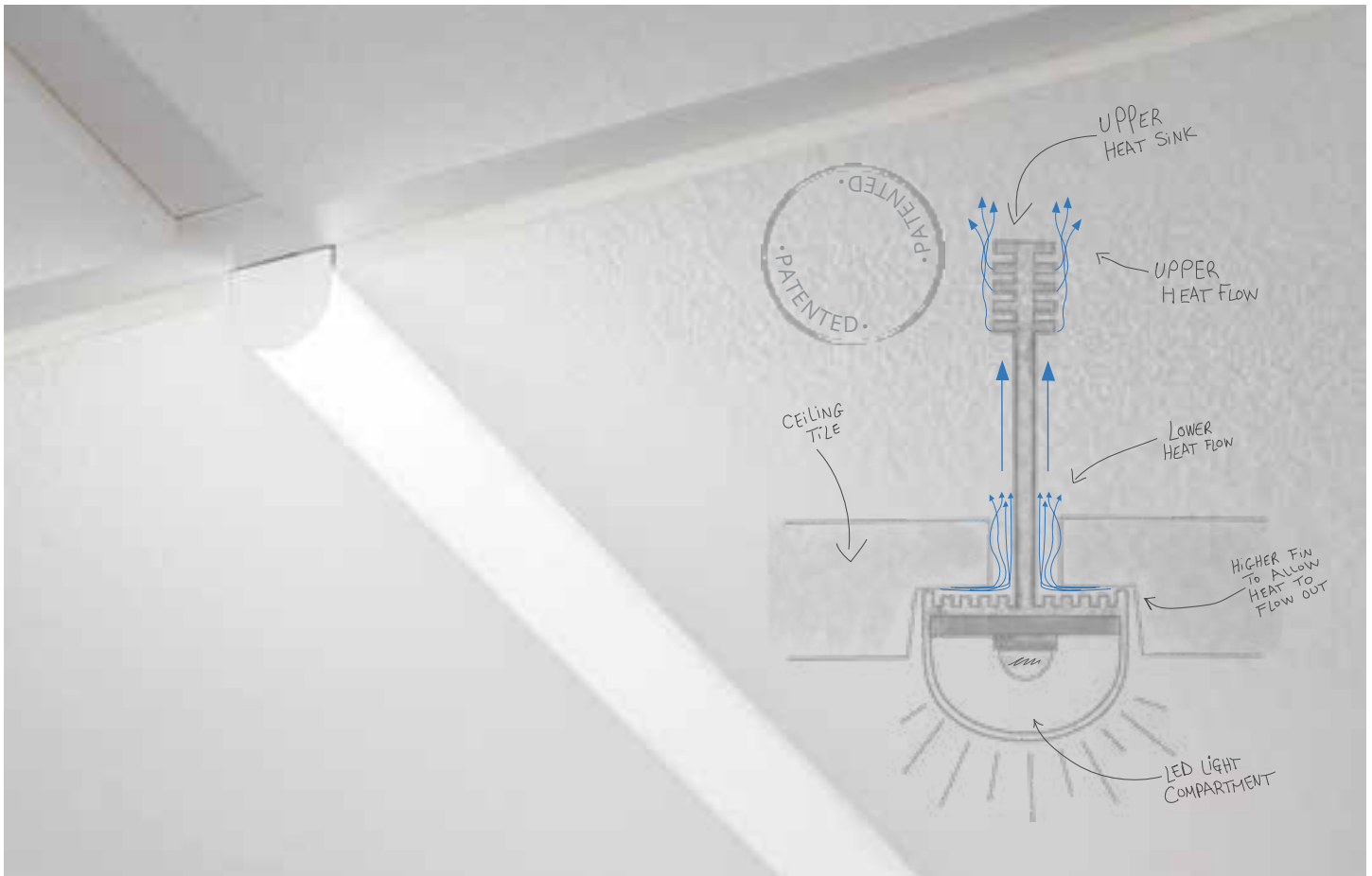
| Size    | Grid Type    | X   | Y     |
|---------|--------------|-----|-------|
| 2 = 2ft | 24C = 15/16" | 24" | 23.7" |
| 4 = 4ft | 24C = 15/16" | 48" | 47.8" |



A modern office interior featuring a white grid ceiling with recessed linear LED lights. The room has large windows with horizontal blinds, a white desk with a black chair, and a white partition wall. A framed abstract painting is visible on the wall.

# T3AR ECO<sup>®</sup>

*A cost-effective solution ideal for contractor design-build projects needing quick delivery and high efficiency performance.*



## T-BAR ECO<sup>®</sup> by JLC • tech



JLC-Tech, a pioneer for architecturally integrated LED lighting solutions, strives to offer the most technologically advanced options when it comes to lighting your next project.

T-BAR ECO is designed to optimize energy efficiency, while also leveraging JLC-Tech's patented technology of directly replacing the cross members in a suspended ceiling. Available in a typical line voltage model, with on-board 120-277VAC driver and 0-10V dimming, as well as a low voltage 24VDC option with remotely installed 0-10V dimming driver. Both models offer square or round extruded lens options, and have proprietary mounting clips that make installation simple. Ideal for a wide range of both retrofit and new construction applications, the T-BAR ECO offers superior performance with a greater return on investment, while also reducing building materials and maintenance.

JLC-Tech – "It takes a genius to make it simple."

MADE IN **USA**

[www.jlc-tech.com/patents](http://www.jlc-tech.com/patents)

## Why T-BAR ECO?

The T-BAR ECO is a standard commercial grade product offering the same key benefits and high-end aesthetics that are present with the T-BAR LED® architectural line. With a more basic feature set, but same quality engineering standards, the T-BAR ECO is a cost-effective solution ideal for contractor design-build projects needing quick delivery and high efficiency performance.



### Key Benefits



#### NO PLENUM OCCUPANCY

- Low profile lighting replaces the grid (equals height of a cross tee)
- Remote DC power supplies leaves plenum virtually unoccupied
- No competition for space with other ceiling utilities



#### REDUCE AND SAVE

- Installation is literally a snap! Minimal-to-no-tools required
- No field modification of grid or tiles required
- Up to 50% savings in labor and materials costs



#### IMPROVED CEILING PERFORMANCE

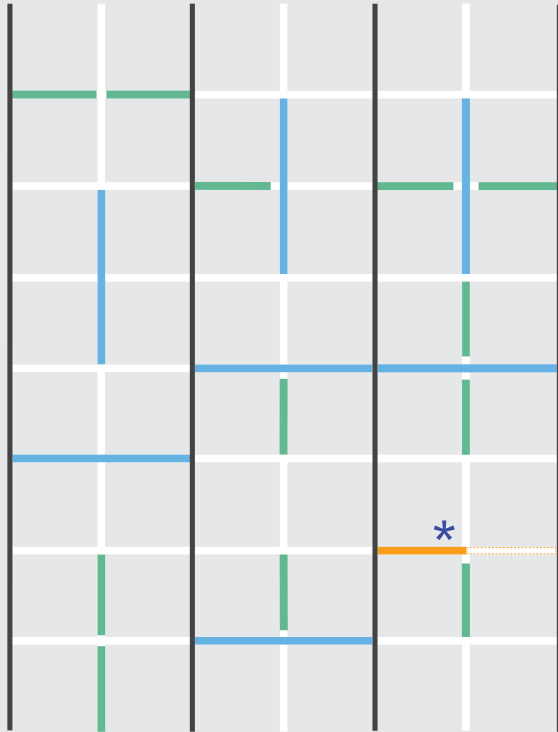
- Lights occupy the grid only, optimizing the ceiling's ability to enhance occupant well-being
- No interrupted tiles means maximizing tile's acoustical qualities
- Simplifies the disinfecting and cleaning of ceiling surfaces
- Uniform ceiling surface equals improved light reflectance



#### MAXIMIZED VERSATILITY

- Modular lighting system can be placed in the ceiling wherever light is needed
- Simple to relocate fixtures in flexible work space designs
- Remote low voltage power supplies can be independently controlled for up to 12 linear feet

T-BAR ECO can be installed in many configurations by replacing any of the cross tees between the main runners of the grid ceiling assembly.



4' T-BAR ECO

2' T-BAR ECO

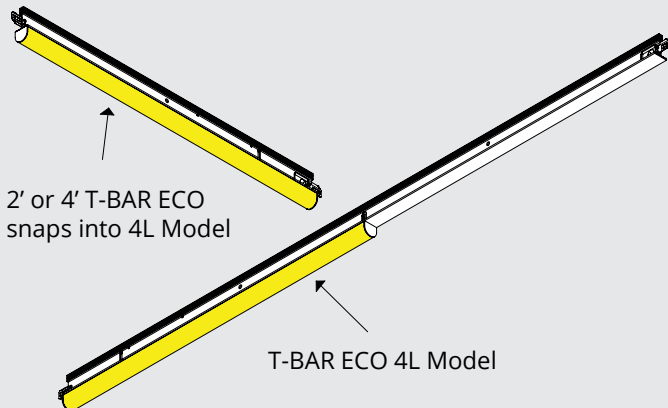
4L® Model T-BAR ECO

Possible positions for T-BAR ECO light modules

One-piece main runner cannot be replaced by light modules

## \* 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.



## Mounting Configurations



Weigand Associates, Inc. – Germantown, MD

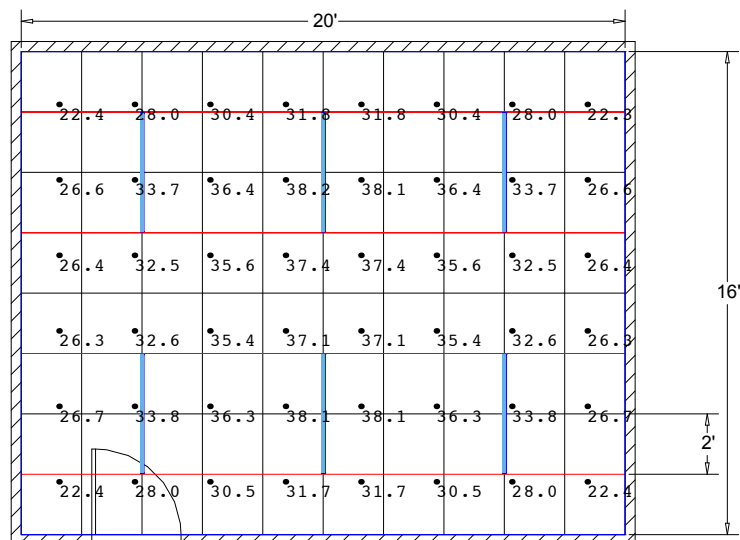


90° configurations are possible by using our 4L® Model



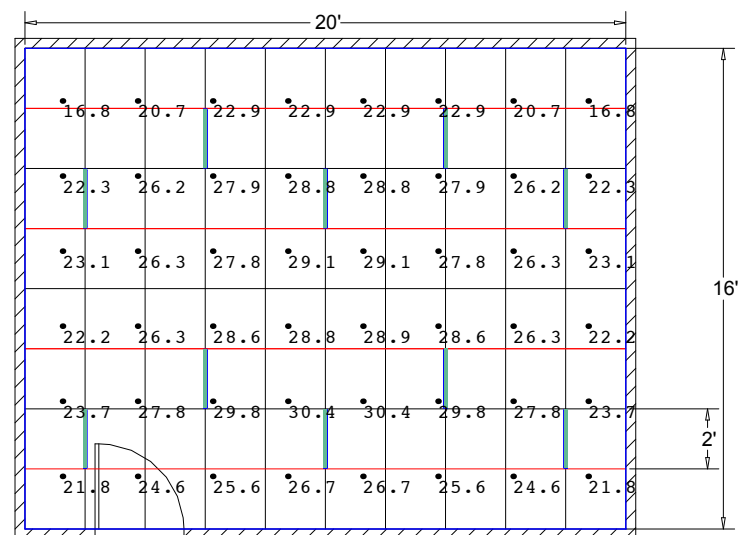
Room Dimension: **16x20 feet (320 S.F.)**  
 Ceiling Height: **9 feet**  
 Average foot candle achieved at desk level: **31.59**  
 Power Density: **0.33 W/sq. ft.**  
 Quantity of product: **6 pcs. TBECOH-MN-4-24-DW-X-UNV**

## Symmetric configuration



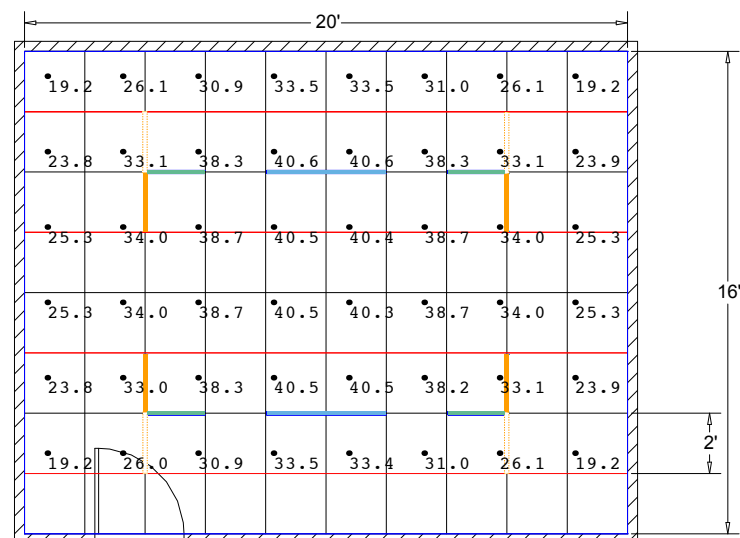
Room Dimension: **16x20 feet (320 S.F.)**  
 Ceiling Height: **9 feet**  
 Average foot candle achieved at desk level: **25.46**  
 Power Density: **0.29 W/sq. ft.**  
 Quantity of product: **10 pcs. TBECOH-MN-2-24-DW-X-UNV**

## Staggered configuration



Room Dimension: **16x20 feet (320 S.F.)**  
 Ceiling Height: **9 feet**  
 Average foot candle achieved at desk level: **31.99**  
 Power Density: **0.34 W/sq. ft.**  
 Quantity of product: **4 pcs. TBECOH-MN-2-24-DW-X-UNV**  
**2 pcs. TBECOH-MN-4-24-DW-X-UNV**  
**4 pcs. TBECOH-MN-4L-24-DW-X-UNV**

## 4L™ Model configuration

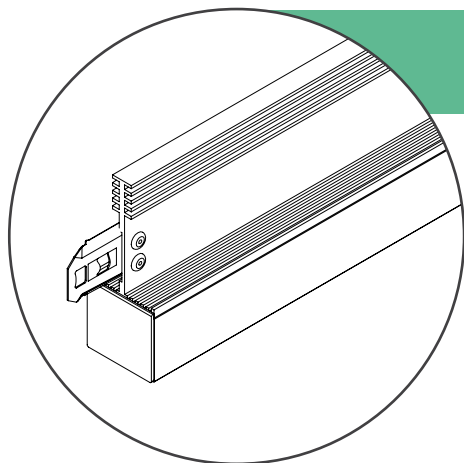




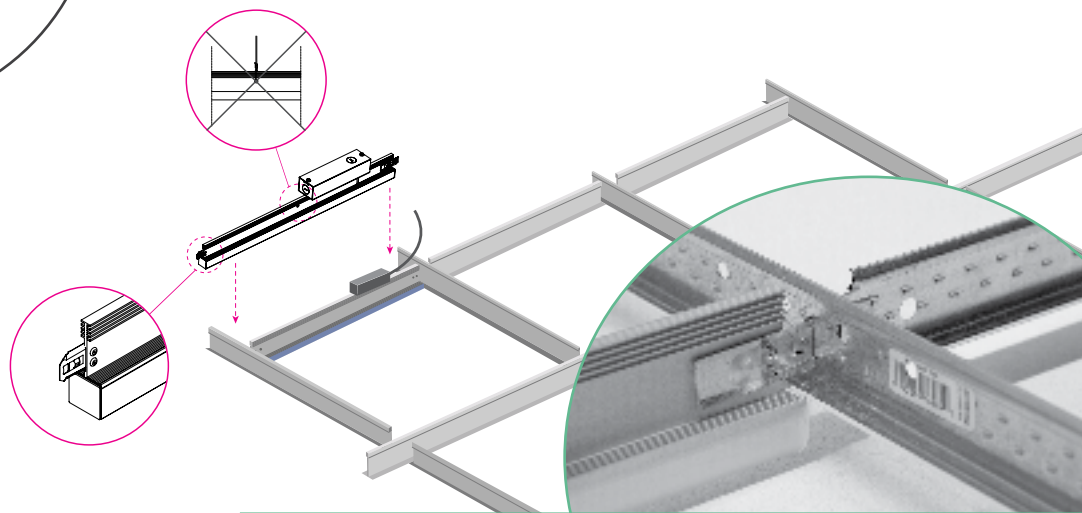
# Two Easy Installations for Suspended Ceiling Systems



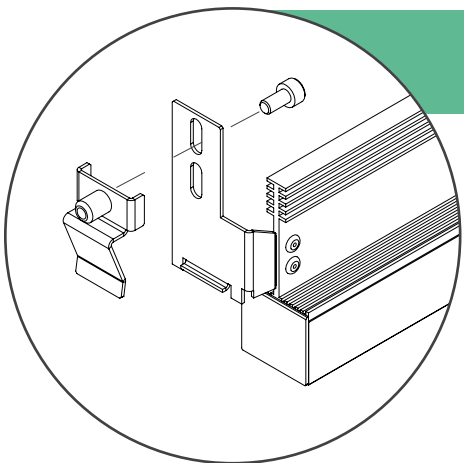
## Compatible Clip



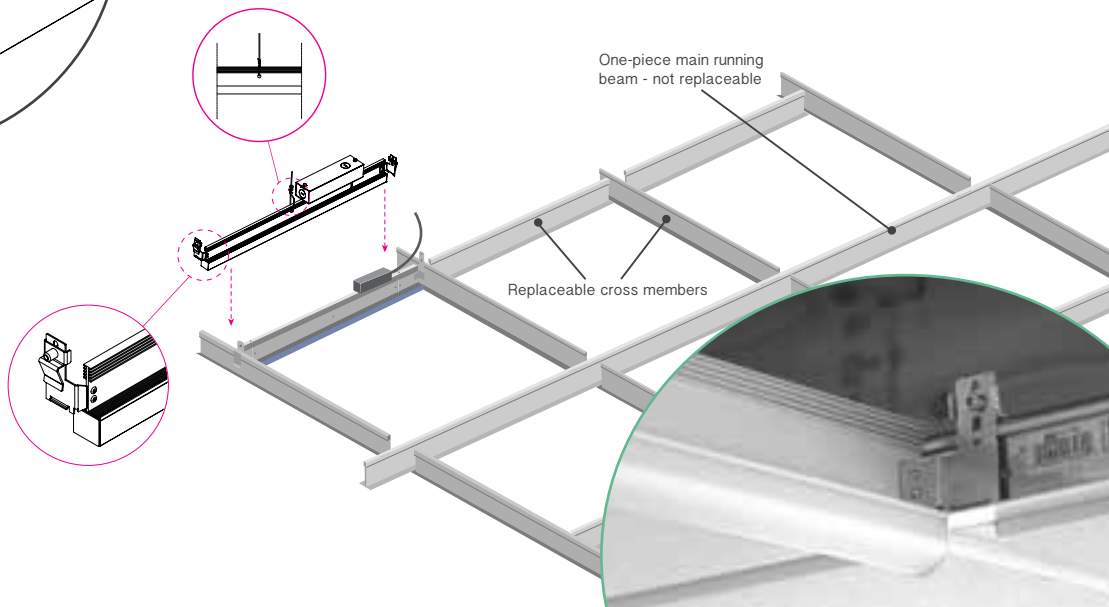
Specifically designed by Armstrong® Ceiling Solutions for JLC-Tech, the X-LED clip is mounted at each end for easy installation into Armstrong 15/16" ceiling suspension systems, allowing the fixture to become a part of the certified ceiling assembly, eliminating the need for support wires. T-BAR ECO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



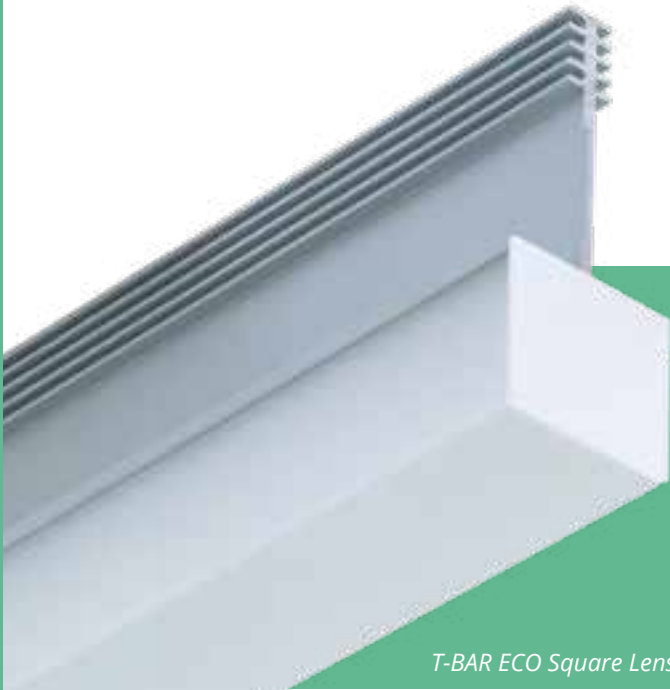
## Universally Compatible Clip



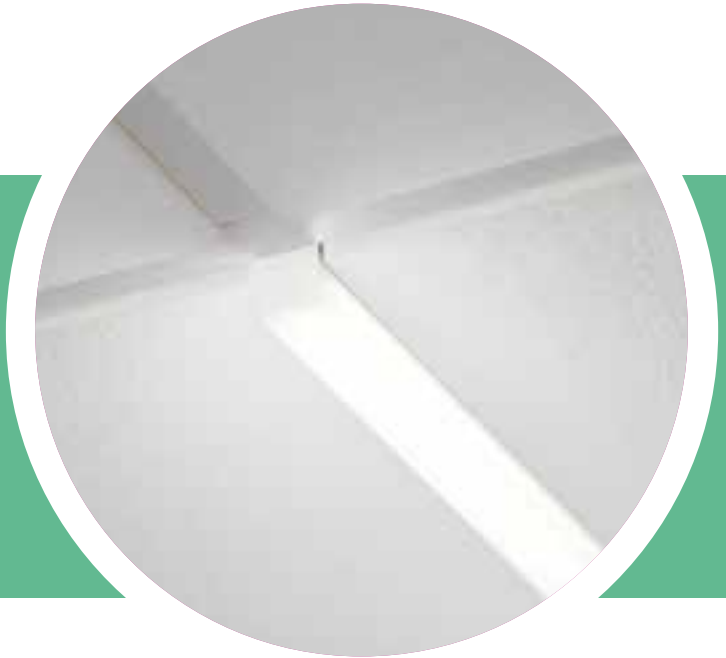
Specially designed brackets are mounted at each end of the fixture for easy installation into most manufacturers' standard 15/16" ceiling suspension systems. T-BAR ECO replaces selected cross tees of the grid ceiling suspension system where light is desired. (See Universal Clip installation instruction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



## Two Optic Options

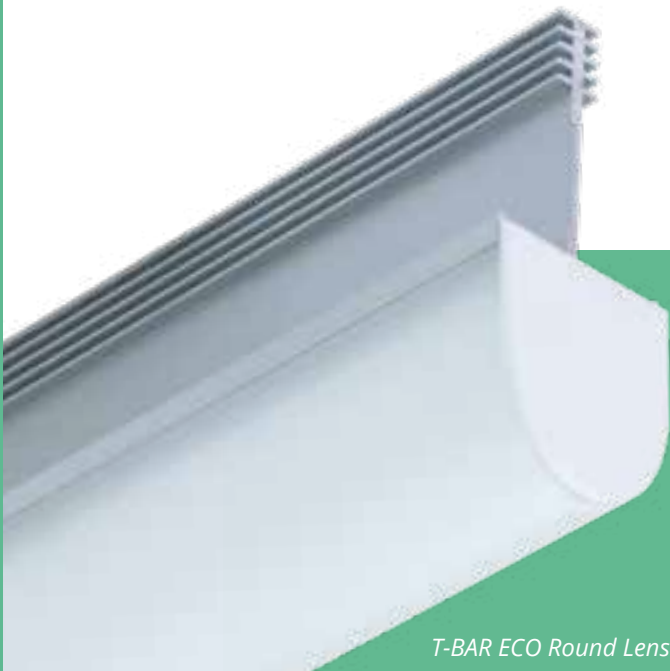


*T-BAR ECO Square Lens*

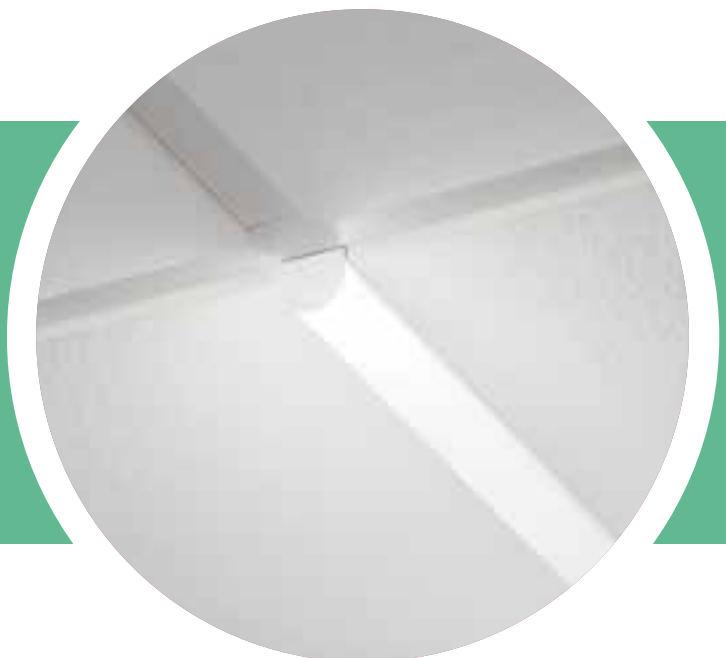


### T-BAR ECO Square Lens & Round Lens

T-BAR ECO and T-BAR ECO DC are both available with either a square or round lens form factor, for different aesthetical options in a design. The lens material is made from a high quality extruded PMMA that has been precisely balanced with a milky white finish that hides any LED imaging while maintaining high light transmission for optimal efficiency.



*T-BAR ECO Round Lens*



# T-BAR ECO<sup>®</sup>

## Line Voltage

The T-BAR ECO Line Voltage model offers a more typical approach to wiring with a junction box containing integral driver located on the back of each fixture. The on board driver features a universal 120-277VAC input and 0-10V dimming, and the junction box has multiple knock-outs for branch circuit connections and continuous row mounting. This power option allows for optimized electrical efficiency providing for exceptionally high lumens per watt.



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| Product Name                             | LED/K Color   | Grid Size   | Grid Type  | Optic  | Mounting Clips                               | Driver   | Options   |
|--|---|---|--|--|--|--|---|
| <b>TBECOH</b> = T-BAR ECO<br>High Output | <b>HW</b> = 3000K<br><b>MW</b> = 3500K<br><b>MN</b> = 4000K | <b>2</b> = 2 ft<br><b>4</b> = 4 ft<br><b>4L</b>                       | <b>24</b> = 15/16"<br><b>15H</b> = 9/16"<br>High Efficiency* | <b>DW</b> = Diffused White Round<br><b>DWS</b> = Diffused White Square | <b>U</b> = Universal<br><b>A</b> = Armstrong | <b>UNV</b> = Universal<br>120-277V<br>0-10V dimming<br><b>POE</b> = Power<br>over Ethernet** | <b>CP</b> = Chicago Plenum<br><br>Optional EM Battery Kit<br>available (sold separately). |
| <b>TBECOL</b> = T-BAR ECO<br>Low Output  | <b>CN</b> = 5000K<br><br>90 CRI available,<br>on request.   | <b>Metric</b><br><b>6</b> = 60 cm<br><b>12</b> = 120 cm<br><b>12L</b> | <b>15HB</b> = 9/16"<br>High Efficiency<br>Bolt Slot*         |  |  |  |   |
| www.jlc-tech.com/patents                 |   |   |  | *15H/15HB Model cannot be used for geometric shapes                    |  | **For PoE, consult factory   |   |

*Diffused White Round Lens (DW)**Diffused White Square Lens (DWS)***NOTES:**

T-BAR ECO is a high efficiency LED fixture with integral driver, accepting universal voltage input and 0-10V dimming, offering uniform and diffuse light. On-board junction box includes driver and 0-10V dimming connection.

**APPLICATIONS:**

Executive, Medical, Health, Educational, Retail, Hotels, Airport, Hospitality and any open space areas that require a unique and elegant architectural lighting design.

**MOUNTING:**

Universal mounting brackets for easy installation to standard 15/16" T-Bars of most manufacturers' 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. Compatible with Tegular and Lay-in tiles.

**MATERIALS:**

Anodized aluminum extruded body, steel mounting clips, white PC end caps, high transmitting acrylic PMMA lens.

**ELECTRIC:**

Universal input voltage of 120V - 277VAC. Junction box installed on fixture with integral driver for connection to line voltage and 0-10V dimming system. For Battery Back-up kit order separately. PoE options available, consult factory.

**WARRANTY:**

5 years limited warranty. For complete warranty terms, please visit our website.

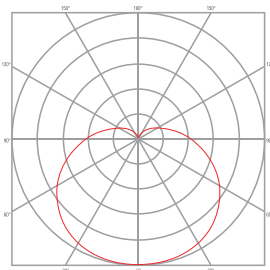
**LISTINGS:**

ETL/cETLus CE RoHS Indoor use only. IC Rated. IP 40.



Photometrics    CRI = >82

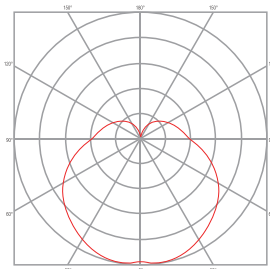
L<sub>80</sub> > 60K hrs



15/16" T-BAR ECO  
Round Lens 4000K

Diffused White Round Lens – Grid Type: 24

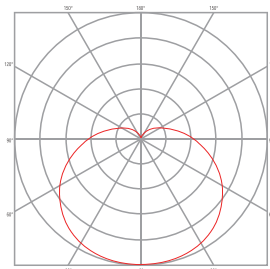
| Code Selection       | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|----------------------|----------------|------------------|-----------------|
| TBECOL = Low Output  | 474            | 3.3              | 144             |
| TBECOH = High Output | 664            | 4.7              | 141             |



15/16" T-BAR ECO  
Square Lens 4000K

Diffused White Square Lens – Grid Type: 24

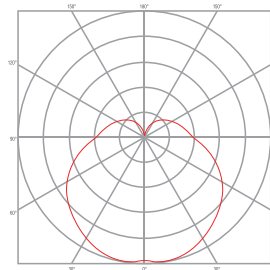
| Code Selection       | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|----------------------|----------------|------------------|-----------------|
| TBECOL = Low Output  | 481            | 3.3              | 145             |
| TBECOH = High Output | 681            | 4.7              | 142             |



9/16" High Efficiency  
T-BAR ECO Round Lens 4000K

Diffused White Round Lens – Grid Type: 15H/15HB

| Code Selection       | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|----------------------|----------------|------------------|-----------------|
| TBECOL = Low Output  | 474            | 3.3              | 144             |
| TBECOH = High Output | 664            | 4.7              | 141             |

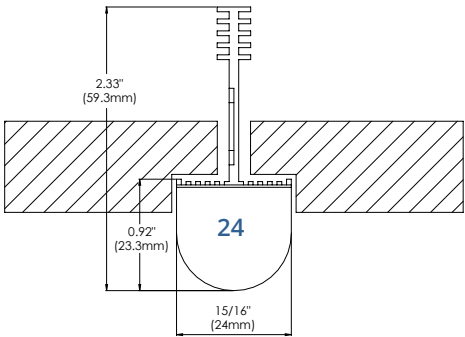


9/16" High Efficiency  
T-BAR ECO Square Lens 4000K

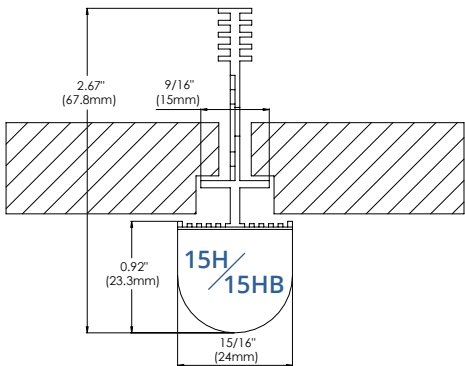
Diffused White Square Lens – Grid Type: 15H/15HB

| Code Selection       | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|----------------------|----------------|------------------|-----------------|
| TBECOL = Low Output  | 481            | 3.3              | 145             |
| TBECOH = High Output | 681            | 4.7              | 142             |

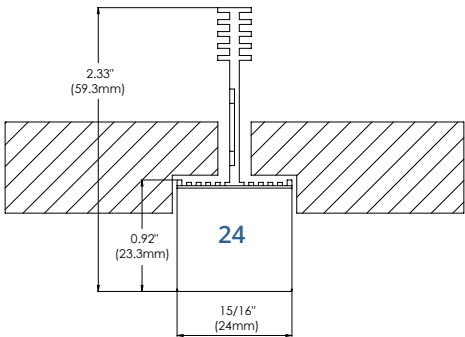
Profile Dimensions  
(Compatible with Tegular and Lay-in tiles)



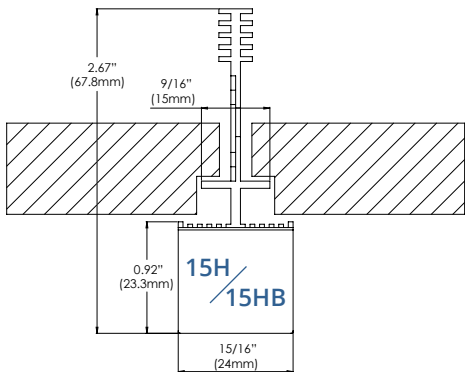
15/16" Diffuse White Round Lens  
TBECOX-XX-X-24-DW-X-X



9/16" High Efficiency Diffuse White Round Lens  
TBECOX-XX-X-15H/15HB-DW-X-X

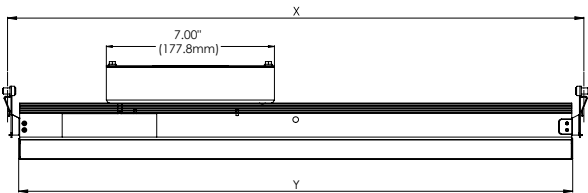
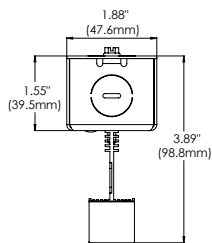


15/16" Diffuse White Square Lens  
TBECOX-XX-X-24-DWS-X-X



9/16" High Efficiency Diffuse White Square Lens  
TBECOX-XX-X-15H/15HB-DWS-X-X

Length Dimensions



| Size    | Grid Type   | X   | Y   |
|---------|-------------|-----|-----|
| 2 = 2ft | 24 = 15/16" | 24" | 23" |
| 4 = 4ft | 24 = 15/16" | 48" | 47" |
| 4L      | 24 = 15/16" | 48" | 24" |

| Size    | Grid Type        | X   | Y     |
|---------|------------------|-----|-------|
| 2 = 2ft | 15H/15HB = 9/16" | 24" | 23.4" |
| 4 = 4ft | 15H/15HB = 9/16" | 48" | 47.4" |
| 4L      | 15H/15HB = 9/16" | 48" | 24"   |



Weigand Associates, Inc. – Germantown, MD

# T-BAR ECO<sup>®</sup> DC

## Low Voltage

The T-BAR ECO DC model is a 24VDC low voltage light fixture that requires a remotely installed driver. Each fixture has a small junction box located on the back with low voltage wires inside to connect to a Class 2 remote power supply. The remote power supply has an integrated junction box and is rated for plenum installations, with a 120-277VAC input and 0-10VDC the 96W supply can power up to 12ft of T-BAR ECO DC product. Using safe, low voltage Class 2 wiring allows for a simple electrical installation, easy reconfiguration of fixtures for flexible use spaces, as well as the option to connect directly into DC powered micro-grid buildings.



Van Ness Building – Boston, MA  
Samuels & Associates



| Product Name           | LED/K Color  | Grid Size   | Grid Type   | Optic  | Mounting Clips                 | Options   |
|------------------------|--|---|---|--|--------------------------------|---|
| TBECODC = T-BAR ECO DC | HW = 3000K<br>MW = 3500K<br>MN = 4000K<br>CN = 5000K | 2 = 2 ft<br>4 = 4 ft<br>4L<br>Metric<br>6 = 60 cm<br>12 = 120 cm<br>12L | 24 = 15/16"<br>15H = 9/16"<br>High Efficiency*<br>15HB = 9/16"<br>High Efficiency<br>Bolt Slot* | DW = Diffused White Round<br>DWS = Diffused White Square | U = Universal<br>A = Armstrong | CP = Chicago Plenum<br><br><br><br><br><br><br><br>Optional EM<br>Battery/Driver<br>Kit available<br>(sold separately). |

www.jlc-tech.com/patents

\*15H and 15HB Models cannot be used for geometric shapes

Diffused White Round Lens (DW)



Diffused White Square Lens (DWS)

**NOTES:**

T-BAR ECO DC is a 24VDC low voltage LED fixture that replaces the cross tees in a grid ceiling, offering uniform and diffuse light. T-BAR ECO DC modules can be parallel connected up to 12 linear feet max per power supply. Remote power supply includes JB compartment for AC input direct wiring with metal conduit. Max distance from power supply to fixtures is 30 feet with 18 AWG wire. Longer distance achievable if using higher gauge wire. IP65 and Chicago Plenum optional ratings available.

\*Power supply ordered separately (refer to website).

**APPLICATIONS:**

Executive, Medical, Health, Educational, Retail, Hotels, Airport, Hospitality and any open space areas that require a unique and elegant architectural lighting design.

**MOUNTING:**

Universal mounting brackets for easy installation to standard 15/16" T-Bars of most manufacturers' 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. Compatible with Tegal and Lay-in tiles.

**MATERIALS:**

Anodized aluminum extruded body, steel mounting clips, white PC end caps, high transmitting acrylic PMMA lens.

**ELECTRIC:**

Fixtures consume 7W/ft. Power supply consumption not included. Input voltage 24VDC. Junction box installed on fixture for low voltage wiring connection to remote driver (sold separately). For Battery Back up/Driver Kit order separately.

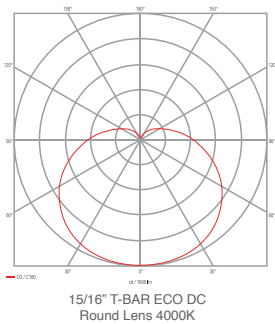
**WARRANTY:**

5 years limited warranty. For complete warranty terms, please visit our website.

**LISTINGS:**

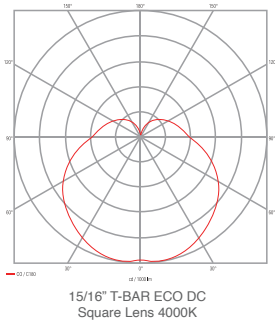
ETL/cETLus CE RoHS Indoor use only. IC Rated. IP 40.

Photometrics    CRI = >80     $L_{80} > 60K$  hrs



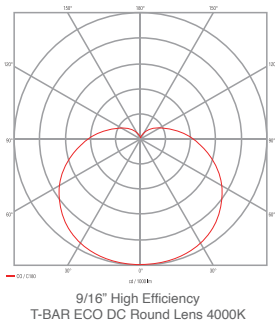
Diffused White Round Lens – Grid Type: 24

| Code Selection | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|----------------|----------------|------------------|-----------------|
| TBECODC        | 634            | 5.6              | 113             |



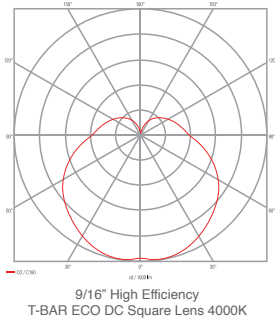
Diffused White Square Lens – Grid Type: 24

| Code Selection | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|----------------|----------------|------------------|-----------------|
| TBECODC        | 636            | 5.6              | 114             |



Diffused White Round Lens – Grid Type: 15H/15HB

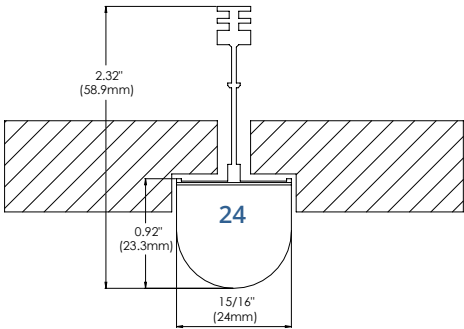
| Code Selection | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|----------------|----------------|------------------|-----------------|
| TBECODC        | 634            | 5.6              | 113             |



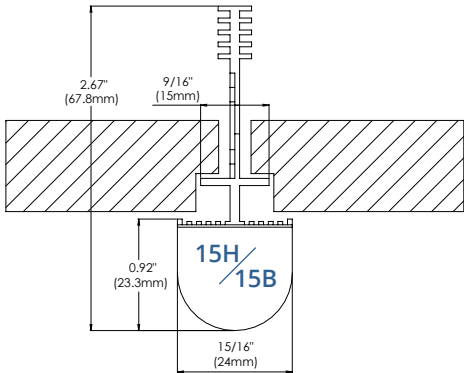
Diffused White Square Lens – Grid Type: 15H/15HB

| Code Selection | Output (lm/ft) | Power (watts/ft) | Efficacy (lm/W) |
|----------------|----------------|------------------|-----------------|
| TBECODC        | 636            | 5.6              | 114             |

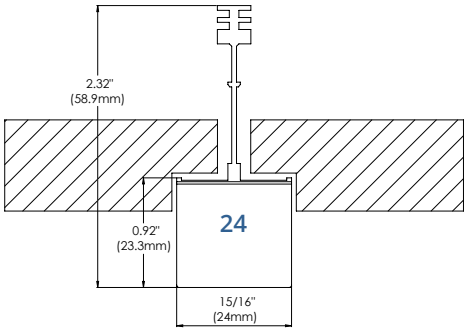
Profile Dimensions  
(Compatible with Tegular and Lay-in tiles)



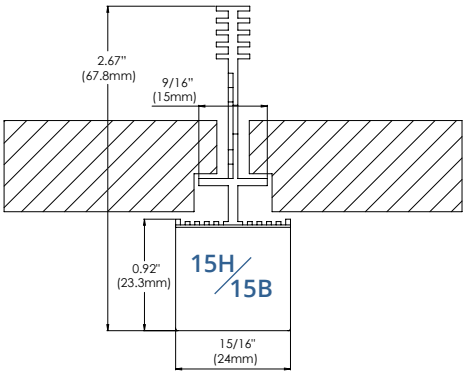
15/16" Diffuse White Round Lens  
TBECODC-XX-X-24-DW-X-X



9/16" High Efficiency Diffuse White Round Lens  
TBECODC-XX-X-15H/15HB-DW-X-X

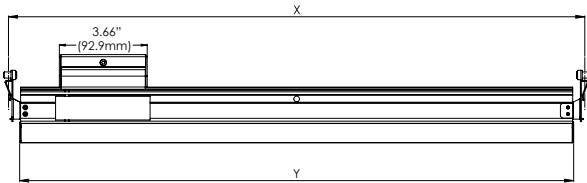
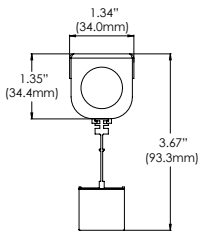


15/16" Diffuse White Square Lens  
TBECODC-XX-X-24-DWS-X-X



9/16" High Efficiency Diffuse White Square Lens  
TBECODC-XX-X-15H/15HB-DWS-X-X

Length Dimensions



| Size    | Grid Type   | X   | Y   |
|---------|-------------|-----|-----|
| 2 = 2ft | 24 = 15/16" | 24" | 23" |
| 4 = 4ft | 24 = 15/16" | 48" | 47" |
| 4L      | 24 = 15/16" | 48" | 24" |

| Size    | Grid Type        | X   | Y     |
|---------|------------------|-----|-------|
| 2 = 2ft | 15H/15HB = 9/16" | 24" | 23.4" |
| 4 = 4ft | 15H/15HB = 9/16" | 48" | 47.4" |
| 4L      | 15H/15HB = 9/16" | 48" | 24"   |

| Product Name                         | Driver Type   | Power                  | Wattage   | Voltage                         |
|--------------------------------------|---|------------------------|---|---------------------------------|
| <b>TBSL</b> = T-BAR LED Power Supply | <b>PS</b> = Non Dimmable<br><b>DIM</b> = 1% Dimmable 0-10 VDC | <b>HP</b> = High Power | <b>100W</b> = 96W<br><b>200W</b> = 192W<br><b>400W</b> = 384W | <b>UNV</b> = Universal 100-277V |

**WARRANTY: 5 years** Optional EM Battery Kit available (sold separately).

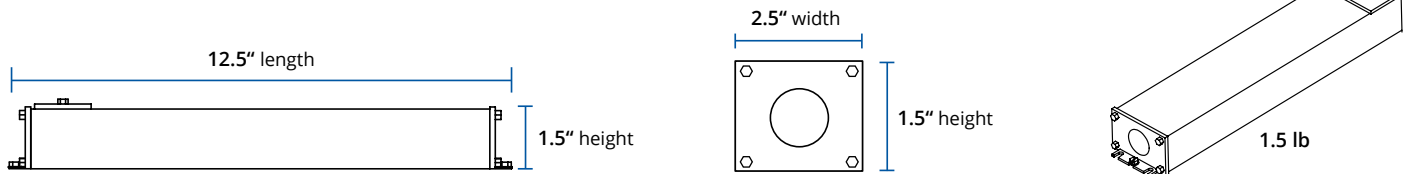


### 24VDC LED Driver 96W Power Supply

0-10 VDC dimmable and non dimmable

Light modules can be parallel connected up to 12 linear feet max per power supply. Power supply includes JB compartment for AC input direct wiring with metal conduit.

#### 96W Power Supply dimensions

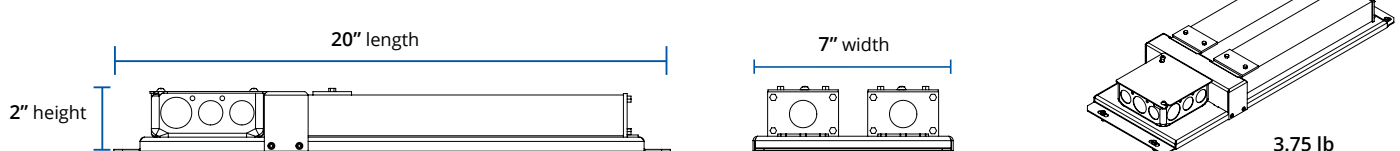


### 24VDC LED Driver 192W Power Supply

0-10 VDC dimmable and non dimmable

Light modules can be parallel connected up to 12 linear feet max per channel totaling 24 linear feet of illuminated product. Power supply includes JB compartment for AC input direct wiring with metal conduit and separate branch connections for control of each individual driver.

#### 192W Power Supply dimensions

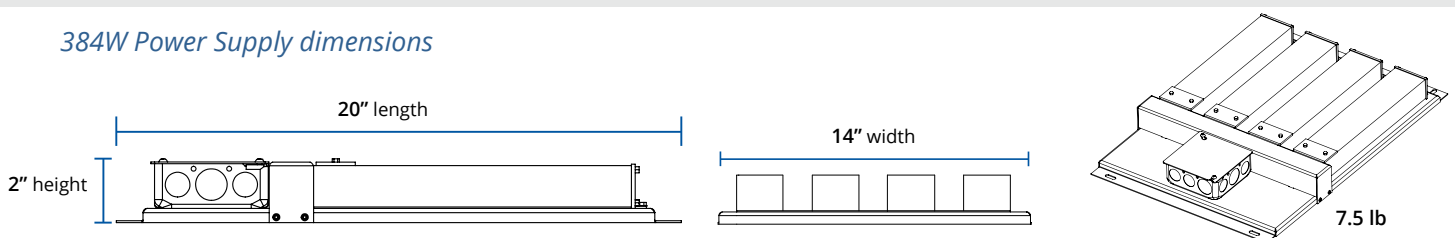


### 24VDC LED Driver 384W Power Supply

0-10 VDC dimmable and non dimmable

Light modules can be parallel connected up to 12 linear feet max per channel totaling 48 linear feet of illuminated product. Power kit includes JB for AC input direct wiring with metal conduit.

#### 384W Power Supply dimensions



JLC-Tech LLC | Pembroke, MA – USA | [info@jlc-tech.com](mailto:info@jlc-tech.com) | [www.jlc-tech.com](http://www.jlc-tech.com)

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Ohio Project – Columbus, OH  
*Styled Pretty, Inc.*



# TERALyte™

*An integrated lighting solution for data centers.*





TERALyte™ 1"



TERALyte™ 2"

## TERALyte™ by JLC • tech

TERALyte by JLC-Tech is a complete line of integrated lighting solutions for suspended ceilings used specifically in data center applications. In addition to physically supporting equipment, a suspended ceiling system plays a critical role in the performance of a data center by helping to maintain thermal containment zones. Lighting in these spaces not only needs to provide adequate light levels, but it should enhance the critical role of the ceiling, be simple to install, and energy efficient.

TERALyte offers integrated lighting options for the two types of suspended ceiling systems typically found in data centers including 15/16" heavy duty grid as well as extruded aluminum grid systems. The lights occupy the grid only by replacing the cross tees in a 15/16" system or by mounting directly to the extruded system, therefore optimizing the ceiling's role in high performance data centers.

MADE IN USA

[www.jlc-tech.com/patents](http://www.jlc-tech.com/patents)

# TERALyte™ for Data Centers

A ceiling system in a data center is one of the most important infrastructure components to keep the equipment operating at a high level. Plenum space is at a premium, the ceiling must properly support airflow management, and the system must be flexible and easy to install. TERALyte helps to support all of these important ceiling functions.

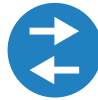


## Key Benefits



### NO PLENUM OCCUPANCY

- Low profile lighting replaces or mounts directly into the grid, leaving the space above the ceiling virtually unoccupied.
- No competition for space with other ceiling utilities.



### MAXIMIZED VERSATILITY

- Modular lighting system can be placed in the ceiling wherever light is needed.
- Simple to relocate fixtures to keep up with the ever-changing needs of a data center.



### IMPROVED CEILING PERFORMANCE

- Lights occupy the grid only, optimizing the ceiling's ability to maintain a high performing data center.
- No interrupted tiles means maximizing the ceiling's airflow management characteristics.
- Uniform ceiling surface for improved acoustics and light reflectance.



### REDUCE AND SAVE

- Installation requires minimal-to-no tools.
- Minimal-to-no field modification of the grid, and zero modification of tiles.
- Up to 50% savings in labor and materials costs compared to traditional troffers.
- Ultra-high efficiency to support the energy demands of data centers.

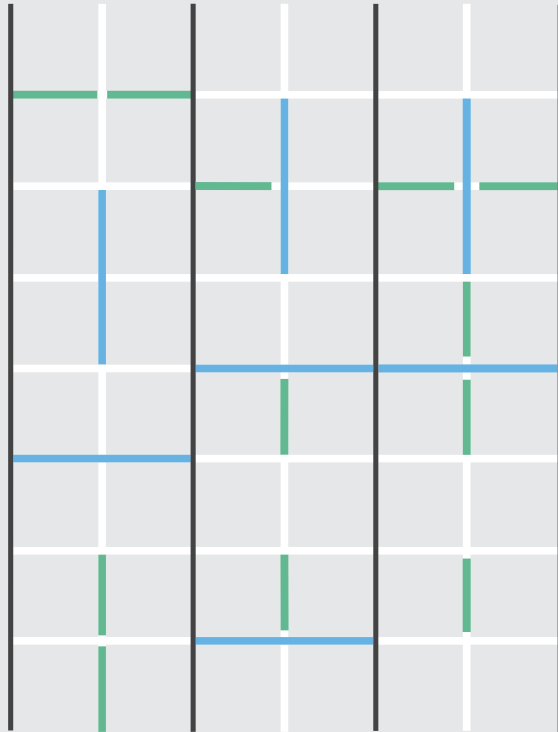
# TERALyte™ 1"

for  **Armstrong® Prelude XL Max**  
CEILING SOLUTIONS



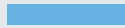
TERALyte 1" utilizes JLC-Tech's patented technology of directly replacing the cross tees in a suspended ceiling system. Designed specifically for the Armstrong® Prelude XL Max 15/16" suspension system, the TERALyte 1" installs just like a typical cross tee. The on-board driver features a universal 120-277VAC input and 0-10V dimming.


## Mounting Configurations




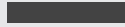
*TERALyte 1" becomes a part of the ceiling assembly.*

TERALyte 1" can be installed in many configurations by replacing any of the cross tees between the main runners of the grid ceiling assembly.

4' TERALyte 1" 

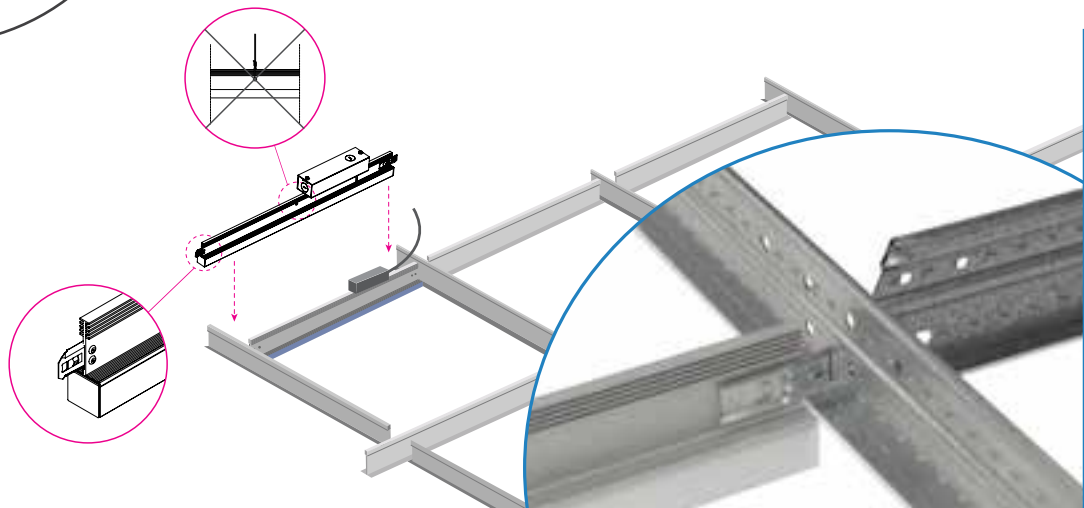
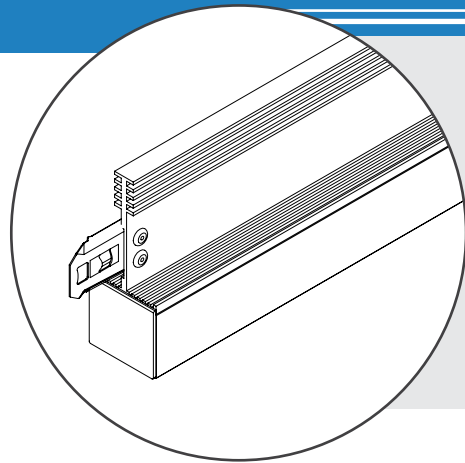
2' TERALyte 1" 

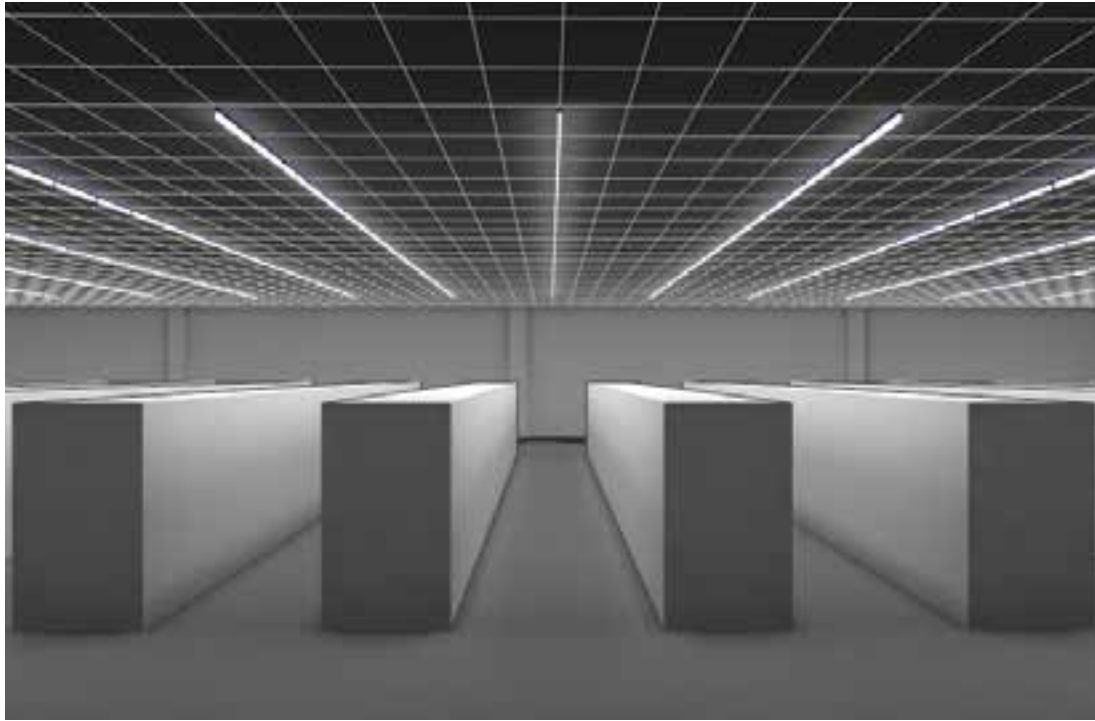
Possible positions for TERALyte 1" light modules 

One-piece main runner cannot be replaced by light modules 

## Installation

Specifically designed by Armstrong Ceiling Solutions for JLC-Tech, the X-LED clip is mounted at each end for easy installation into Armstrong® Prelude XL Max 15/16" ceiling suspension systems, allowing the fixture to become a part of the certified ceiling assembly, and eliminating the need for support wires. TERALyte 1" replaces selected cross tees of the grid suspension system where light is desired.





Quantity of product: **300 pcs. TRL1-MN-HO-4-24-DWS-X-W-UNV**

[illegible]

| Product Name       | LED/K Color   | Light Output   | Grid Size   | Grid Type         | Optic                             | Mounting Clips                      | Color                                 | Driver   |
|--------------------|---|--|---|-------------------|-----------------------------------|-------------------------------------|---------------------------------------|--|
| TRL1 = TERALyte 1" | <b>HW</b> = 3000K<br><b>MW</b> = 3500K<br><b>MN</b> = 4000K<br><b>CN</b> = 5000K<br><br>90 CRI available, on request. | <b>LO</b> = Low Output<br><b>MO</b> = Medium Output<br><b>HO</b> = High Output<br><br>Custom lumen outputs available, consult factory. | <b>2</b> = 2 ft<br><b>4</b> = 4 ft<br><b>4L</b><br>Metric<br><b>6</b> = 60 cm<br><b>12</b> = 120 cm<br><b>12L</b> | <b>24</b> = 15/16 | <b>DWS</b> = Diffuse White Square | <b>A</b> = Armstrong Prelude XL Max | <b>W</b> = White<br><b>C</b> = Custom | <b>UNV</b> = 120-277 Vac<br>0-10V dimming<br><b>POE</b> = Power over Ethernet*<br><br>Optional Battery Back Up Available (sold separately) |

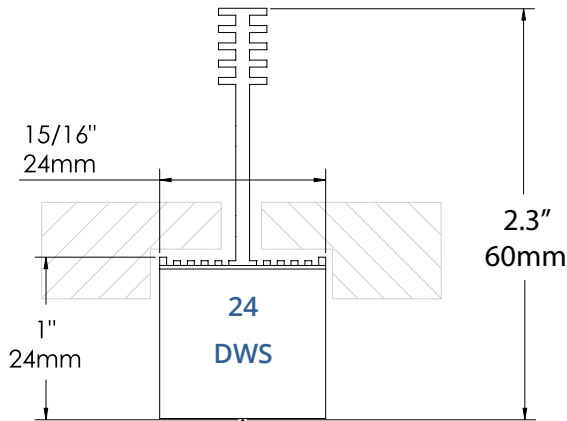
www.jlc-tech.com/patents

\*For PoE, consult factory

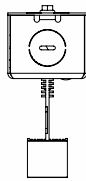
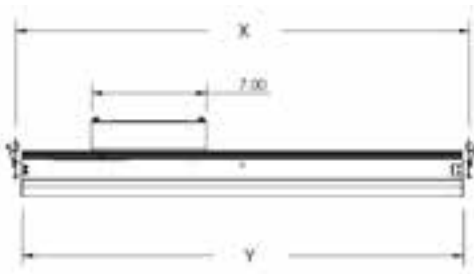


## Profile Dimensions

(Compatible with Tegular and Lay-in tiles)



## Length Dimensions



| Size    | Grid Type   | X   | Y   |
|---------|-------------|-----|-----|
| 2 = 2ft | 24 = 15/16" | 24" | 23" |
| 4 = 4ft | 24 = 15/16" | 48" | 47" |
| 4L      | 24 = 15/16" | 48" | 24" |

## NOTES:

TERALyte™ 1" is a high efficiency LED fixture designed specifically for integration into Armstrong's 15/16" Prelude XL Max suspension system. Installation simply just replaces cross tees in the grid ceiling using the Armstrong XLED clip.

## APPLICATIONS:

Data centers and other applications using Armstrong's 15/16" Prelude XL Max suspension system.

## MOUNTING:

Armstrong compatible mounting clips for installation with Armstrong Ceilings 15/16" Prelude XL Max suspension system. Compatible with Tegular and Lay-in tiles.

## MATERIALS:

Anodized aluminum extruded body, steel mounting clips, ABS end caps, high transmitting acrylic PMMA lens.

## ELECTRIC:

Universal input voltage of 120-277Vac. Junction box installed on fixture with integral driver for connection to line voltage and 0-10V dimming system. For EM Battery Kit order separately. PoE options available, consult factory.

## WARRANTY:

5 years limited warranty. For complete warranty terms, please visit our website.

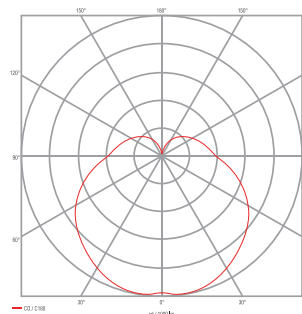
## LISTINGS:

ETL/cETLus CE RoHS. Indoor use only. IC rated.

## Photometrics

CRI > 82 (90CRI available on request)

L80 > 60,000 hrs



Diffuse White Square 4000K

| Output | lm/ft | W/ft | lm/W |
|--------|-------|------|------|
| LO     | 480   | 3.2  | 150  |
| MO     | 682   | 4.9  | 139  |
| HO     | 1003  | 7.4  | 135  |



# TERALyte™ 2"

for **Armstrong** DYNAMax™  
CEILING SOLUTIONS




TERALyte 2" provides an integrated lighting solution that mounts directly into the 3/8" bottom slot of the Armstrong® Dynamax structural aluminum grid system. The fixture is designed to occupy the width of the grid only, and the junction box can be simply installed onto the upper screw slot of the grid system. The integrated driver features a universal 120-277VAC input and 0-10V dimming.


## Mounting Configurations

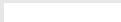


*TERALyte 2" is a fully integrated lighting solution for heavy duty extruded ceiling systems.*

TERALyte 2" can be installed anywhere along the bottom slot of the extruded grid ceiling system including both main runners and cross tees for maximum light design versatility.

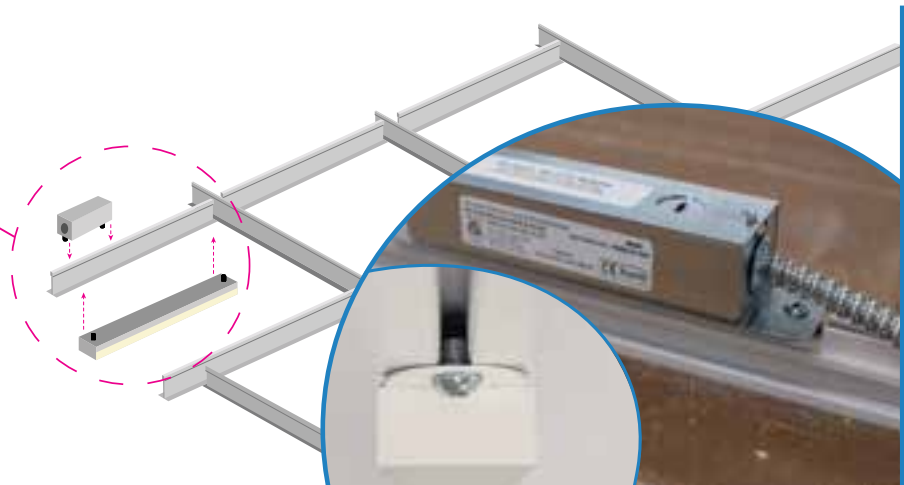
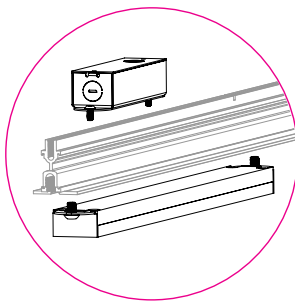
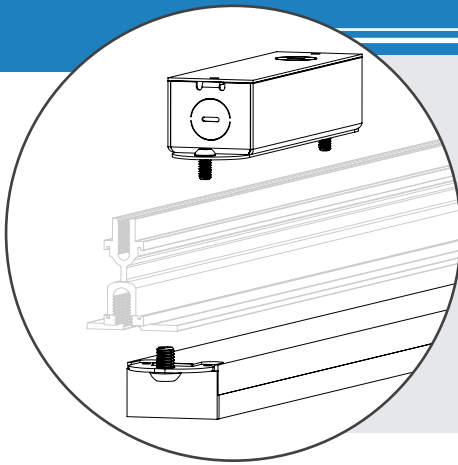
4' TERALyte 2" 

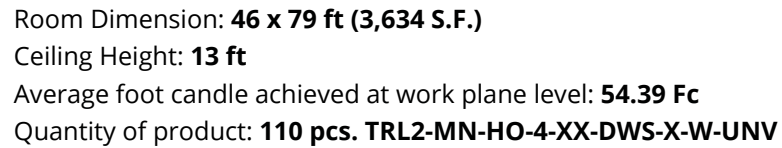
2' TERALyte 2" 

Possible positions for  
TERALyte 2" light modules 

## Installation

TERALyte 2" utilizes simple mounting clips on each end and is provided with 3/8" bolts for installation into the bottom screw slot of the Armstrong® Dynamax grid system. The fixture requires a single hole to be drilled through the grid for wiring access. The junction box easily installs into the upper screw slot of the grid system.



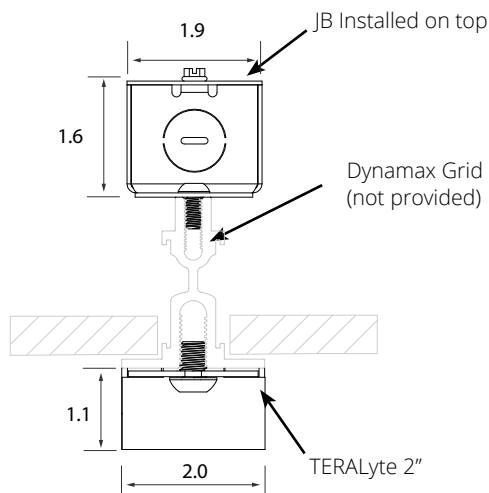
[illegible]

| Product Name             | LED/K Color   | Light Output   | Length                             | Grid Type   | Optic                             | Mounting Clips  | Color   | Driver  |
|--------------------------|---|--|------------------------------------|---|-----------------------------------|---|---|---|
| TRL2 = TERALyte 2"       | <b>HW</b> = 3000K<br><b>MW</b> = 3500K<br><b>MN</b> = 4000K<br><b>CN</b> = 5000K<br><br>90 CRI available, on request. | <b>LO</b> = Low Output<br><b>MO</b> = Medium Output<br><b>HO</b> = High Output<br><br>Custom lumen outputs available, consult factory. | <b>2</b> = 2 ft<br><b>4</b> = 4 ft | <b>DM</b> = Armstrong Dynamax<br><b>O</b> = Other | <b>DWS</b> = Diffuse White Square | <b>B38</b> = Bottom Slot Thread 3/8"<br><b>C</b> = Custom | <b>W</b> = White<br><b>B</b> = Black<br><b>C</b> = Custom | <b>UNV</b> = 120-277 Vac 0-10V dimming<br><b>POE</b> = Power over Ethernet*<br><br>Optional Battery Back Up Available (sold separately) |
| www.jlc-tech.com/patents |   |  |                                    |   |                                   |   |   | *For PoE, consult factory   |

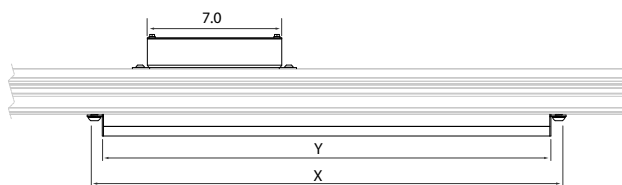


## Profile Dimensions

(Compatible with Tegular and Lay-in tiles)



## Length Dimensions



| Size    | Grid Type    | X   | Y   |
|---------|--------------|-----|-----|
| 2 = 2ft | DM = Dynamax | 24" | 23" |
| 4 = 4ft | DM = Dynamax | 48" | 47" |

## NOTES:

TERALyte™ 2" is designed for a simple and seamless installation with heavy duty extruded aluminum suspension ceiling systems including Dynamax™ structural aluminum grid by Armstrong Ceilings.

## APPLICATIONS:

Data centers and other spaces using extruded aluminum or Dynamax™ structural grid suspension ceiling systems.

## MOUNTING:

Mounting brackets for easy installation into the bottom extruded screw boss of the grid ceiling system. Remote LED driver simply installs onto the back extruded screw boss. Compatible with Tegular and Lay-in tiles.

## MATERIALS:

Painted aluminum extruded body, steel mounting clips, painted aluminum end caps, high transmitting acrylic PMMA lens.

## ELECTRIC:

Universal input voltage of 120 - 277VAC. Junction box installed remote to fixture with integral driver and wire nuts inside for connection to branch circuit and 0-10V dimming system. Fixture must be installed in accordance with local electrical codes. For EM Battery Kit order separately. PoE options available, consult factory.

## WARRANTY:

5 years

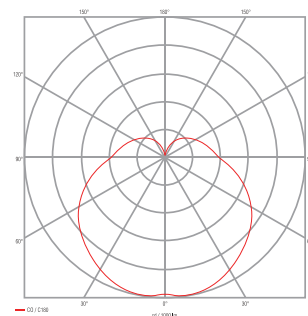
## LISTINGS:

ETL/cETLus CE RoHS. Indoor use only.

## Photometrics

CRI > 82

L80 > 60,000 hrs



Diffuse White Square 4000K

| Output | lm/ft | W/ft | lm/W |
|--------|-------|------|------|
| LO     | 640   | 4.7  | 136  |
| MO     | 980   | 7.5  | 131  |
| HO     | 1246  | 9.4  | 132  |



Data Center - Mid-Atlantic Region  
*Facility Management and Illuminations Inc.*



# T3BAR LED®

EM Battery & Driver Kit *for 24 VDC Product lines*

Compatible with

T3BAR LED® | T3BAR UP® | T3BAR TWO® | T3BAR ECO® DC | Sorella™



# T-BAR LED<sup>®</sup> EM Battery & Driver Kit

for 24 VDC Product lines  
by JLC • tech

Factory wired LED driver with battery back-up for remote installation allows the same T-BAR LED to be used for both normal and emergency operation. In emergency mode the kit provides 12W of power for 90 minutes. Available with 0-10Vdc nominal 1% dimming during non-emergency mode.



**CP** CONSTANT  
POWER  
EMERGENCY OUTPUT

*T-BAR LED EM Battery & Driver Kit is compatible with the following product range:*

T-BAR LED<sup>®</sup>  
T-BAR UP<sup>®</sup>  
T-BAR TWO<sup>®</sup>  
T-BAR ECO<sup>®</sup> DC  
Sorella<sup>™</sup>

## Key Features

- 120-277V AC Input
- Up to 64W output power in standard operation (Up to 8' of T-BAR LED product max)
- 12W output power in emergency operation
- Constant Voltage Output
- 0-10V Dimming
- UL Listed
  - UL8750 and UL2043 (LED Driver)
  - UL924 Listed, UL Listed and Classified to FTBV (Battery)
- Rated for use in Plenum, Dry and Damp Locations
- Long life high temperature recyclable Ni-Cad Battery (24 hour recharge, 7-10 year life expectancy)
- For use with switched or unswitched fixtures
- Includes single piece test switch and charge indicator light
- Meets or exceeds all NEC, IBC, and Life Safety Code Emergency Lighting Requirements
- 90 min operation maintains illumination for the full emergency runtime with no degradation
- Operating Temp: 0° - 50° C
- 5 year warranty
- RoHS compliant



*T-BAR LED EM Battery & Driver Kit comes with a single-piece charge indicator light and test switch accessory.*



## Mechanical Details

|                     |  |
|---------------------|--|
| Ingress Protection: | IP20   |
| Weight:             | 6 lbs  |
| Dimensions:         | 20" x 7" x 2"  |
| I/O Connections:    | AC input and DC output connections are made inside the wiring junction boxes |

## Input/Output Specifications

|                               |                     |
|-------------------------------|---------------------|
| Input Voltage                 | 120–277VAC, 50/60Hz |
| Input Rating (Battery)        | 3.7 Watts (Max)     |
| THD                           | < 20%               |
| Power Factor                  | ≥ 0.9               |
| Output Voltage (Driver)       | 24V DC              |
| Output Current (Driver)       | 2.74A (Max)         |
| Output Power (Driver)         | 64 Watts (Max)      |
| Output Power (Battery)        | 12 Watts (Constant) |
| Efficiency (Driver)           | 90% typical         |
| Emergency Operation           | 90 minutes          |
| Output Current in Dimming     | 1 to 100%           |
| Maximum 0-10 sourcing current | 500 uA (Max)        |

## Emergency Lumen Performance

### Emergency Lumens\*

|                                | 15/16" | 9/16" |
|--------------------------------|--------|-------|
| T-BAR LED/Sorella "D" Optic    | 900    | 650   |
| T-BAR LED/Sorella "B/B2" Optic | 865    | 675   |
| T-BAR LED/Sorella "C2" Optic   | 1200   | 1050  |
| T-BAR UP                       | 925    | 925   |
| T-BAR ECO DC                   | 1312   | N/A   |

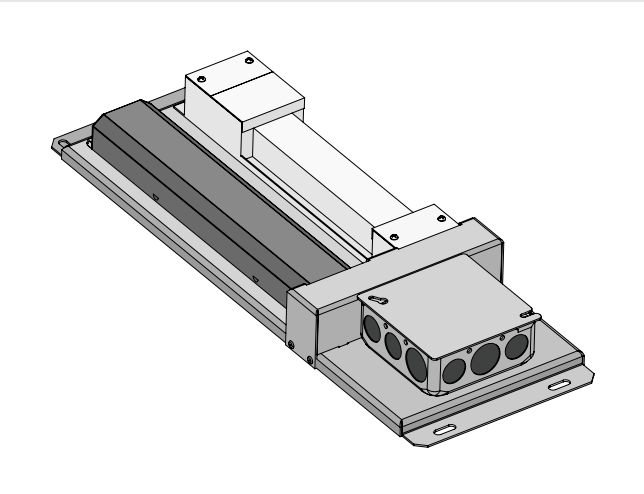
\*Due to the 12W Constant Power output, when operating in emergency mode in the event of a power loss, the lumen output from the T-BAR LED products connected to the kit will always correspond with the above chart, regardless of the fixture run length. For example, 2ft of T-BAR LED connected to the emergency kit, when operating in emergency mode, will output the same amount of lumens as 8ft of T-BAR LED.

During normal operation, any fixture connected to the emergency kit will provide its typical lumen output according the individual fixtures spec sheet.

*Please contact JLC-Tech for additional information on other available optic types or for assistance with photometric performance/calculations.*

| Product Name                                  | Driver Type   | Battery                 | Wattage                | Voltage                         |
|---|---|-------------------------|------------------------|---------------------------------|
| <b>TBEM</b> = T-BAR LED EM Battery/Driver Kit | <b>PS</b> = Non Dimmable<br><b>DIM</b> = 1% Dimmable 0-10 VDC | <b>12</b> = 12W Battery | <b>64</b> = 64W Driver | <b>UNV</b> = Universal 120-277V |

WARRANTY: 5 years



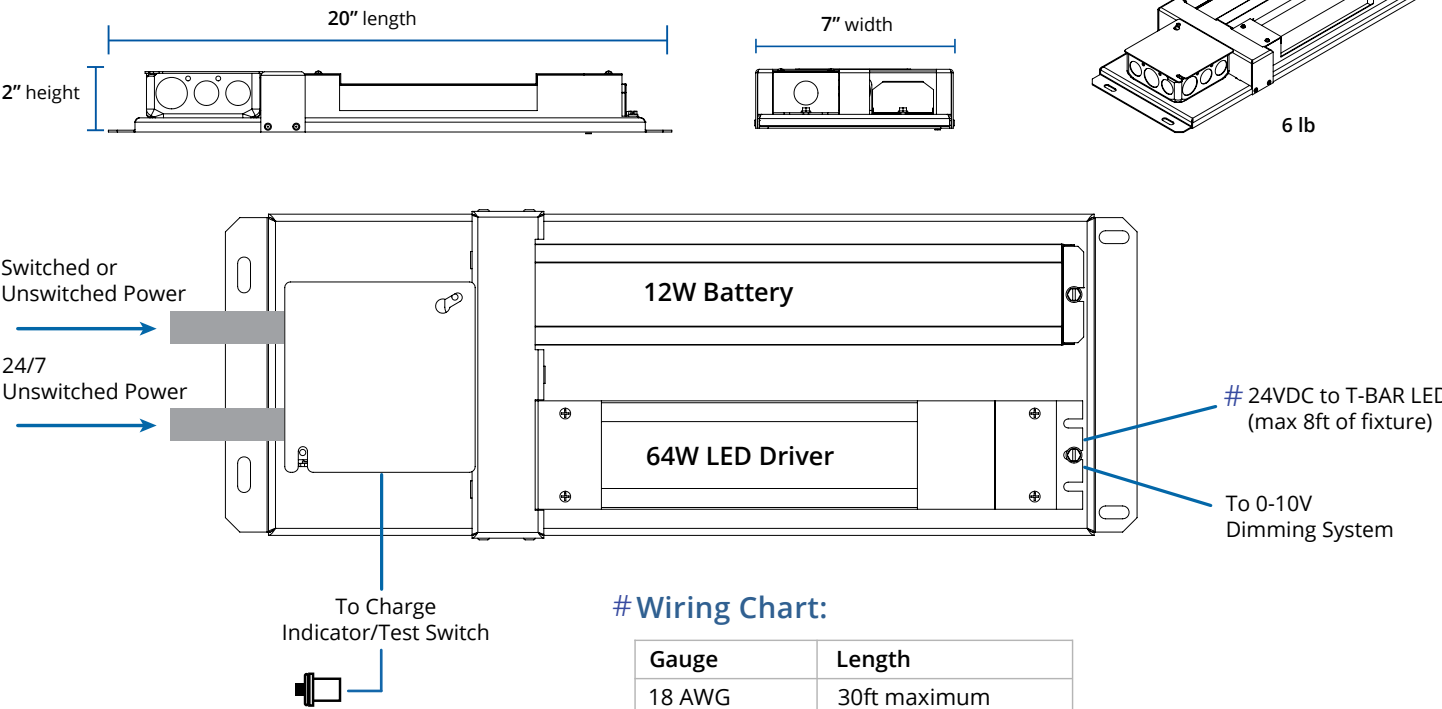
**T-BAR LED® EM Battery & Driver Kit**  
24VDC 64W LED Driver with 12W Battery Kit  
*0-10 VDC dimmable and non dimmable*

Factory wired battery backup and LED driver for remote installation allows the same T-BAR LED to be used for both normal and emergency operation. In emergency mode the kit provides 12W of power for 90 minutes. Available with 0-10Vdc nominal 1% dimming during non-emergency mode.

Power kit includes 4" JB for 120-277V AC input direct wiring with metal conduit and single-piece charge indicator and test switch accessory.

T-BAR LED EM Battery & Driver Kit is compatible with the following product range: T-BAR LED®, T-BAR UP®, T-BAR TWO®, T-BAR ECO® DC, Sorella™.

24VDC 64W LED Driver and 12W Battery



\* Refer to spec sheet and installation instruction for technical specifications and detailed wiring diagram.



## Emergency Battery Kit *for Line Voltage Product Lines*

Compatible with

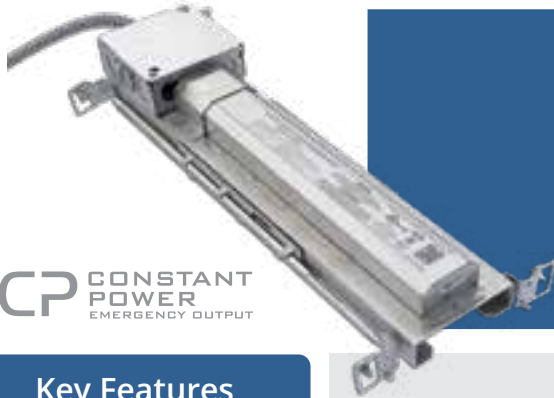
GEMINI™ | T-BAR FLEX® | T-BAR ECO® | TERA<sub>3</sub>Lyte™ | T-BAR LED® X<sub>SERIES</sub>

# Emergency Battery Kit

*for Line Voltage Products*

by JLC • Tech

Factory wired battery backup with integral grid ceiling mounting brackets to easily convert any compatible JLC-Tech fixture into an emergency fixture. The provided flexible metal conduit is pre-wired for a quick connection to a compatible fixture type, allowing the fixture to operate in both normal and emergency operation. In emergency mode the battery kit provides 12W of power for 90 minutes.



*Emergency Battery Kit is compatible with the following product range:*

GEMINI™

T-BAR FLEX®

T-BAR ECO®

TERALyte™

T-BAR LED® X-Series

**CP** CONSTANT  
POWER  
EMERGENCY OUTPUT

## Key Features

- Input Voltage 120-277V AC, 50/60Hz Input
- Input Rating (120/277) 3.7 Watts (max)
- 12W output power (constant)
- Compatible with T-BAR FLEX®, T-BAR ECO®, GEMINI™, TERALyte™, T-BAR LED® X-Series product lines *(fixture sold separately)*
- 24" Flexible metal conduit with wiring for simple connection to compatible fixtures
- Adjustable T-BAR mounting brackets (and surface mount holes) for easy installation in close proximity to fixtures
- UL924 Listed, UL Listed and Classified to FTBV
- UL1310 Certified, Output Class 2 Compliant
- Rated for use in Plenum, Dry and Damp Locations
- Long life high temperature recyclable Ni-Cad Battery (24 hour recharge, 7-10 year life expectancy)
- For use with switched or unswitched fixtures
- Includes single piece test switch and charge indicator light
- Meets or exceeds all NEC, IBC, and Life Safety Code Emergency Lighting Requirements
- 90 min operation maintains illumination for the full emergency runtime with no degradation
- Operating Temp: 0° - 55° C
- 5 year warranty
- RoHS compliant



*Emergency Battery Kit for line voltage products comes with a single-piece charge indicator light and test switch accessory.*

## Input/Output Specifications

|                        |                     |
|------------------------|---------------------|
| Input Voltage          | 120–277VAC, 50/60Hz |
| Input Rating (Battery) | 3.7 Watts (Max)     |
| THD                    | < 20%               |
| Power Factor           | ≥ 0.9               |
| Output Power (Battery) | 12 Watts (Constant) |
| Emergency Operation    | 90 minutes          |

## Emergency Lumen Performance

|                    |      |
|--------------------|------|
| T-BAR Flex         | 1140 |
| T-BAR ECO          | 1800 |
| Gemini Single Lens | 1500 |
| Gemini Double Lens | 1400 |
| TERALyte 1"        | 1800 |
| TERALyte 2"        | 1632 |
| T-BAR LED X-Series | 1320 |

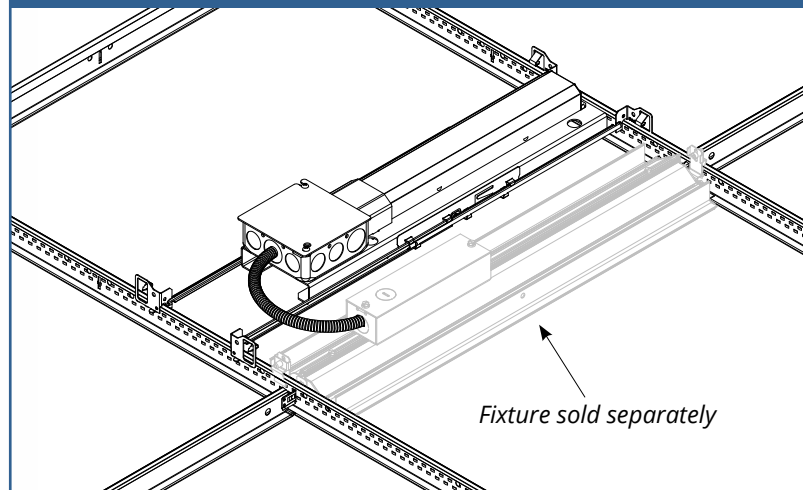
*\*Approximate values, consult factory for more info.*



During normal operation, any fixture connected to the emergency kit will output its typical lumen output according to the individual fixture's spec sheet.

***Please contact JLC-Tech for additional information or for assistance with photometric performance/calculations.***

## Installation

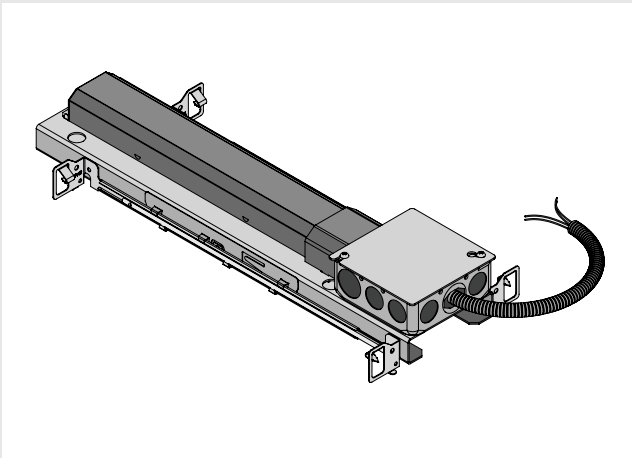


The battery backup kit is provided with a pair of adjustable T-BAR mounting brackets for simple installation in close proximity to the LED fixture (*sold separately*). They can be adjusted to fit over various typical grid spacing patterns (i.e 2x2) and also DESIGNFlex™ grid layouts. Alternatively the kit can be surface mounted using the provided four mounting holes.



| Product Name                    | Fixture  | Battery          | Voltage                  |
|---------------------------------|--|------------------|--------------------------|
| TBEM = T-BAR LED EM Battery Kit | <b>FLEX</b> = T-BAR FLEX<br><b>ECO</b> = T-BAR ECO<br><b>GEM</b> = GEMINI<br><b>TRL</b> = TERALyte<br><b>XS</b> = T-BAR LED X-Series | 12 = 12W Battery | UNV = Universal 120-277V |

WARRANTY: 5 years



## Emergency Battery Kit

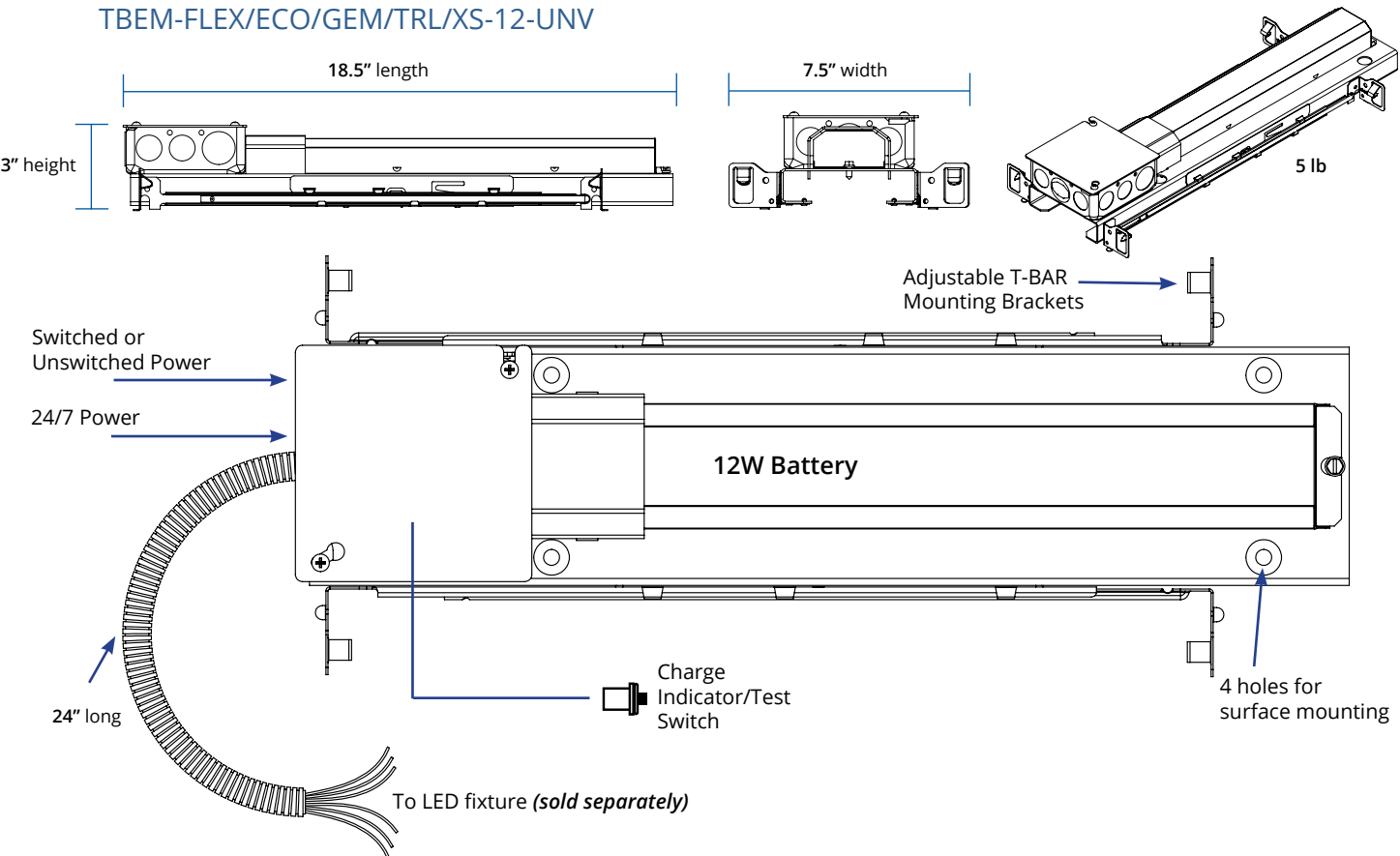
12W Constant Power Battery Backup Kit for T-BAR FLEX®, T-BAR ECO®, GEMINI™, TERALyte™ and T-BAR LED® X-Series (Fixture sold separately)

Battery backup for remote installation allows a compatible fixture to be used for both normal and emergency operation. In emergency mode the kit provides 12W of power for 90 minutes (refer to technical spec for lumen information).

Battery kit includes 4" JB for 120-277V AC input wiring, adjustable T-BAR mounting brackets, surface mounting holes, 24" flexible metal conduit with wiring for easy connection to compatible fixture and single-piece charge indicator and test switch accessory (face plate not provided).

**Compatible with line voltage product lines.**

TBEM-FLEX/ECO/GEM/TRL/XS-12-UNV



\*Refer to spec sheet and installation instruction for technical specifications and detailed wiring diagram.

# JLC • tech



*Where no light has gone before.*

JLC-Tech was founded with one singular vision: to create unique and useful LED lighting fixtures.

Improve room acoustics, achieve even illumination, reduce installation costs and minimize construction waste by using JLC-Tech's products, the only lighting fixtures that replace the cross tee in the suspended ceiling system.

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