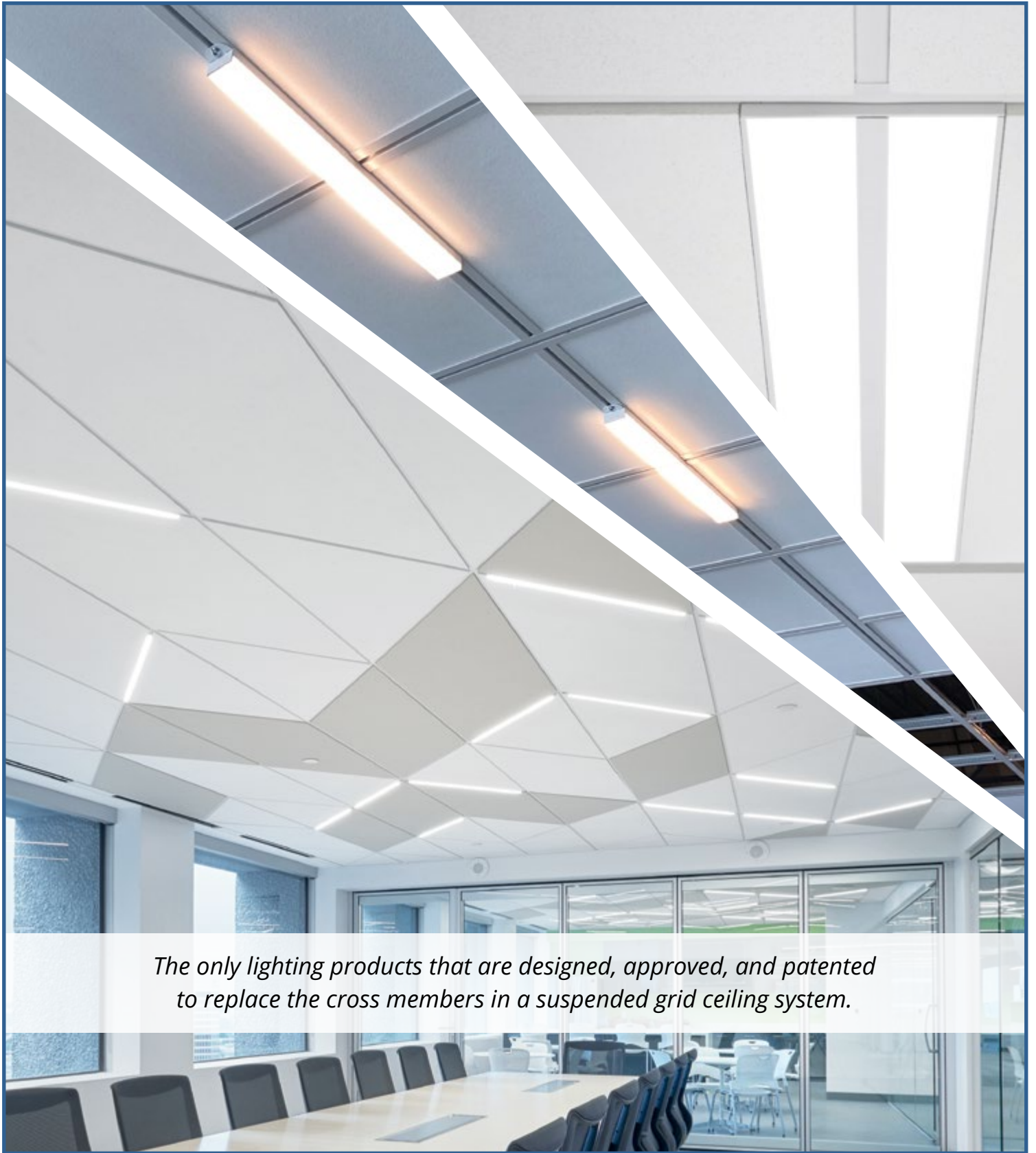


JLC • tech

*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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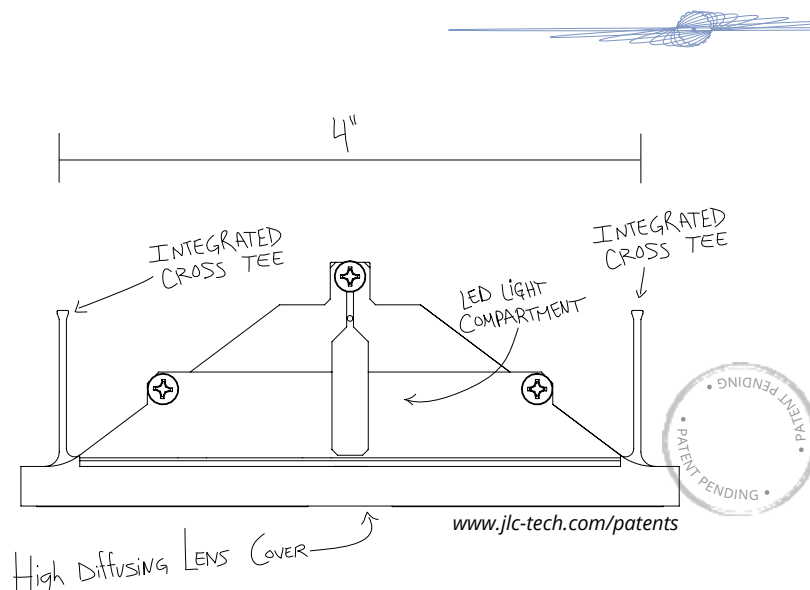


GEMINI™

*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.

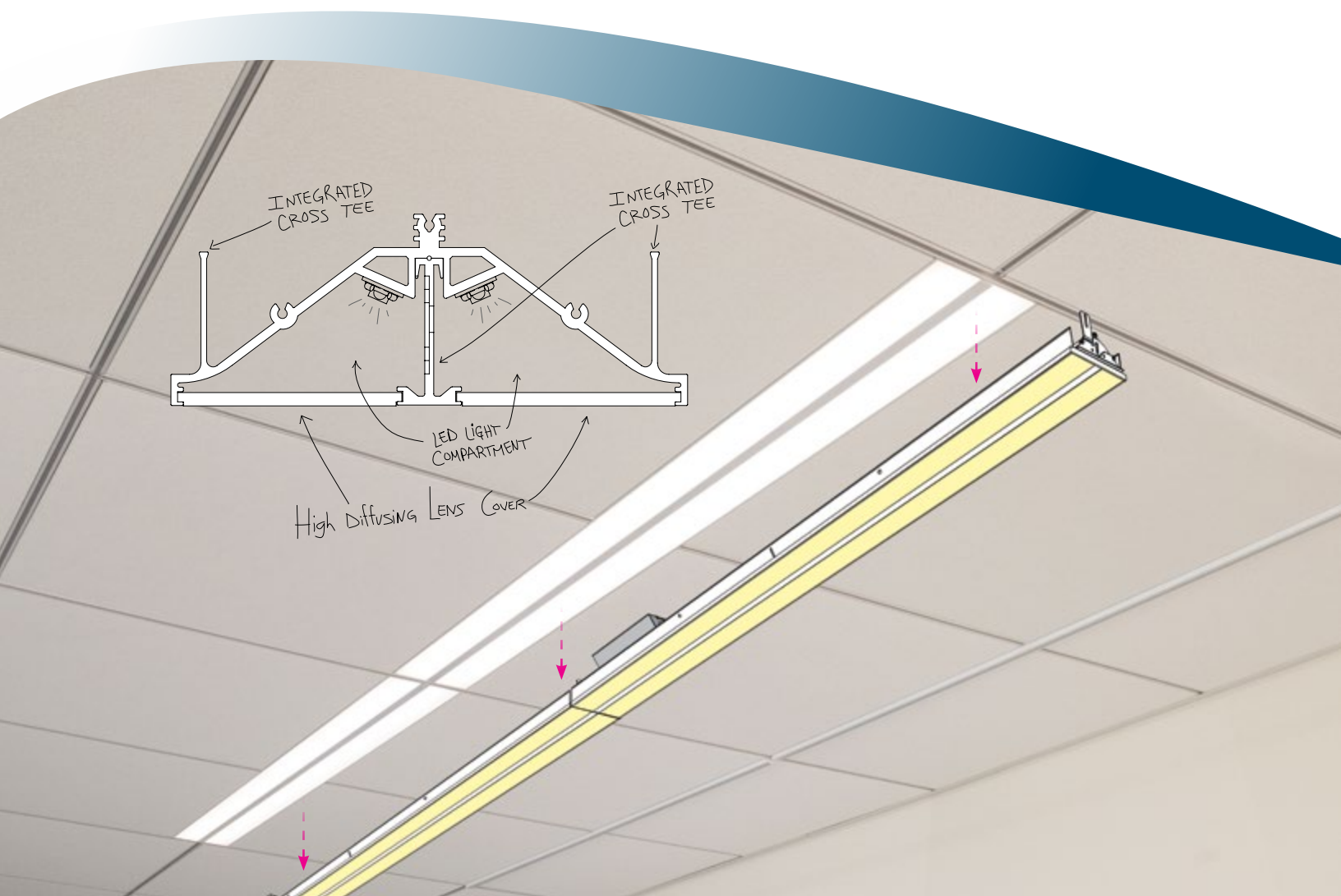
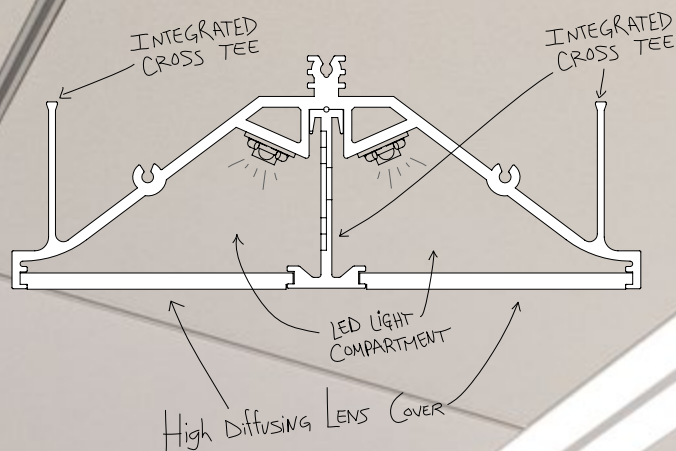
JLC-Tech is a pioneer in LED lighting, revolutionizing and challenging the status quo on how we illuminate our spaces.

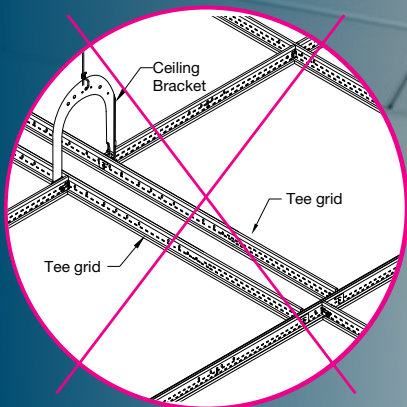
Why GEMINI™

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.

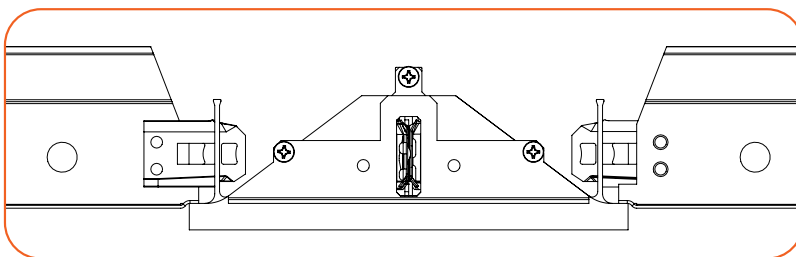
Each lens option is also available with a choice of high performance optics. The Diffuse White (DW) optic utilizes a high efficiency PMMA diffusing lens for a smooth look with no visible LEDs. The DW optic is ideal for a clean look and wide light distribution for even illumination. The Diffuse Prismatic (DP) 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 DP optic is the perfect tool to design towards UGR requirements without sacrificing visual aesthetics.



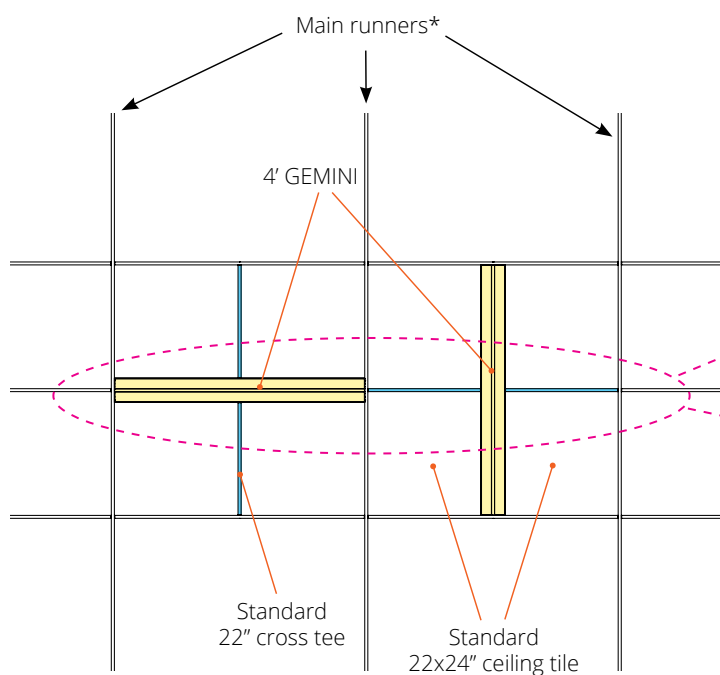


Custom opening not required.

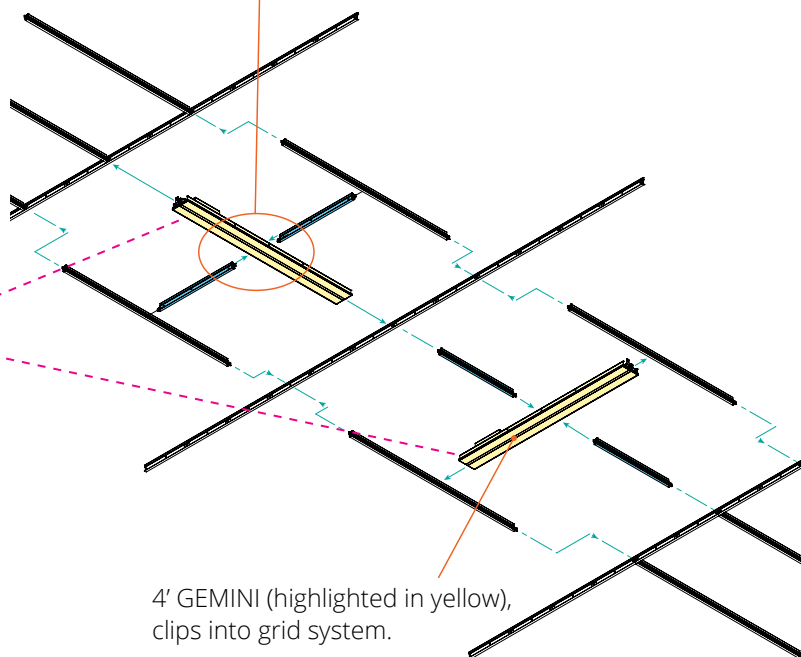
GEMINI is the first and only linear downlight for grid ceilings that installs without the need to build a custom opening in the grid system to support the fixture for on-center linear lighting.



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



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



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

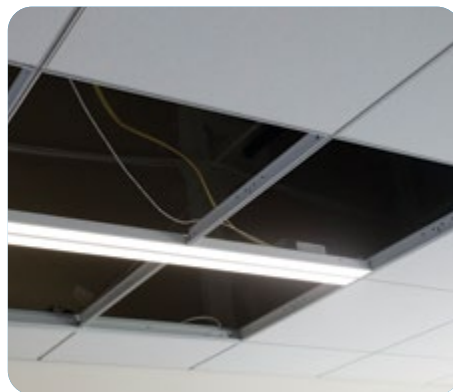
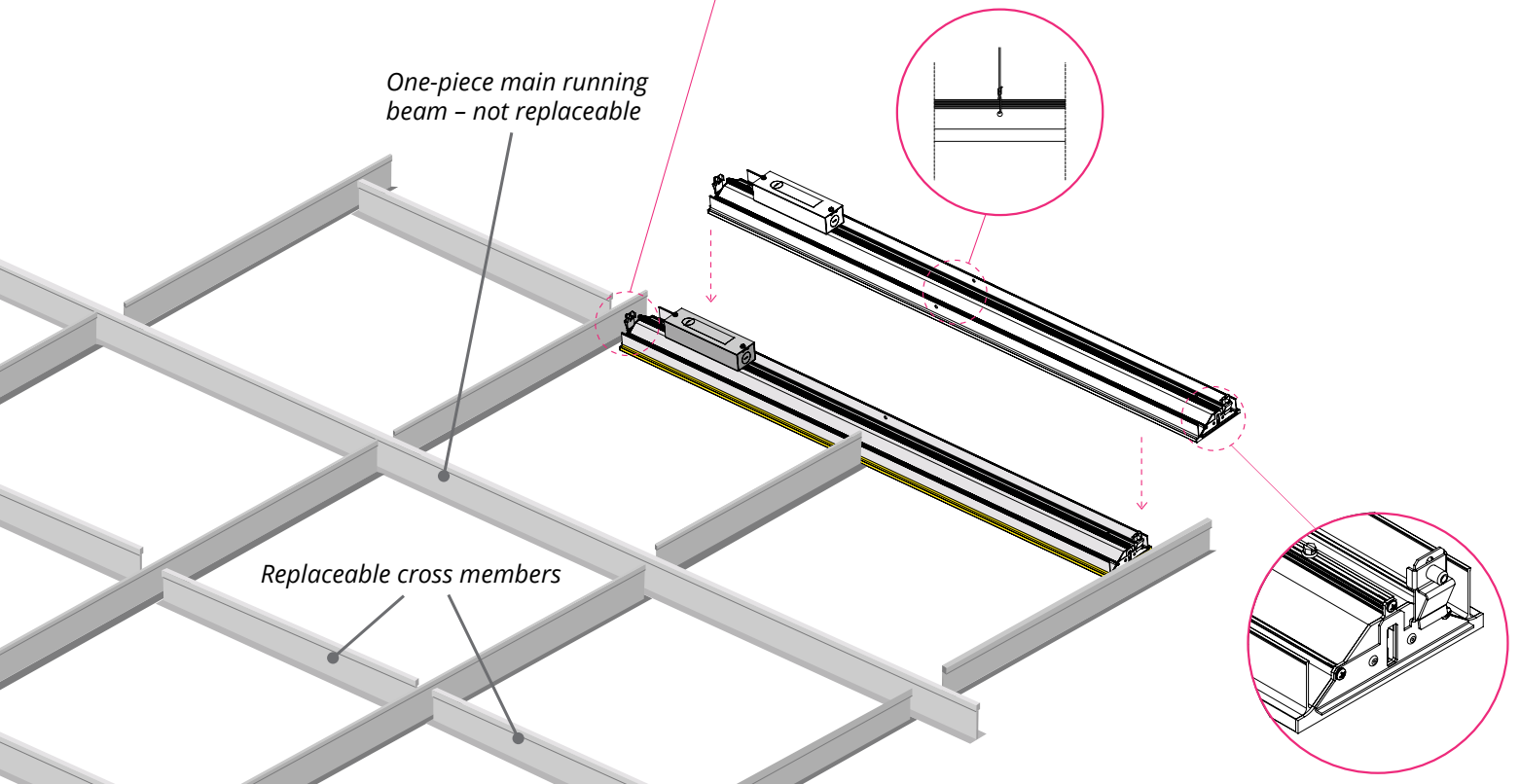
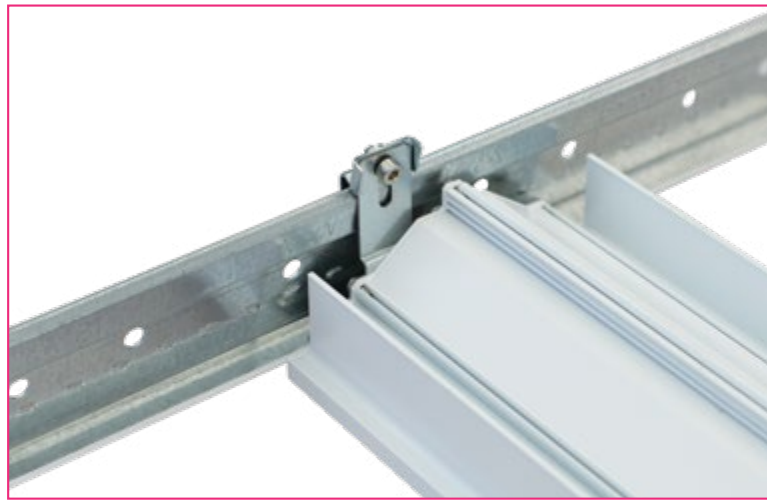


How to install the GEMINI™

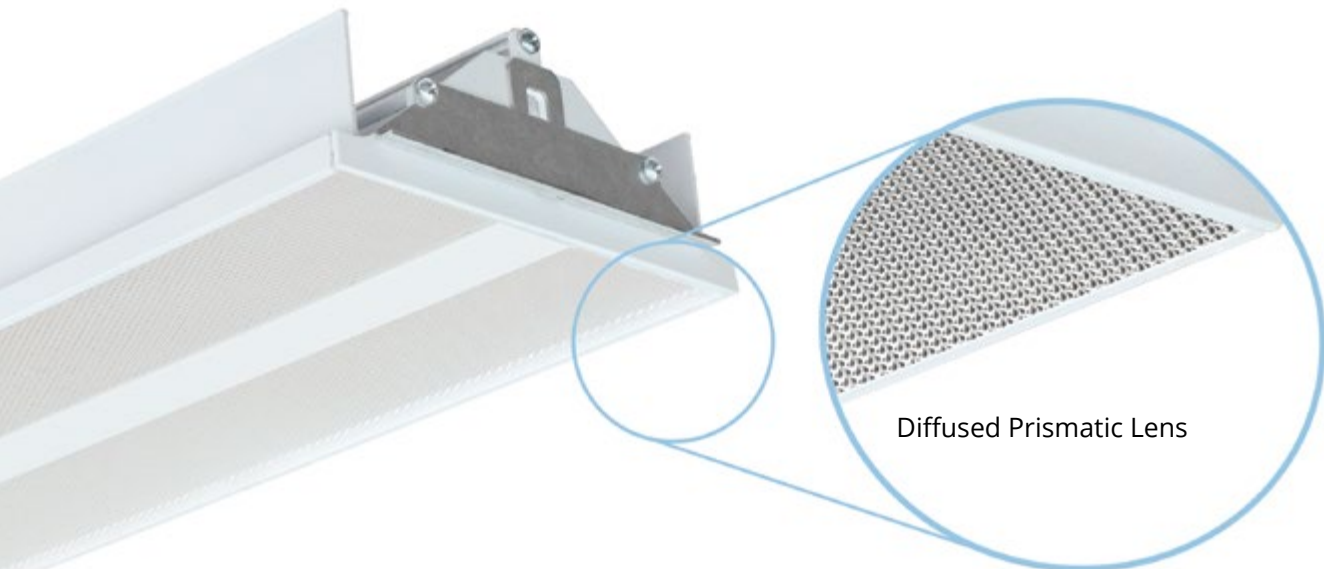
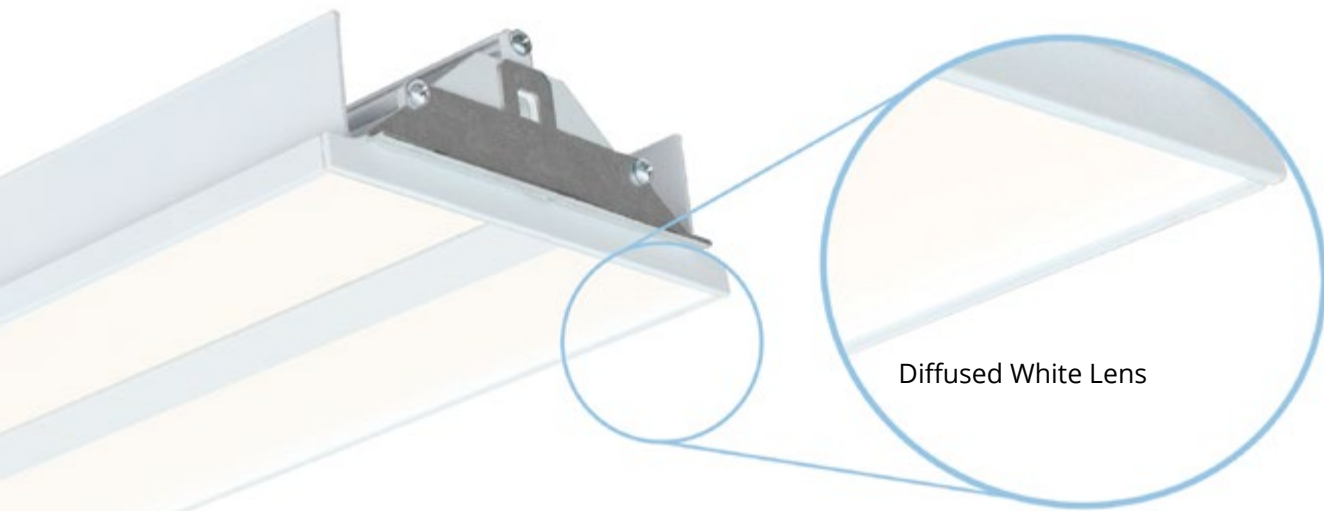
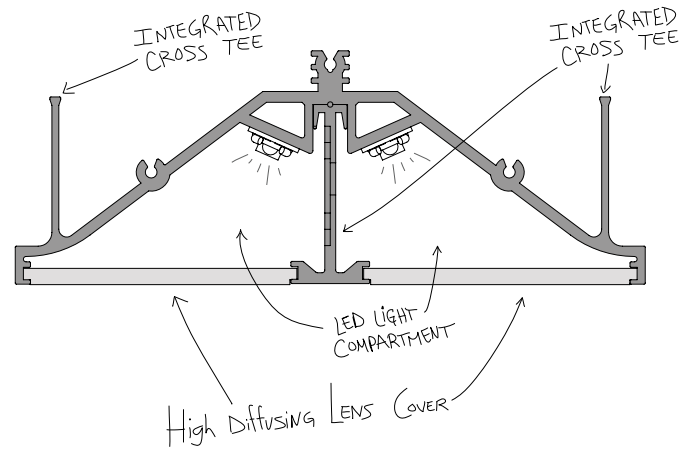
Universally Compatible Clip

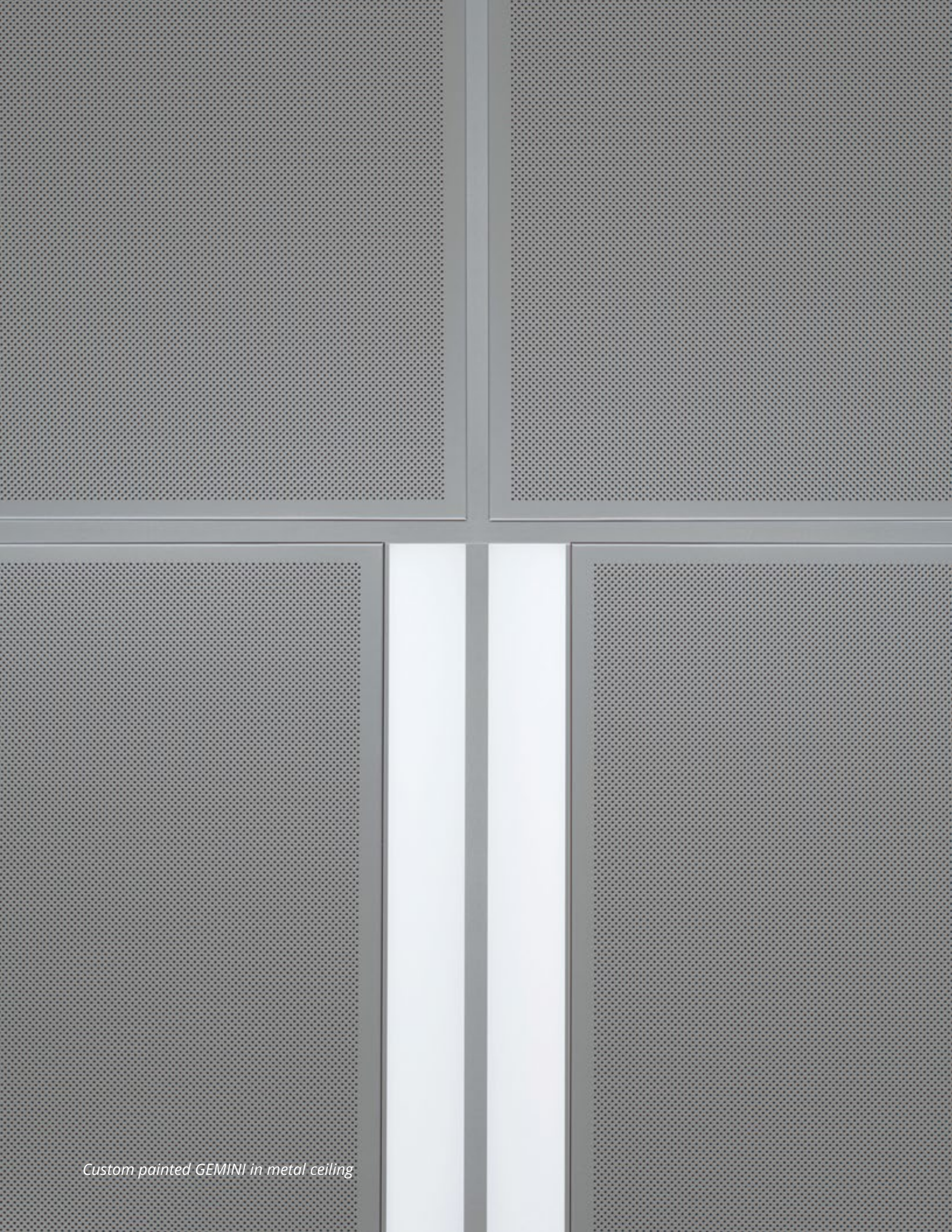
Specially designed brackets are mounted at each end of the fixture for easy installation into most manufacturers' standard 15/16" and 9/16" ceiling suspension systems.





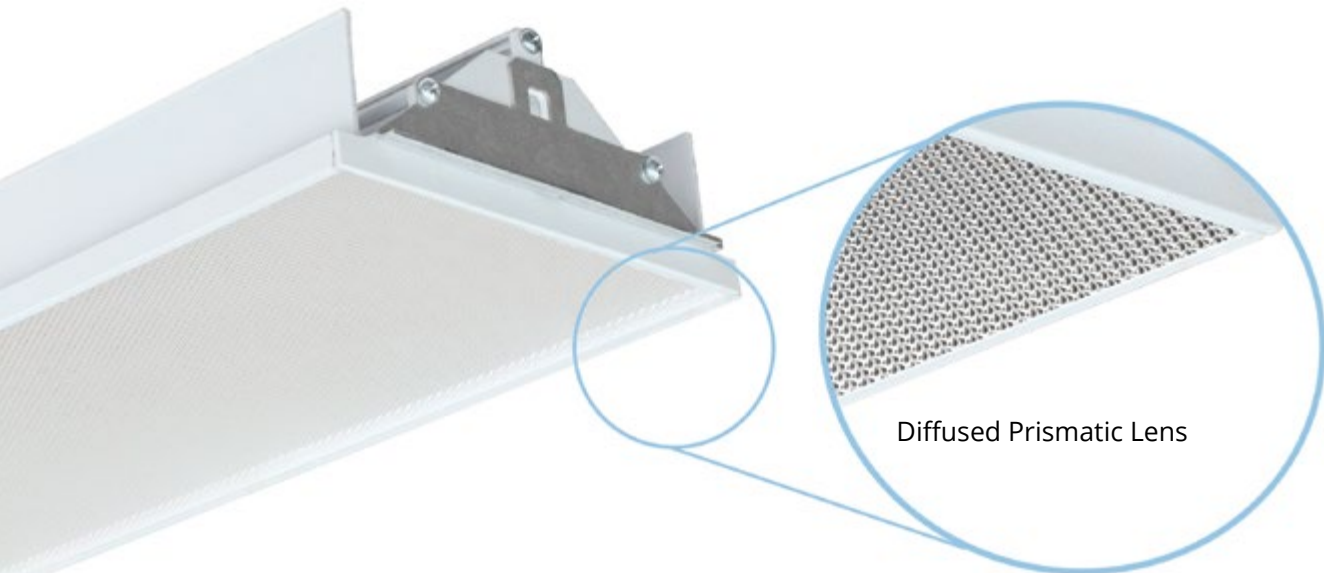
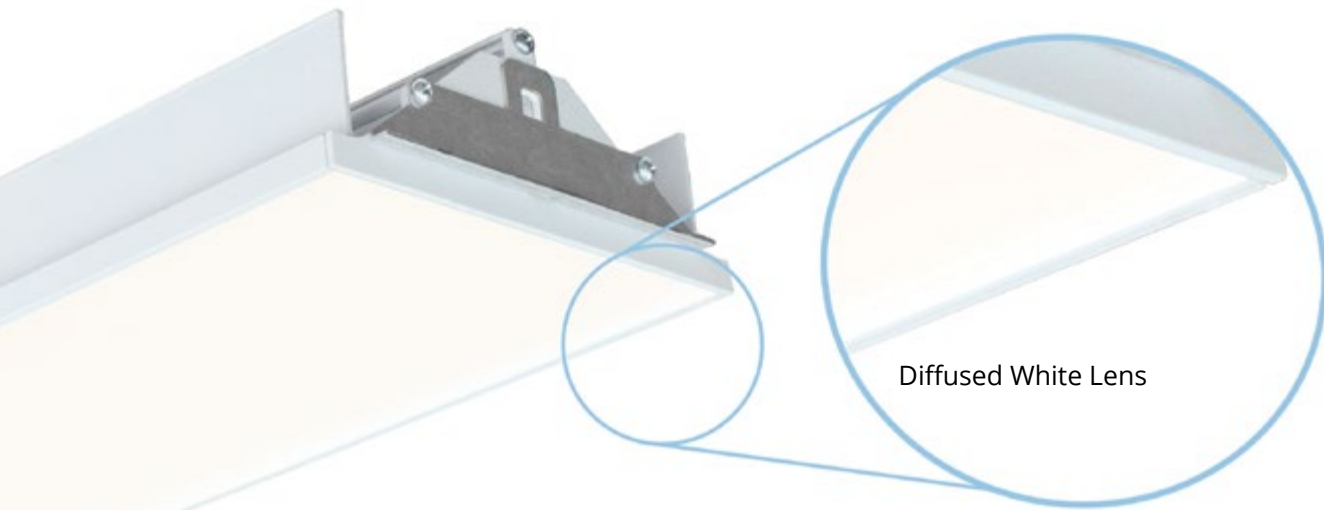
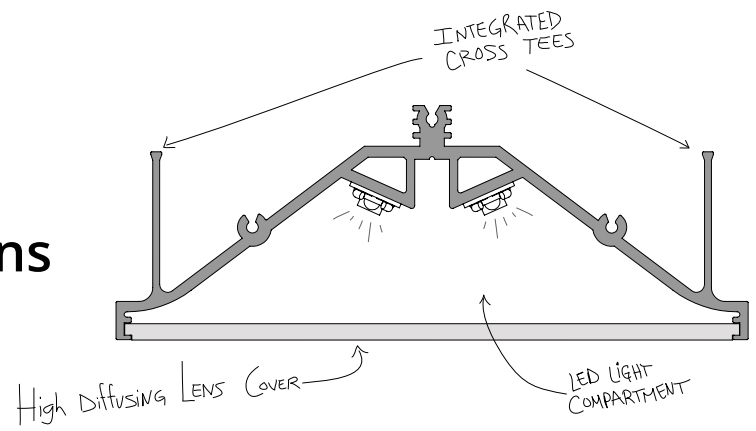
GEMINI™ Double Lens

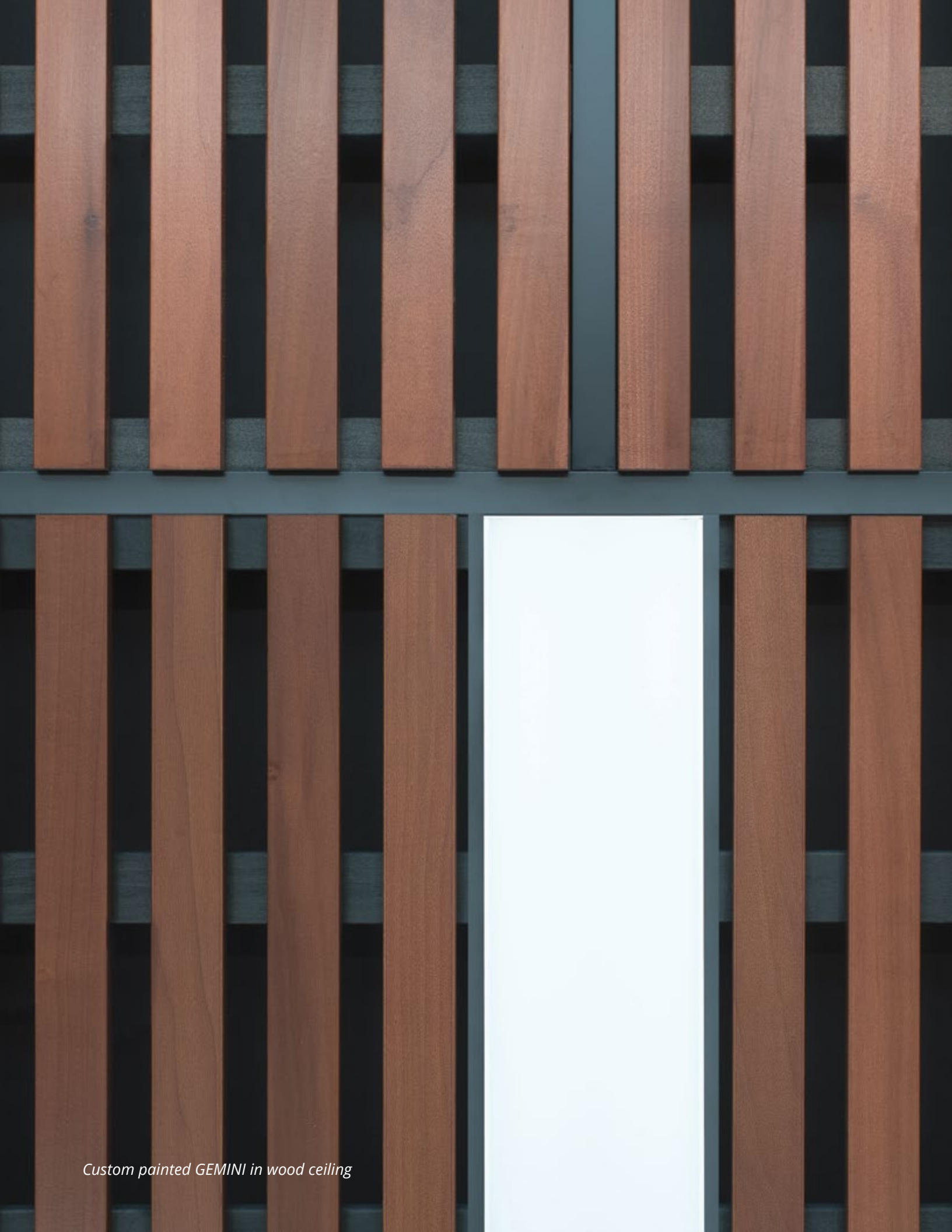




Custom painted GEMINI in metal ceiling

GEMINI™ 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
GEMD = GEMINI Double Lens	HW = 3000K	500 = 500 lm/ft	2 = 2 ft	24 = 15/16"	DW = Diffused White	U = Universal	W = White	UNV = 120-277 Vac 0-10V dimming	CP = Chicago Plenum
GEMS = GEMINI Single Lens	MW = 3500K	750 = 750 lm/ft	4 = 4 ft	15 = 9/16"		A = Armstrong	B = Black		
	MN = 4000K	1000 = 1000 lm/ft	5 = 5 ft	15B = 9/16" Bolt Slot	DP = Diffused Prismatic	W = Specialty Wood	C = Custom	POE = Power over Ethernet*	
	HN = 4500K		Metric						
	CN = 5000K		6 = 60 cm						
	90 CRI available, on request.	Custom lumen outputs available, consult factory.	12 = 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 Diffused Prismatic (DP)



Double Lens Diffused Prismatic (DP)

**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 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, "DP" 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.

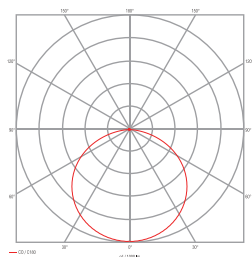
WARRANTY:

5 years

LISTINGS:

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

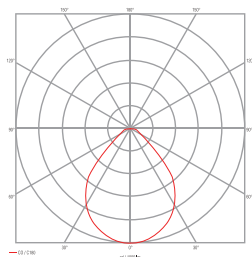
Photometrics CRI = >82

 $L_{80} > 60K$ hrs

9/16" Diffused White Double Lens 4000K

Diffused White Double Lens

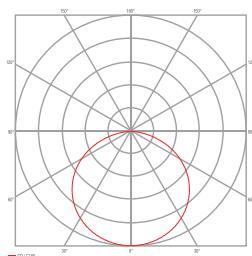
Code Selection	Output (lm/ft)	Power (watts/ft)	Efficacy (lm/W)
500 = 500 lm/ft	487	4.6	105.9
750 = 750 lm/ft	731	7.2	101.5
1000 = 1000 lm/ft	975	9.4	103.7



9/16" Diffused Prismatic Double Lens 4000K

Diffused Prismatic Double Lens

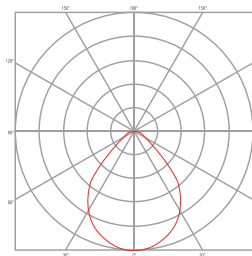
Code Selection	Output (lm/ft)	Power (watts/ft)	Efficacy (lm/W)
500 = 500 lm/ft	453	4.6	98.5
750 = 750 lm/ft	680	7.2	94.4
1000 = 1000 lm/ft	908	9.4	96.6



9/16" Diffused White Single Lens 4000K

Diffused White Single Lens

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



9/16" Diffused Prismatic Single Lens 4000K

Diffused Prismatic Single Lens

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

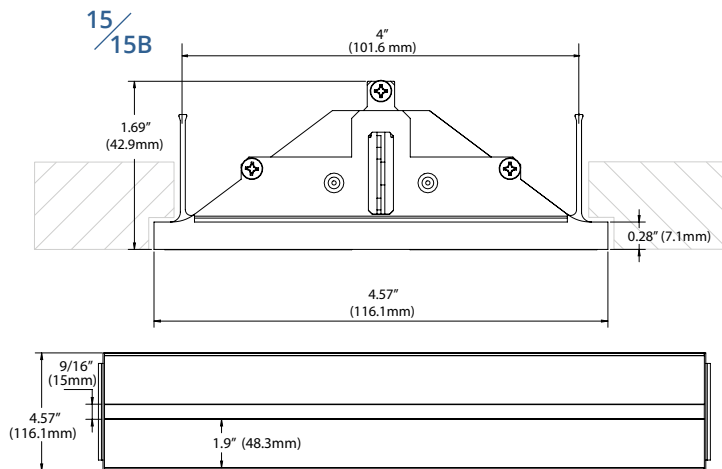
*Complete photometric info and IES files are available for download at www.jlc-tech.com

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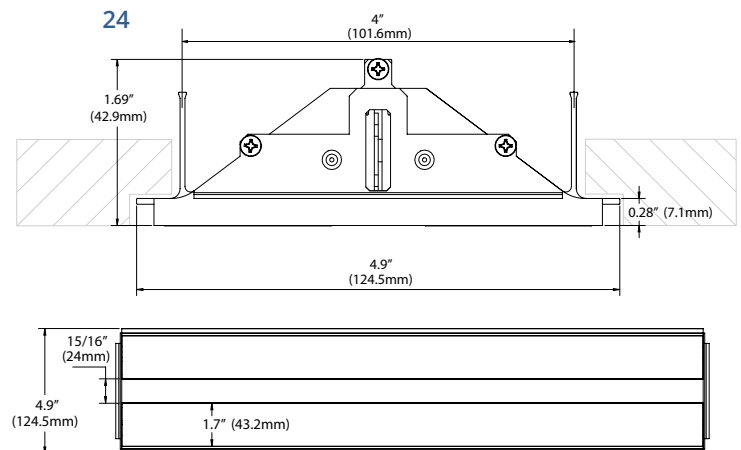


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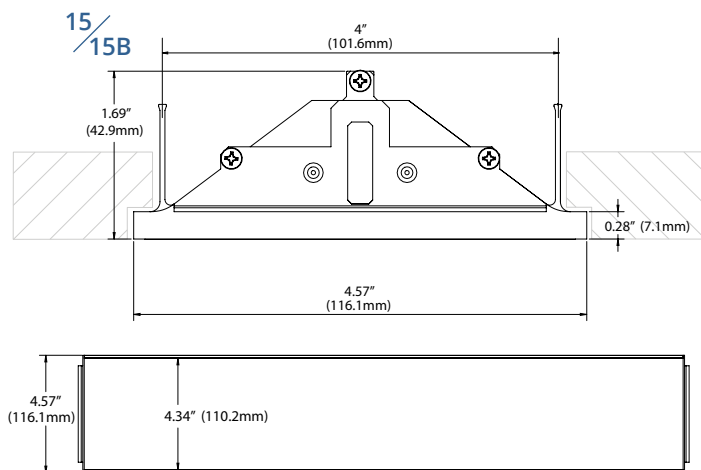
Dimensions (Compatible with Tegular and Lay-in tiles)



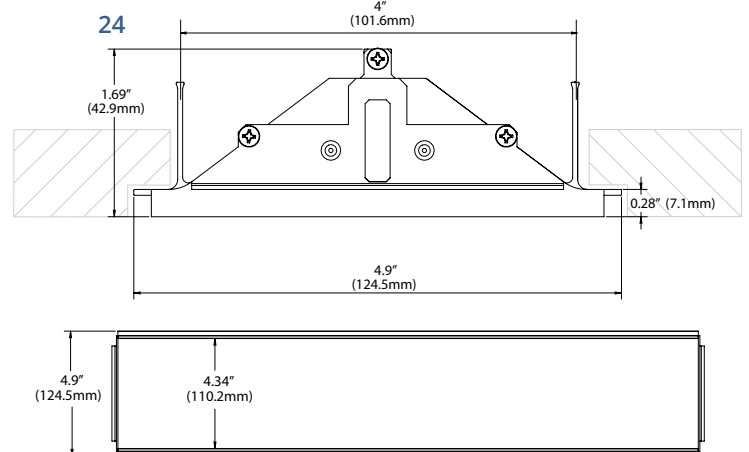
9/16" GEMINI Double Lens
GEMD-XX-X-X-15/15B-XX-X-W-UNV



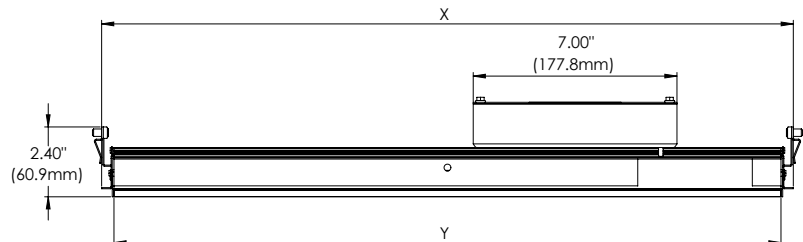
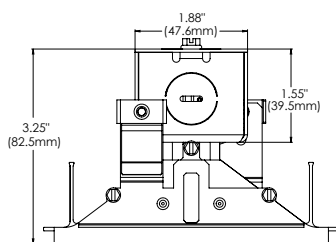
15/16" GEMINI Double Lens
GEMD-XX-X-X-24-XX-X-W-UNV



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[®]

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

Introducing the T-BAR FLEX[®], a truly integrated lighting solution for the DESIGNFlex[™] 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.”



in partnership with



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



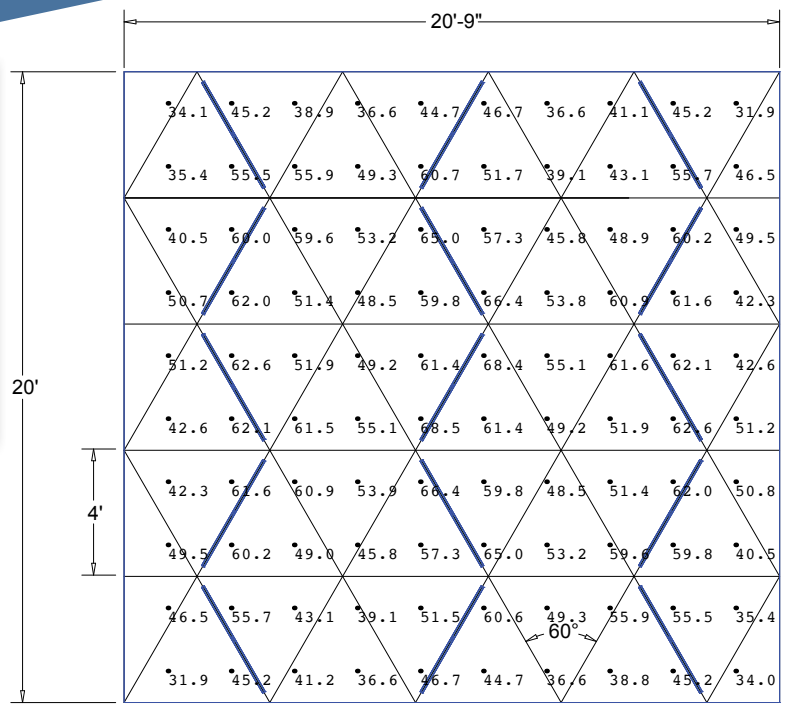
Room dimensions:

20' 9" X 20'
ceiling height – 9ft

Quantity of product:

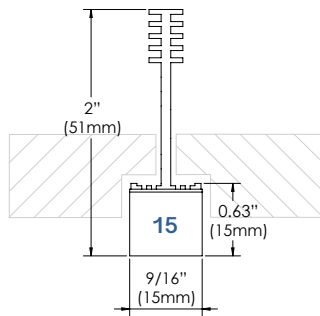
15 pcs – TBFL-MN-49-15-D-A-W
T-BAR FLEX 48" OC, 60° 9/16" (4000K)

Average foot candle achieved at desk: 51.15 FC



Product Name	LED/K Color	Grid Size	Grid Type	Optic	Mounting Clips	Color	Driver	Options
TBFL = T-BAR FLEX	HW = 3000K MW = 3500K MN = 4000K HN = 4500K CN = 5000K 90 CRI available, on request.	16 = 24" OC, 75° 22 = 24" OC, 60° 30 = 24" OC, 45° 41 = 48" OC, 75° 49 = 48" OC, 60° 64 = 48" OC, 45°	15 = 9/16"	D = Diffusing Lens B = Block Clear Diffusing Lens B2 = Block Frosted Diffusing Lens Custom block heights 1/2" - 4" available, consult factory.	A = Armstrong® Ceilings	W = White C = Custom	UNV = Universal 120–277V 0–10V dimming POE = Power over Ethernet*	CP = Chicago Plenum Optional EM Battery Kit available (sold separately).
www.jlc-tech.com/patents								*For PoE, consult factory

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



CRI = >82

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 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, white 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.

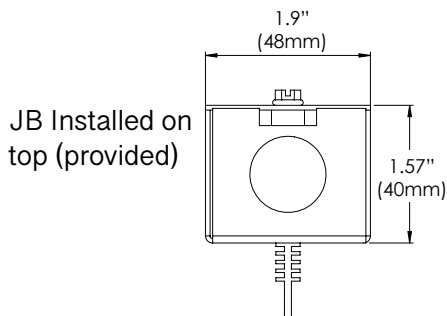
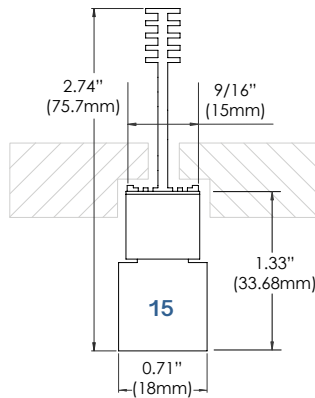
WARRANTY:

5 years

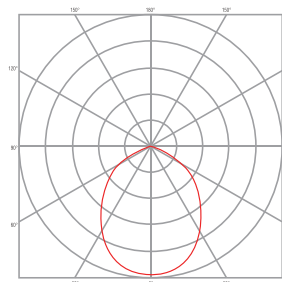
LISTINGS:

ETL/cETLus CE RoHS Indoor use only.

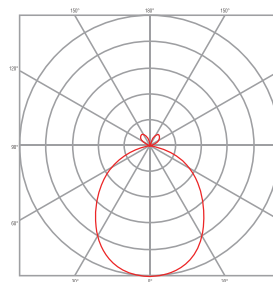
Block Diffusing Lens Profile Dimensions (Compatible with Tegular and Lay-in tiles)



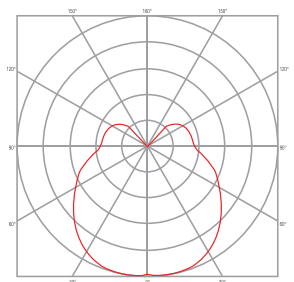
PHOTOMETRICS:



Diffusing Lens



Clear Block Diffusing Lens



Frosted Block Diffusing Lens



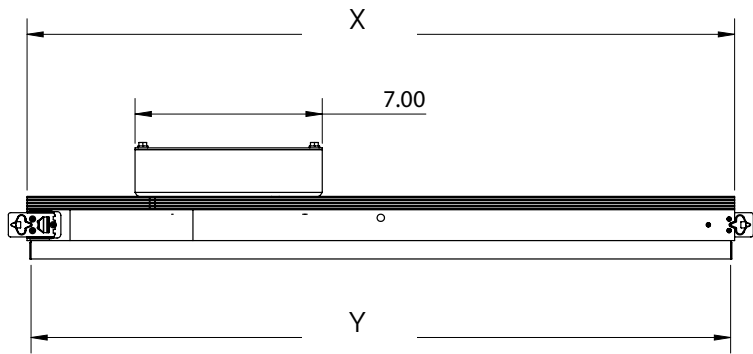
The T-BAR FLEX® is specifically designed for DESIGNflex™ Ceilings Systems by Armstrong® Ceilings. To learn more about this ceiling system visit www.armstrongceilings.com/designflex

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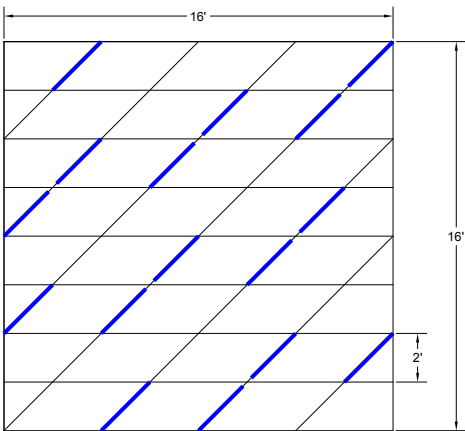
LENGTH DETAILS:



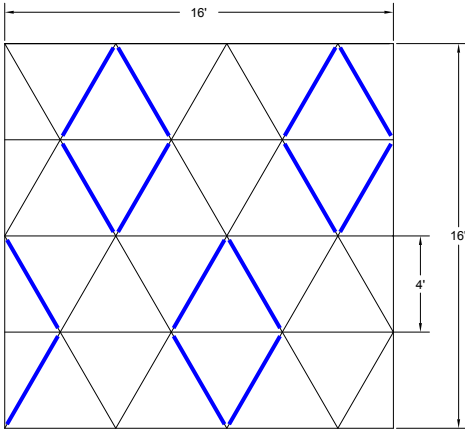
Size	Description	Grid Type	Replaces DESIGNFlex™ ceiling T code	X	Y	Lumens*	Watts	lm/W*
16	24" OC, 75°	9/16"	XM757524	16.92"	16.67"	657	7.3	90
22	24" OC, 60°	9/16"	XM756024	22.68"	22.42"	881	10.4	85
30	24" OC, 45°	9/16"	XM754524	30.43"	30.17"	1181	13.8	86
41	48" OC, 75°	9/16"	XM757548	41.66"	41.41"	1618	19.0	85
49	48" OC, 60°	9/16"	XM756048	49.51"	49.25"	1922	22.4	86
64	48" OC, 45°	9/16"	XM754548	64.37"	64.11"	2499	29.8	84

* Diffusing Lens 4000K

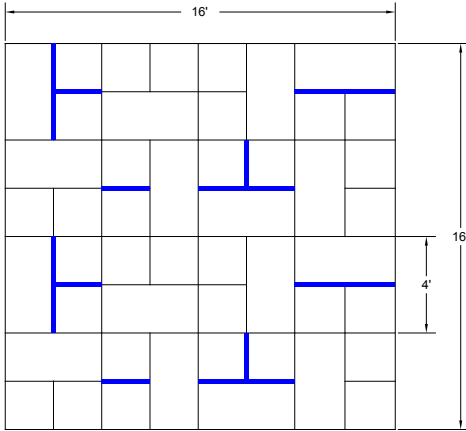
EXAMPLE LAYOUTS:



24" O.C. 45° Parallelograms



48" O.C. 60° Triangles



48" O.C. Squares and rectangles
For square and rectangle patterns
please refer to T-BAR LED™ product line
at www.tbarledsmartlight.com



The T-BAR FLEX® is specifically designed for DESIGNFlex™ Ceilings Systems by Armstrong® Ceilings. To learn more about this ceiling system visit www.armstrongceilings.com/designflex

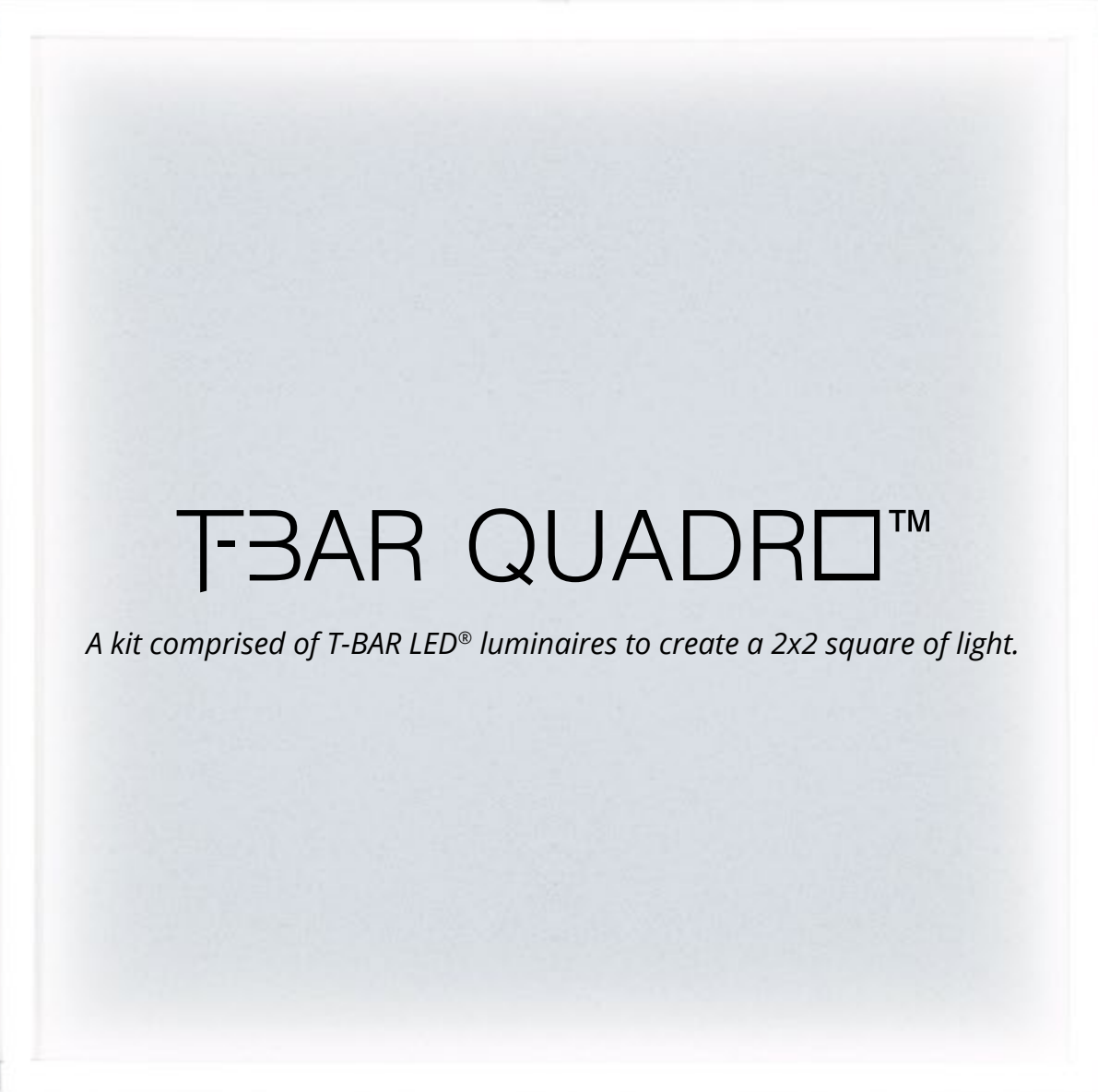
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Benham Architecture - Oklahoma City, OK
Benham, A Haskell Company



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

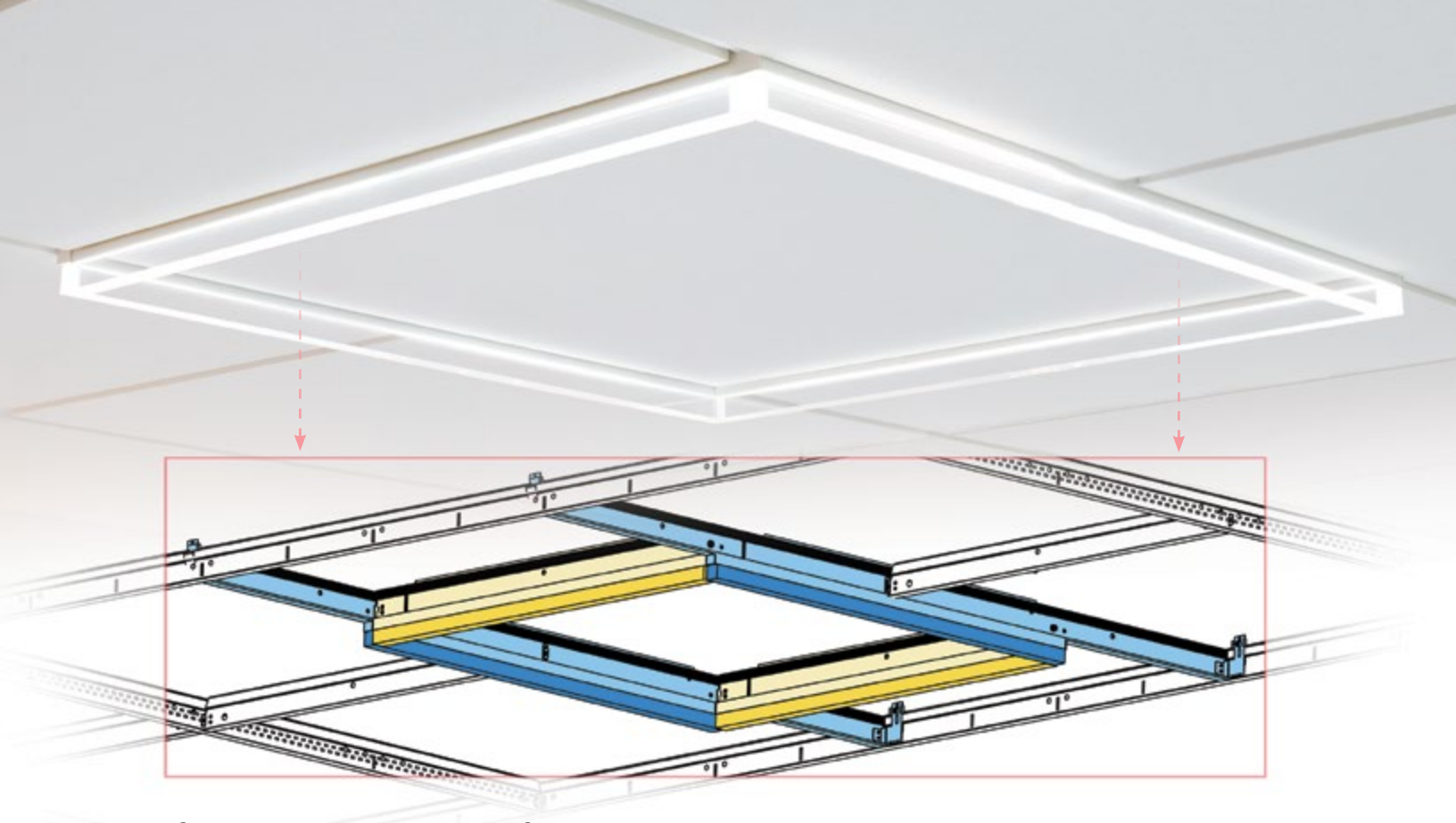
T-BAR QUADRO™

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.

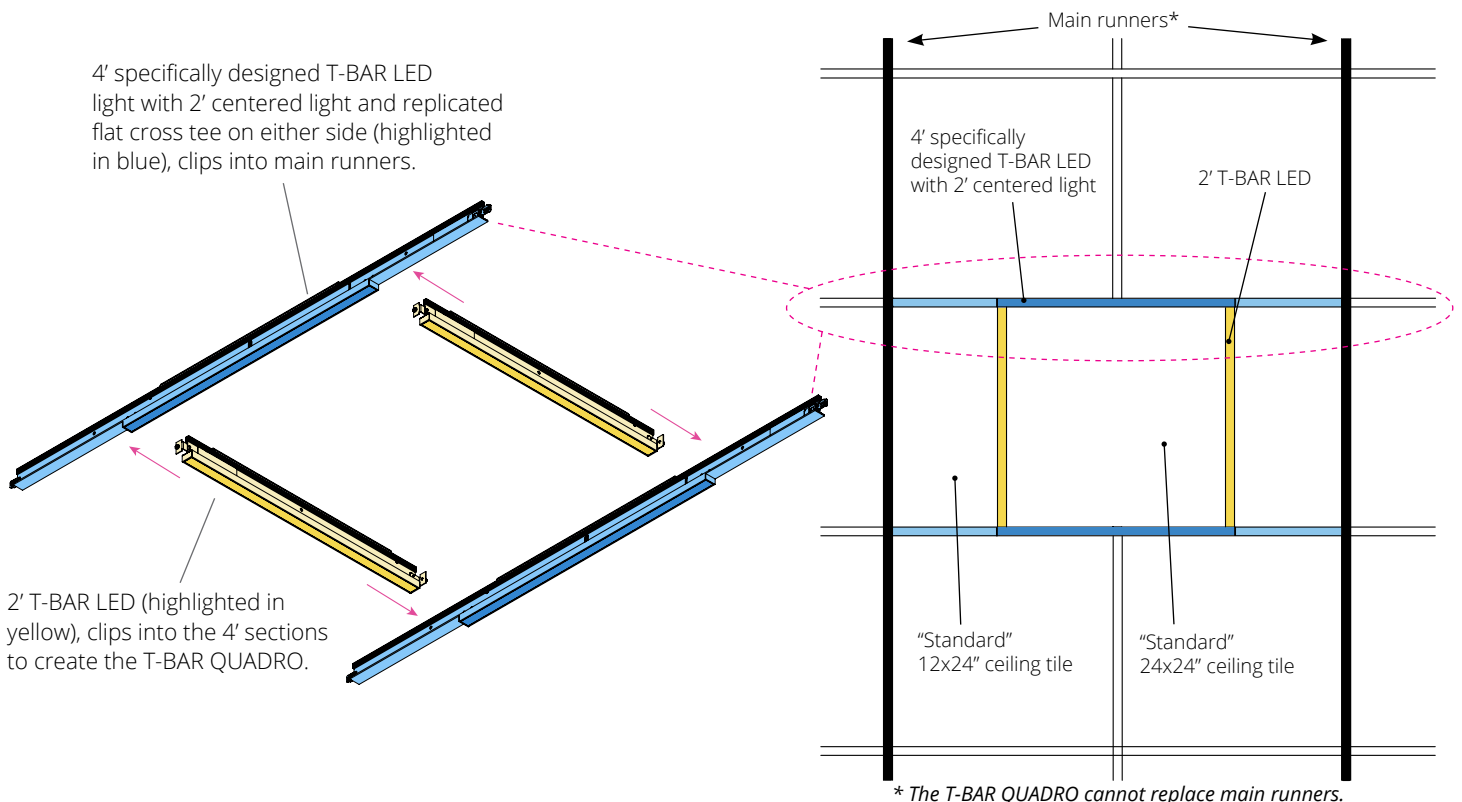
The T-BAR QUADRO is a kit comprised of standard T-BAR LED luminaires to create a 2x2 square of light by utilizing JLC-Tech's patented technology. Available in several offerings of T-BAR LED optics, as well as both 15/16" and 9/16" grid systems, the T-BAR QUADRO has maximum flexibility to complement any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

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



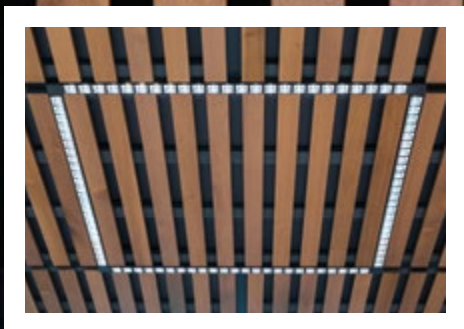
How the T-BAR QUADRO™ works:

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
TBQD = T-BAR QUADRO	HW = 3000K MW = 3500K MN = 4000K HN = 4500K CN = 5000K 90 CRI available, on request.	2Q = 2 x 2 ft Metric 6Q = 60 x 60 cm	24 = 15/16" 15 = 9/16" 15B = 9/16" Bolt Slot	D = Diffusing Lens B = Block Clear Diffusing Lens B2 = Block Frosted Diffusing Lens C2 = Multi-Reflector C2WH = White Multi-Reflector C2BL = Black Multi-Reflector	U = Universal A = Armstrong C = Custom	W = White B = Black C = Custom	UNV = Universal 120-277V 0-10V dimming UNVEM = Universal 120-277V with battery backup	CP = Chicago Plenum IP65 = IP65* POE = 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:

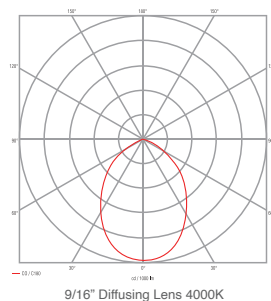
5 years

LISTINGS:

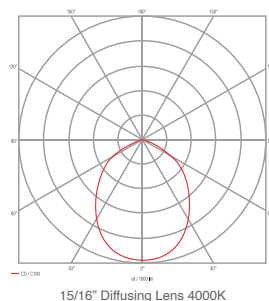
ETL/cETLus CE RoHS. Indoor use only. IC Rated. IP 40, IP 20 (C2 Models).

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

Diffusing

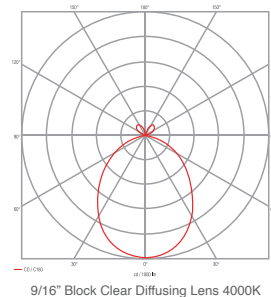


TBQD-MN-XX-15-D-X-X-X
3560 lm
54 lm/W

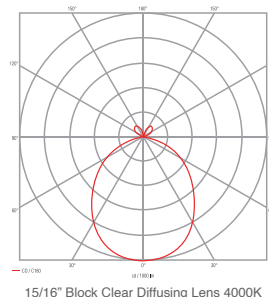


TBQD-MN-XX-24-D-X-X-X
4672 lm per foot
75 lm/W

Block Clear Diffusing

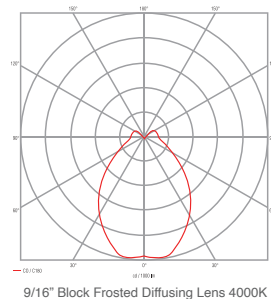


TBQD-MN-XX-15-B-X-X-X
3504 lm
56 lm/W

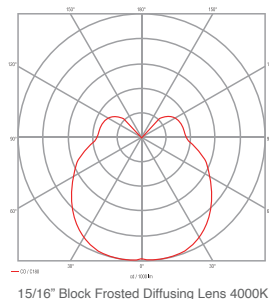


TBQD-MN-XX-24-B-X-X-X
4512 lm
72 lm/W

Block Frosted Diffusing



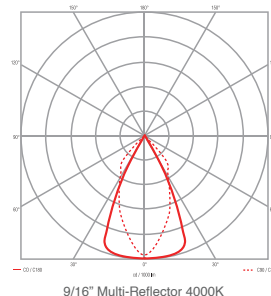
TBQD-MN-XX-15-B2-X-X-X
3680 lm
59 lm/W



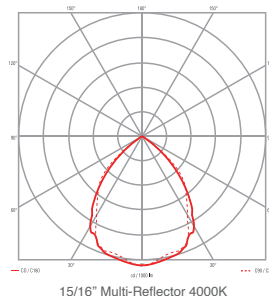
TBQD-MN-XX-24-B2-X-X-X
4688 lm
75 lm/W

Multi-Reflector (metalized finish)

*C2WH and C2BL IES files
available on www.jlc-tech.com

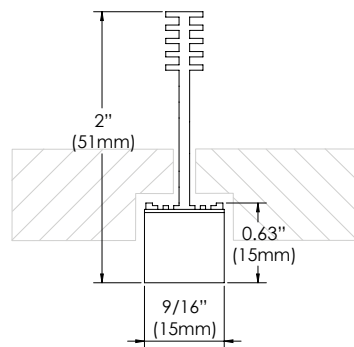


TBQD-MN-XX-15-C2-X-X-X
6152 lm
98 lm/W

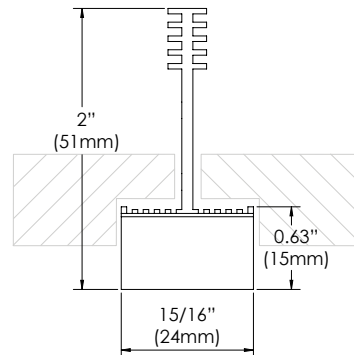


TBQD-MN-XX-24-C2-X-X-X
6272 lm
100 lm/W

**Complete photometric info and IES files are available for download at www.jlc-tech.com*

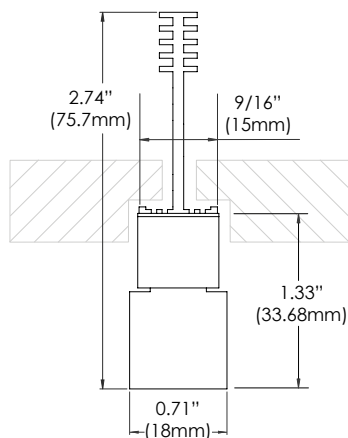
Profile Dimensions *(Compatible with Tegular and Lay-in tiles)*

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

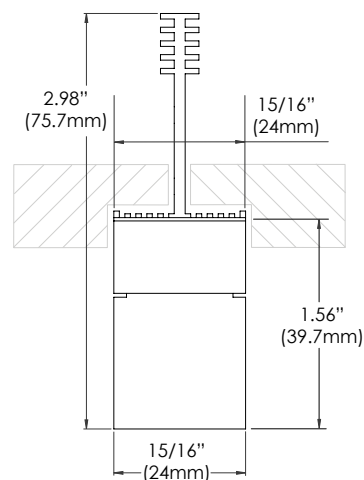


15/16" Diffusing Lens/Multi-Reflector
TBQD-XX-XX-24-D/C2-X-X-X

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



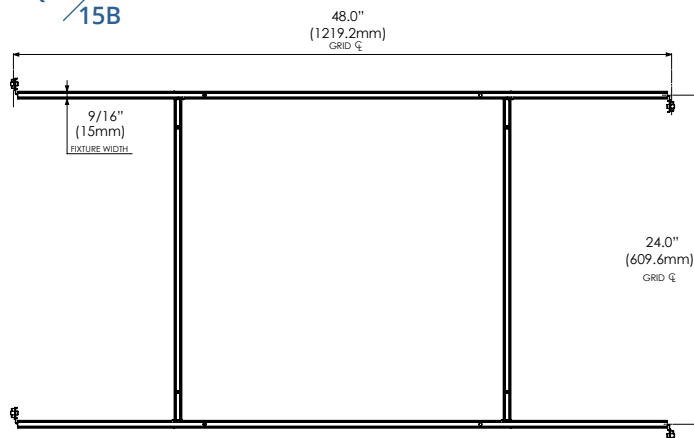
9/16" Block Lens
TBQD-XX-XX-15-B/B2-X-X-X



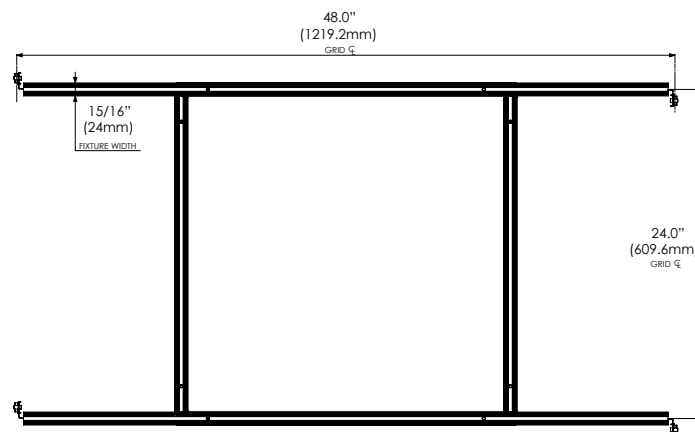
15/16" Block Lens
TBQD-XX-XX-24-B/B2-X-X-X

Dimensions

2Q 15/15B

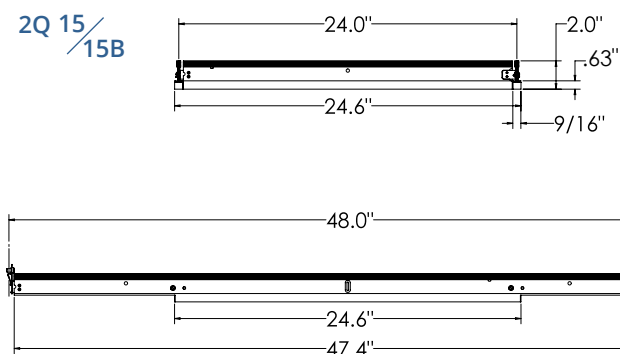


2Q 24

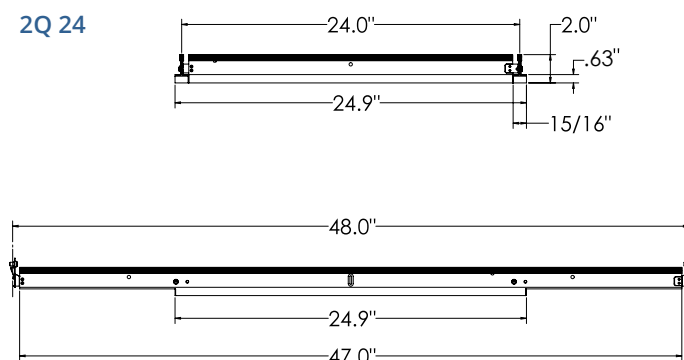


Diffusing Lens/Multi-Reflector

2Q 15/15B

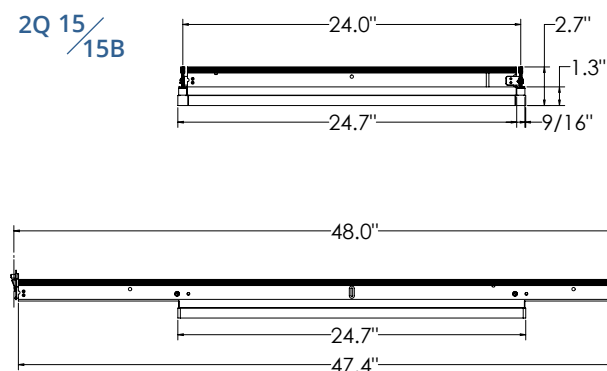


2Q 24

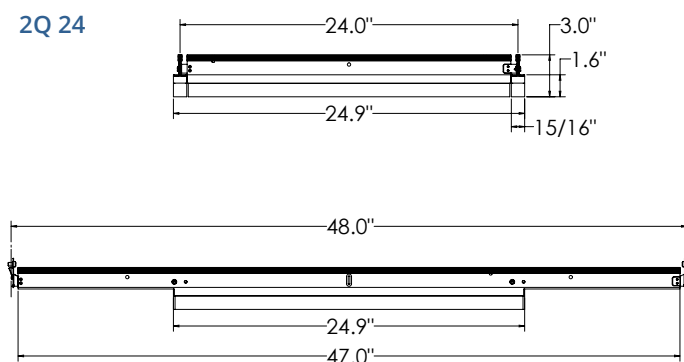


Block Clear/Block Frosted Diffusing Lens

2Q 15/15B



2Q 24





Cafeteria

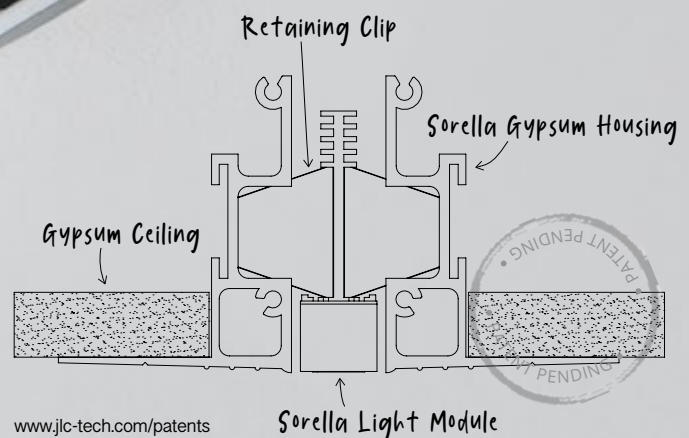


Sorella™

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

Sorella™

by JLC • tech



www.jlc-tech.com/patents

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

2. Specify Housing

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

*Not available in C2 Model
 **Not available in 9/16"

www.jlc-tech.com/patents

 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)



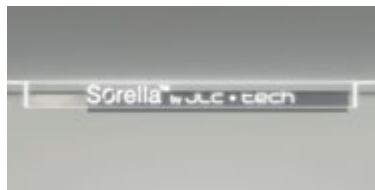
Multi-Reflector (C2BL)



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.

WARRANTY:

5 years

LISTINGS:

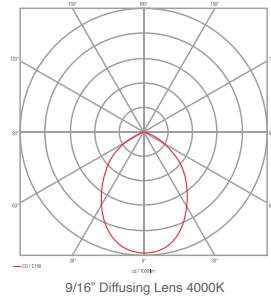
ETL/cETLus CE RoHS. Indoor use only.
 IC Rated. IP 40, IP 20 (C2 Models).

MADE IN USA

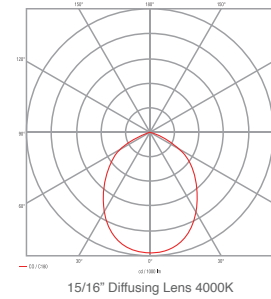
JLC-Tech

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

Diffusing

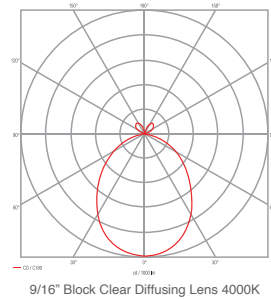


SOR-MN-X-15-D-X
445 lm per foot
54 lm/W

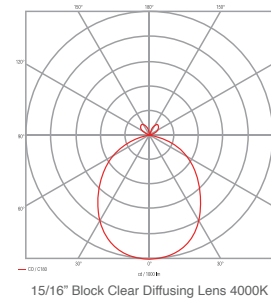


SOR-MN-X-24-D-X
584 lm per foot
75 lm/W

Block Clear Diffusing

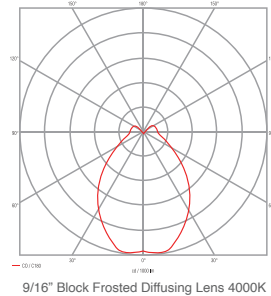


SOR-MN-X-15-B-X
438 lm per foot
56 lm/W

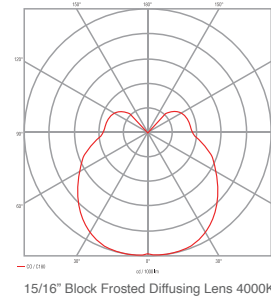


SOR-MN-X-24-B-X
564 lm per foot
72 lm/W

Block Frosted Diffusing



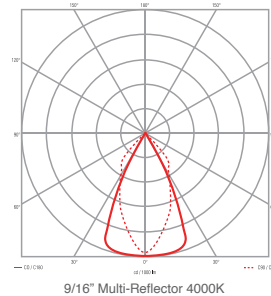
SOR-MN-X-15-B2-X
460 lm per foot
59 lm/W



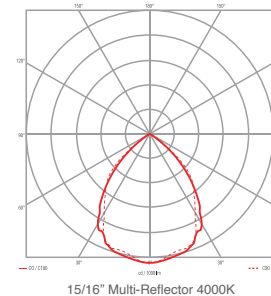
SOR-MN-X-24-B2-X
586 lm per foot
75 lm/W

Multi-Reflector
(metalized finish)

*C2WH and C2BL IES files
available on www.jlc-tech.com

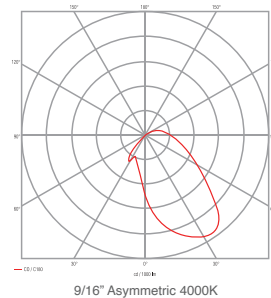


SOR-MN-X-15-C2-X
769 lm per foot
98 lm/W

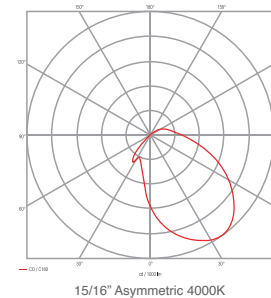


SOR-MN-X-24-C2-X
784 lm per foot
100 lm/W

Asymmetric



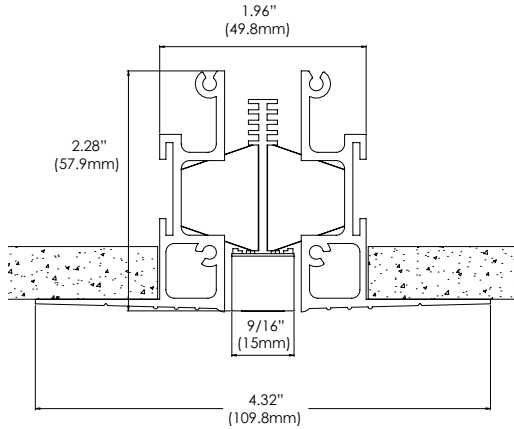
SOR-MN-X-15-A2-X
484 lm per foot
62 lm/W



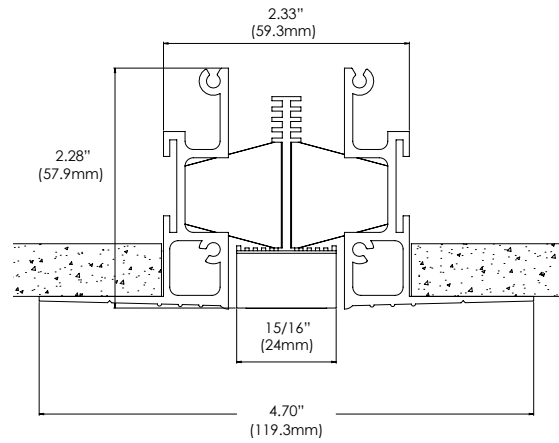
SOR-MN-X-24-A2-X
582 lm per foot
75 lm/W

*Complete photometric info and IES files are available for download at www.jlc-tech.com

Profile Dimensions for Mud Flange

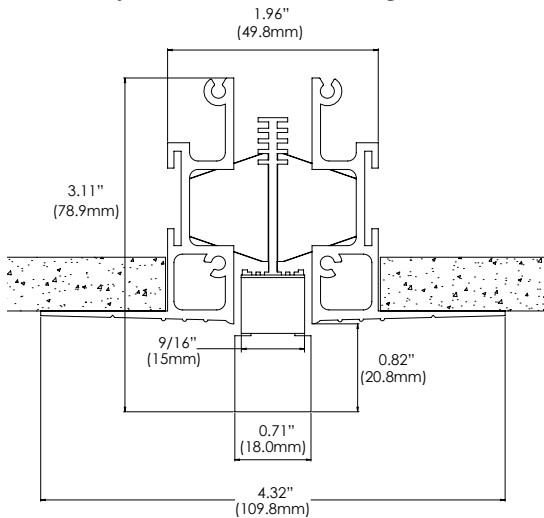


9/16" Diffusing Lens/Multi-Reflector
SOR-XX-X-15-D/C2-X + SORH-X-15-MF

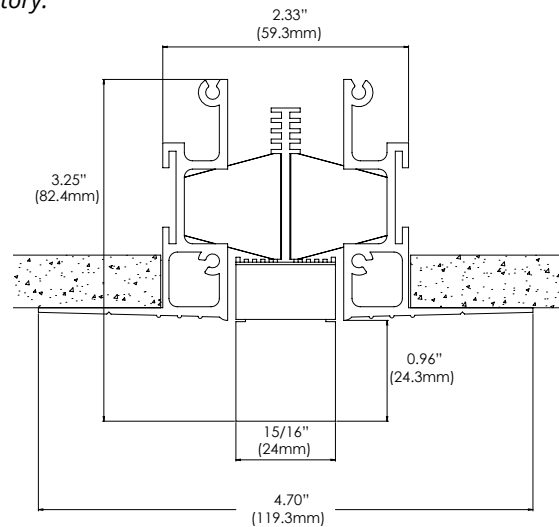


15/16" Diffusing Lens/Multi-Reflector
SOR-XX-X-24-D/C2-X + SORH-X-24-MF

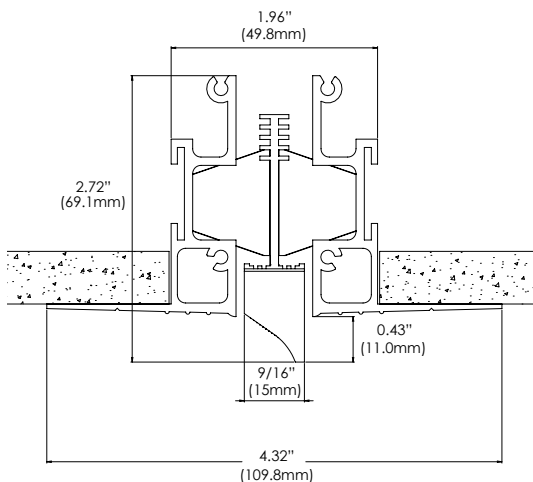
Clear block and frosted block variable heights 1/2" – 4" available, consult factory.



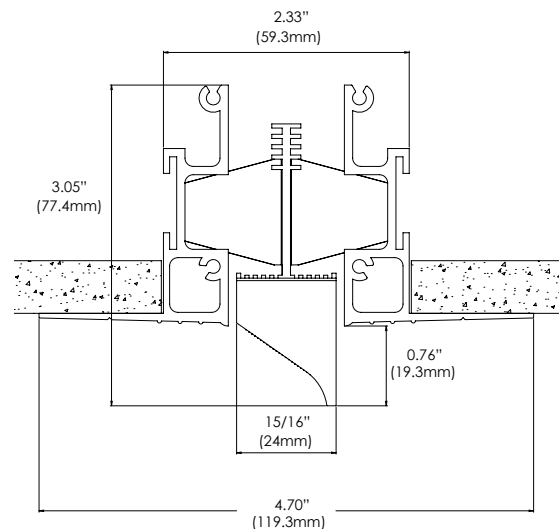
9/16" Block Lens
SOR-XX-X-15-B/B2-X + SORH-X-15-MF



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

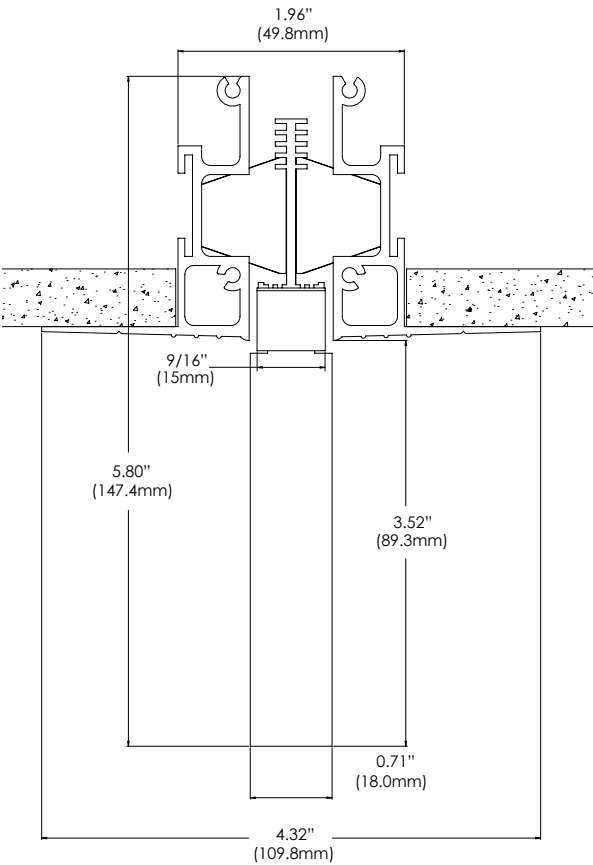


9/16" Asymmetric Lens
SOR-XX-X-15-A2-X + SORH-X-15-MF

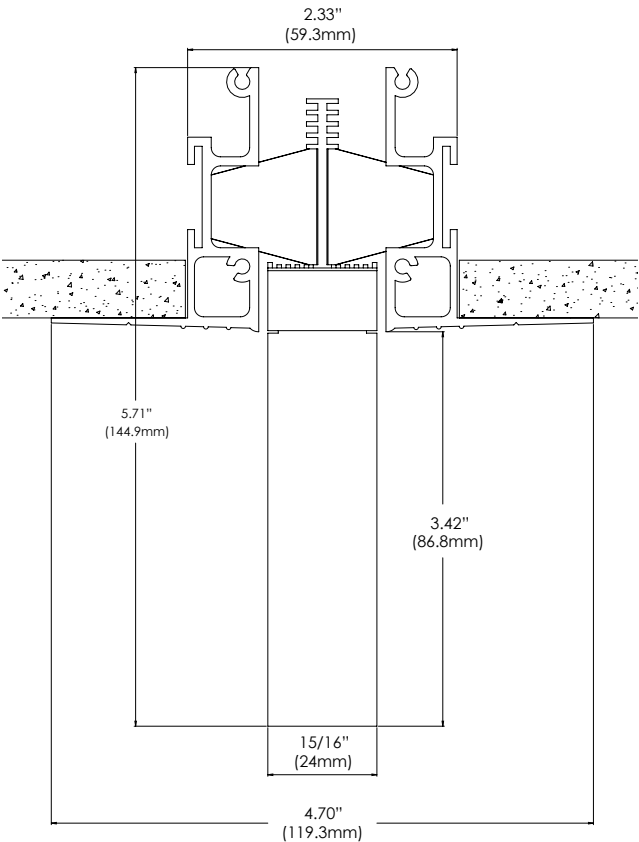


15/16" Asymmetric Lens
SOR-XX-X-24-A2-X + SORH-X-24-MF

Profile Dimensions for Mud Flange

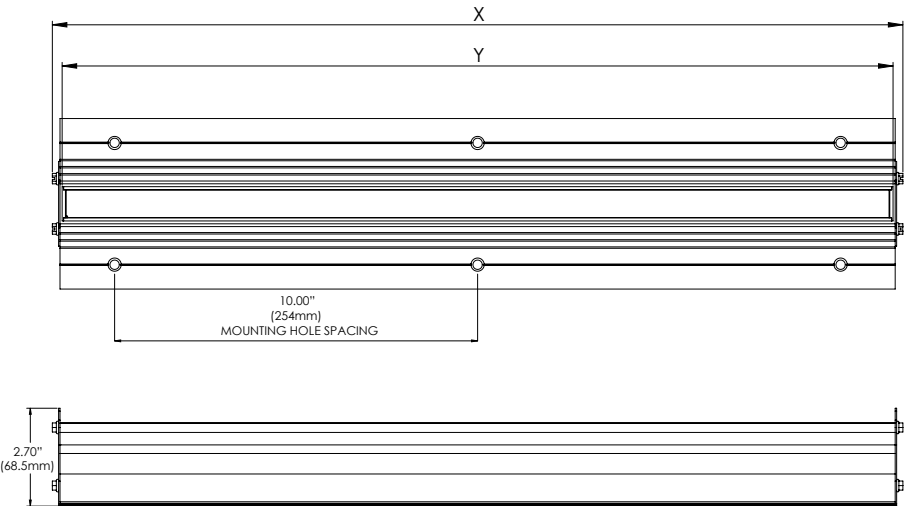


9/16" Signage
SOR-XX-X-15-S-X + SORH-X-15-MF



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

Length Dimensions for Mud Flange

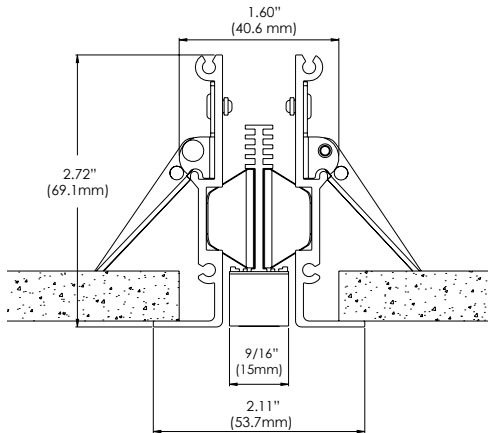


*For gypsum cut-out dimensions, refer to installation instruction.

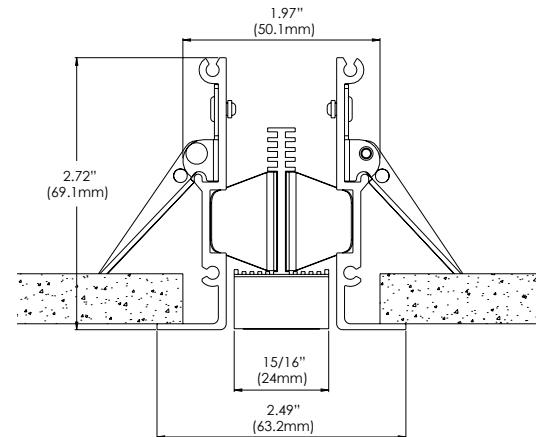
Length	Aperture	X	Y
1 = 1ft	15 = 9/16"	12.1"	11.6"
2 = 2ft	15 = 9/16"	23.4"	22.9"
3 = 3ft	15 = 9/16"	34.8"	34.2"
4 = 4ft	15 = 9/16"	46.1"	45.6"

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

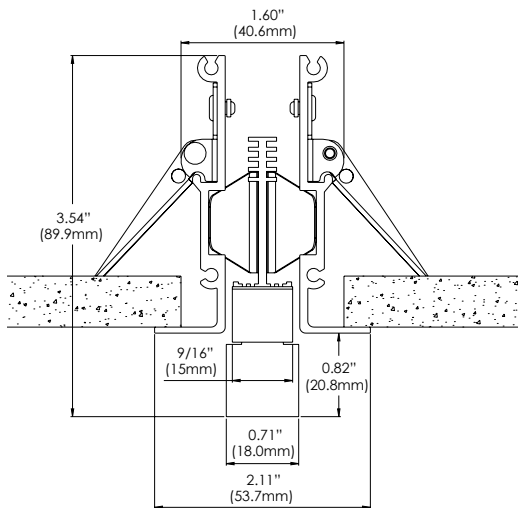


9/16" Diffusing Lens/Multi-Reflector
SOR-XX-X-15-D/C2-X + SORH-X-15-FL

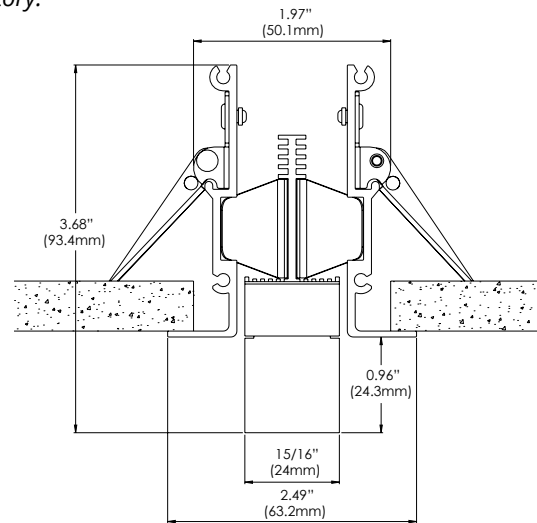


15/16" Diffusing Lens/Multi-Reflector
SOR-XX-X-24-D/C2-X + SORH-X-24-FL

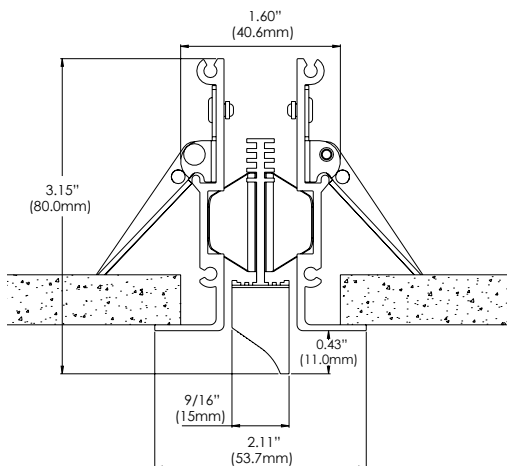
Clear block and frosted block variable heights 1/2" – 4" available, consult factory.



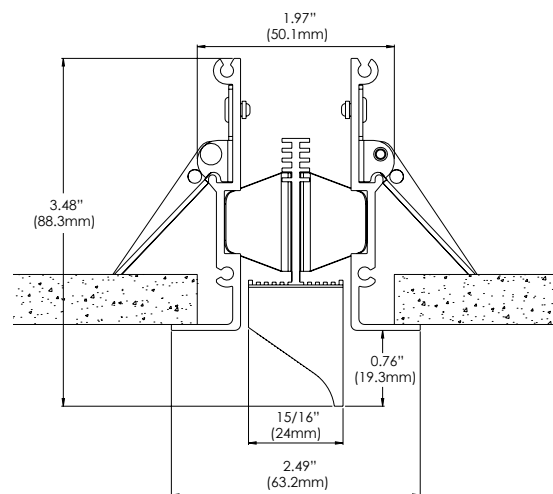
9/16" Block Lens
SOR-XX-X-15-B/B2-X + SORH-X-15-FL



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

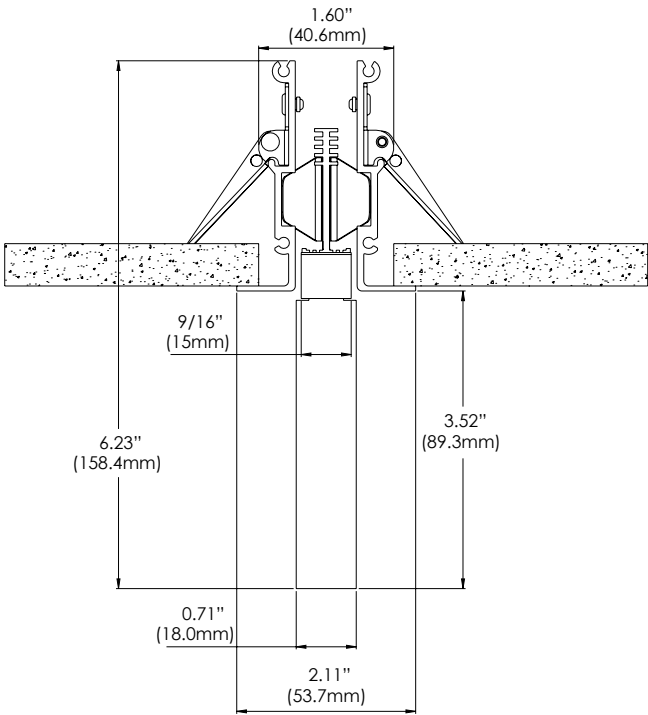


9/16" Asymmetric Lens
SOR-XX-X-15-A2-X + SORH-X-15-FL

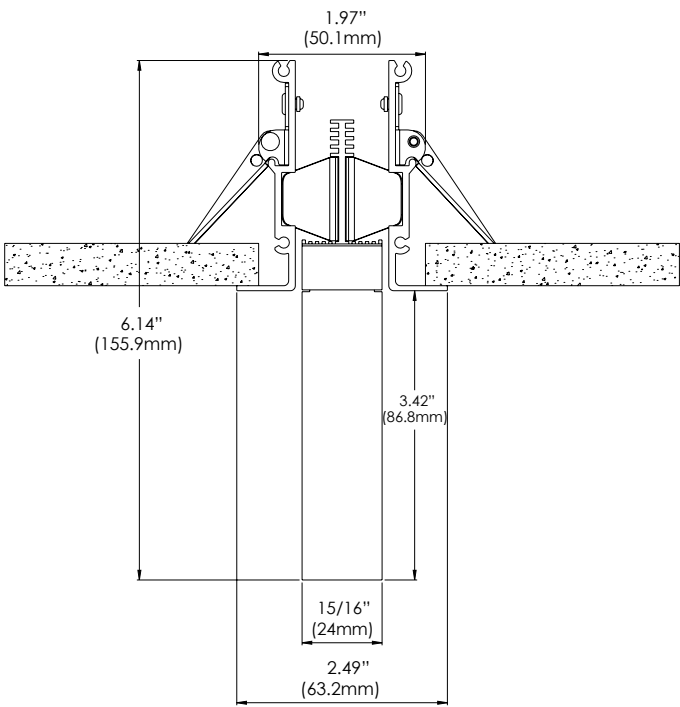


15/16" Asymmetric Lens
SOR-XX-X-24-A2-X + SORH-X-24-FL

Profile Dimensions for Flange Trim

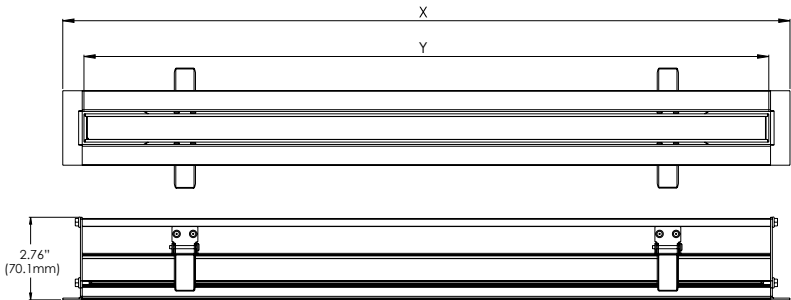


9/16" Signage
SOR-XX-X-15-S-X + SORH-X-15-FL



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.*

Housing Code	X Dimension (IN)	Y Dimension (IN)
SORH-1-15-FL	13.0	11.6
SORH-1-24-FL	13.0	11.6
SORH-2-15-FL	24.3	22.9
SORH-2-24-FL	24.3	22.9
SORH-3-15-FL	35.6	34.2
SORH-3-24-FL	35.6	34.2
SORH-4-15-FL	47	45.6
SORH-4-24-FL	47	45.6



T-BAR LED[®] X_{SERIES}

A line voltage version of the T-BAR LED[®] offering enhanced efficiency and a choice of lumen outputs.



T-BAR LED[®] X_{SERIES}

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	B = Block Clear Diffusing Lens	A = Armstrong	B = Black	POE = Power over Ethernet**	
	MN = 4000K	HO = High	5 = 5 ft	15B = 9/16 Bolt Slot	B2 = Block Frosted Diffusing Lens	C = Custom	C = Custom		
	HN = 4500K		Metric	24C = Partially Concealed	DW = Diffused White Lens				
	CN = 5000K 90 CRI available on request.	Custom lumen outputs available, consult factory.	6 = 60 cm 12 = 120 cm						Optional EM Battery Kit available (sold separately).

www.jlc-tech.com/patents

*For geometric shapes using T-BAR LED X-Series, consult factory.

**For PoE, consult factory

Diffusing Lens (D)**NOTES:**

T-BAR LED X-SERIES is a high efficiency LED fixture designed specifically for integration into suspension ceiling systems. 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 aluminum extruded body, steel junction box and mounting clips, ABS end caps, high transmitting acrylic PMMA lens.

ELECTRIC:

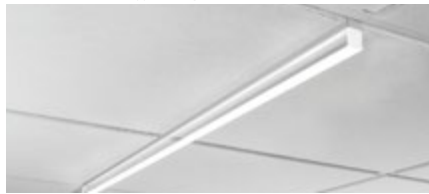
Universal input voltage of 120-277Vac. Junction box installed on fixture with integral driver for connection to line voltage and 0-10V dimming system, (dimnable to 1%). For EM Battery Kit order separately.

WARRANTY:

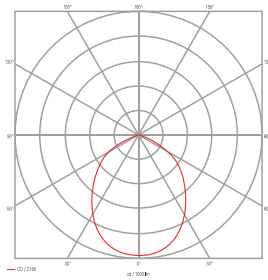
5 years limited warranty. For complete warranty terms, please visit our website.

LISTINGS:

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

Block Clear Diffusing Lens (B)*Block Frosted Diffusing Lens (B2)**Diffused White Lens (DW)*

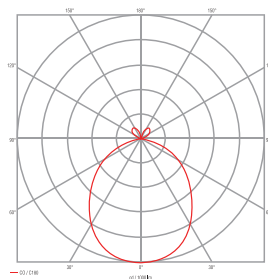
Photometrics CRI = >82

L₈₀ > 60K hrs

15/16" Diffusing Lens 4000K

Diffusing Lens

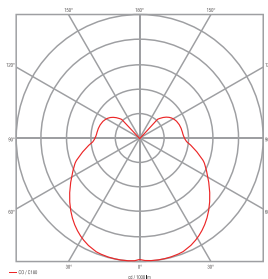
Code Selection	Output (lm/ft)	Power (watts/ft)	Efficacy (lm/W)
LO = Low	389	3.3	118
MO = Medium	595	5.2	114
HO = High	1038	9.5	109



15/16" Block Clear Diffusing Lens 4000K

Block Clear Diffusing Lens

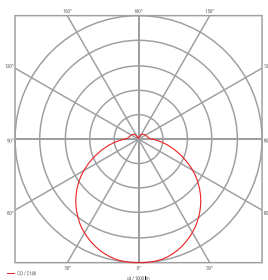
Code Selection	Output (lm/ft)	Power (watts/ft)	Efficacy (lm/W)
LO = Low	370	3.3	112
MO = Medium	564	5.2	109
HO = High	995	9.5	105



15/16" Block Frosted Diffusing Lens 4000K

Block Frosted Diffusing Lens

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



15/16" Diffused White Lens 4000K

Diffused White Lens

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

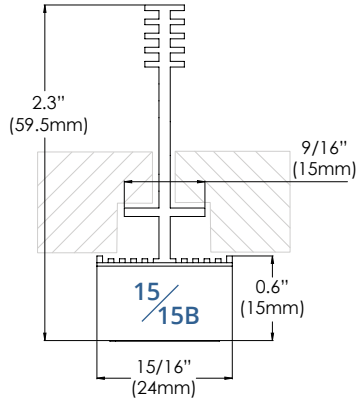
*Complete photometric info and IES files are available for download at www.jlc-tech.com

JLC-Tech LLC | Pembroke, MA – USA | info@jlc-tech.com | www.jlc-tech.com



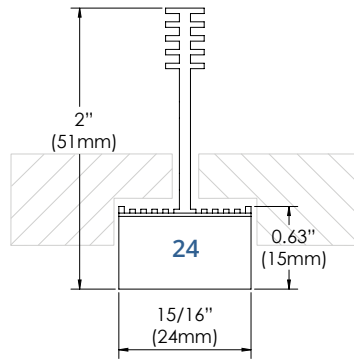
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Profile Dimensions (Compatible with Tegular, Lay-in and Partially Concealed tiles)



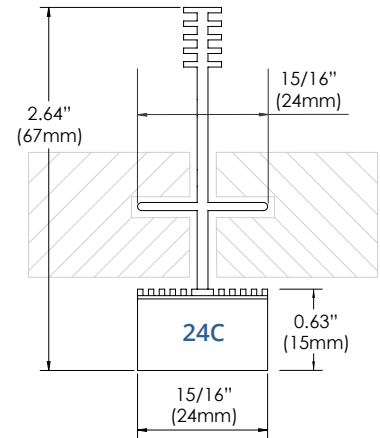
9/16" Diffusing Lens

TBLX-XX-XX-X-15/15B-D-X-X-UNV



15/16" Diffusing Lens

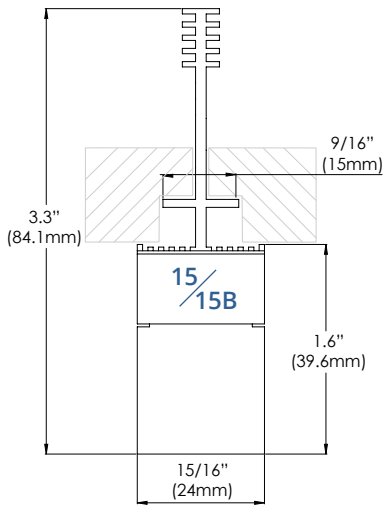
TBLX-XX-XX-X-24-D-X-X-UNV



15/16" Concealed Diffusing Lens

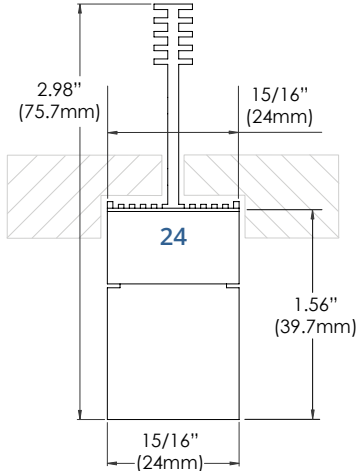
TBLX-XX-XX-X-24C-D-X-X-UNV

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



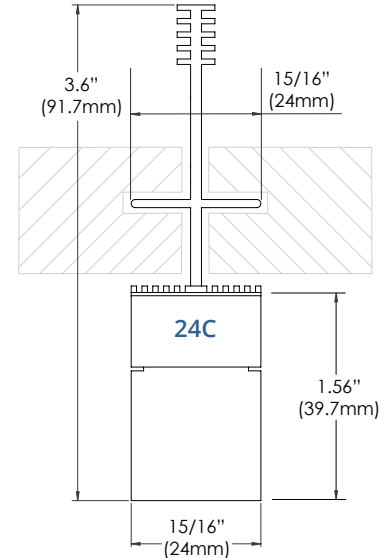
9/16" Block Lens

TBLX-XX-XX-X-15/15B-B/B2-X-X-UNV



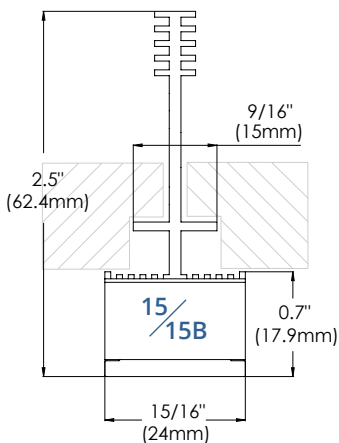
15/16" Block Lens

TBLX-XX-XX-X-24-B/B2-X-X-UNV



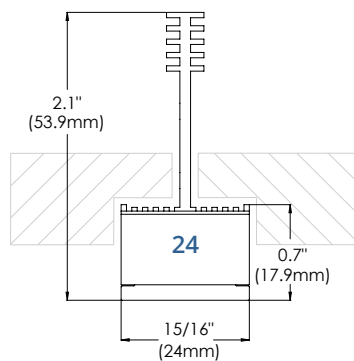
15/16" Concealed Block Lens

TBLX-XX-XX-X-24C-B/B2-X-X-UNV



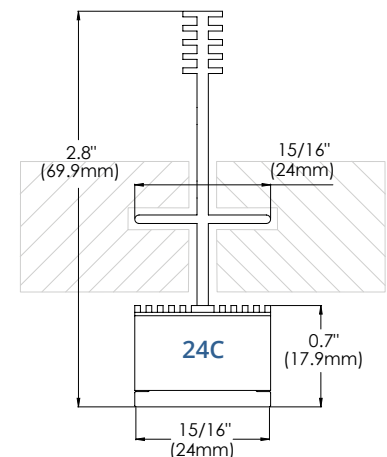
9/16" Diffused White Lens

TBLX-XX-XX-X-15/15B-DW-X-X-UNV



15/16" Diffused White Lens

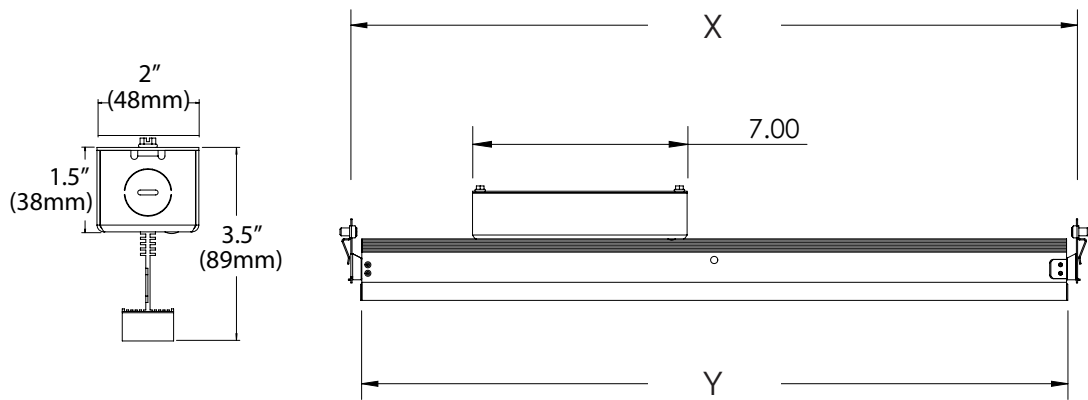
TBLX-XX-XX-X-24-DW-X-X-UNV



15/16" Concealed Diffused White Lens

TBLX-XX-XX-X-24C-DW-X-X-UNV

Length Dimensions

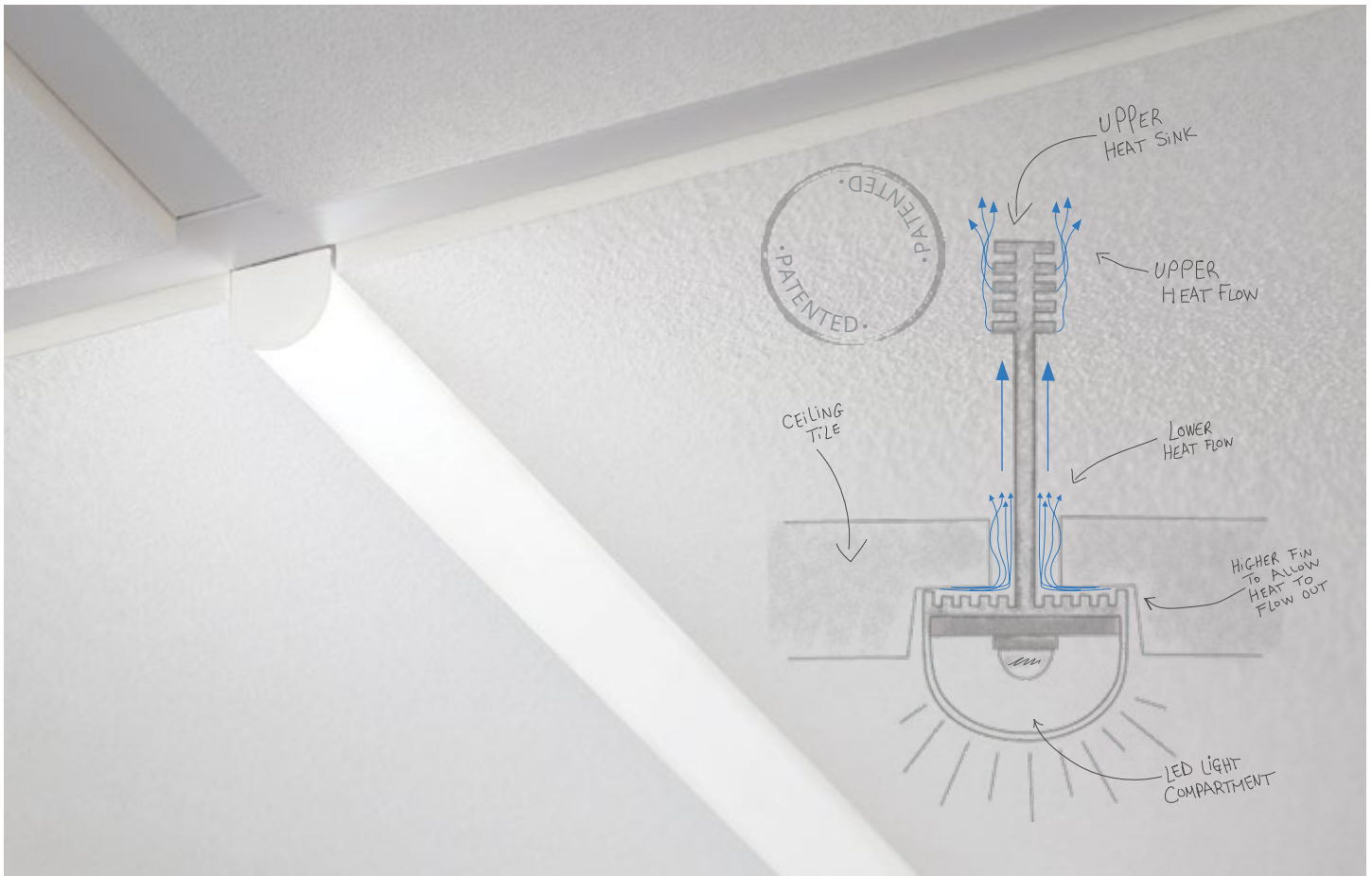


Size	Grid Type	X	Y	Size	Grid Type	X	Y	Size	Grid Type	X	Y
2 = 2ft	15/15B = 9/16"	24"	23.4"	2 = 2ft	24 = 15/16"	24"	23"	2 = 2ft	24C = 15/16"	24"	23.7"
4 = 4ft	15/15B = 9/16"	48"	47.4"	4 = 4ft	24 = 15/16"	48"	47"	4 = 4ft	24C = 15/16"	48"	47.8"
5 = 5ft	15/15B = 9/16"	60"	59.4"	5 = 5ft	24 = 15/16"	60"	59"				

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®

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



T-BAR ECO[®] 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

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.



Van Ness Building – Boston, MA
Samuels & Associates

T-BAR ECO®
Low Watts High Lumens

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

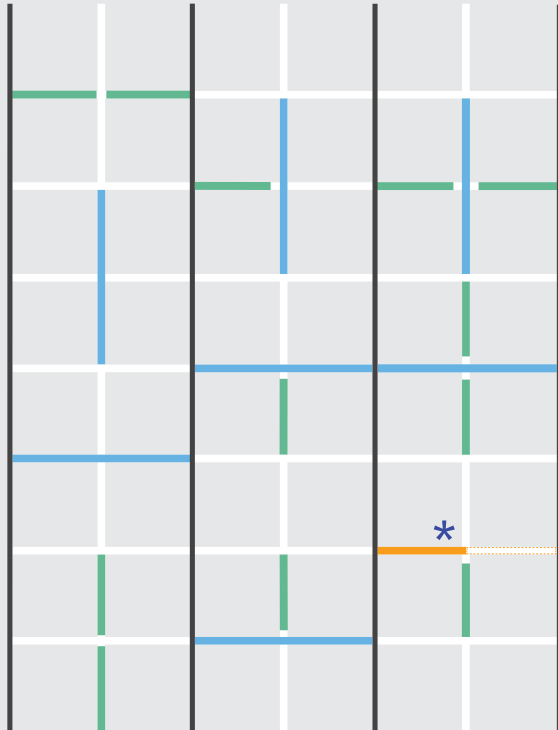
- Lights occupy the grid only, optimizing the ceiling's ability to enhance occupant well-being
- No interrupted tiles means maximizing tile's acoustical qualities
- Simplifies the disinfecting and cleaning of ceiling surfaces
- Uniform ceiling surface equals improved light reflectance



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

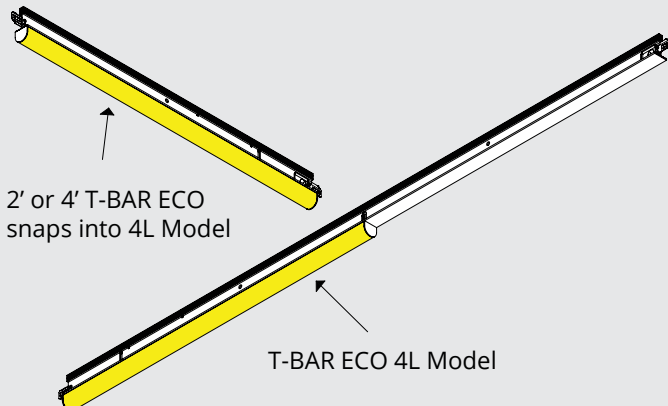
4L® Model T-BAR ECO

Possible positions for
T-BAR ECO light modules

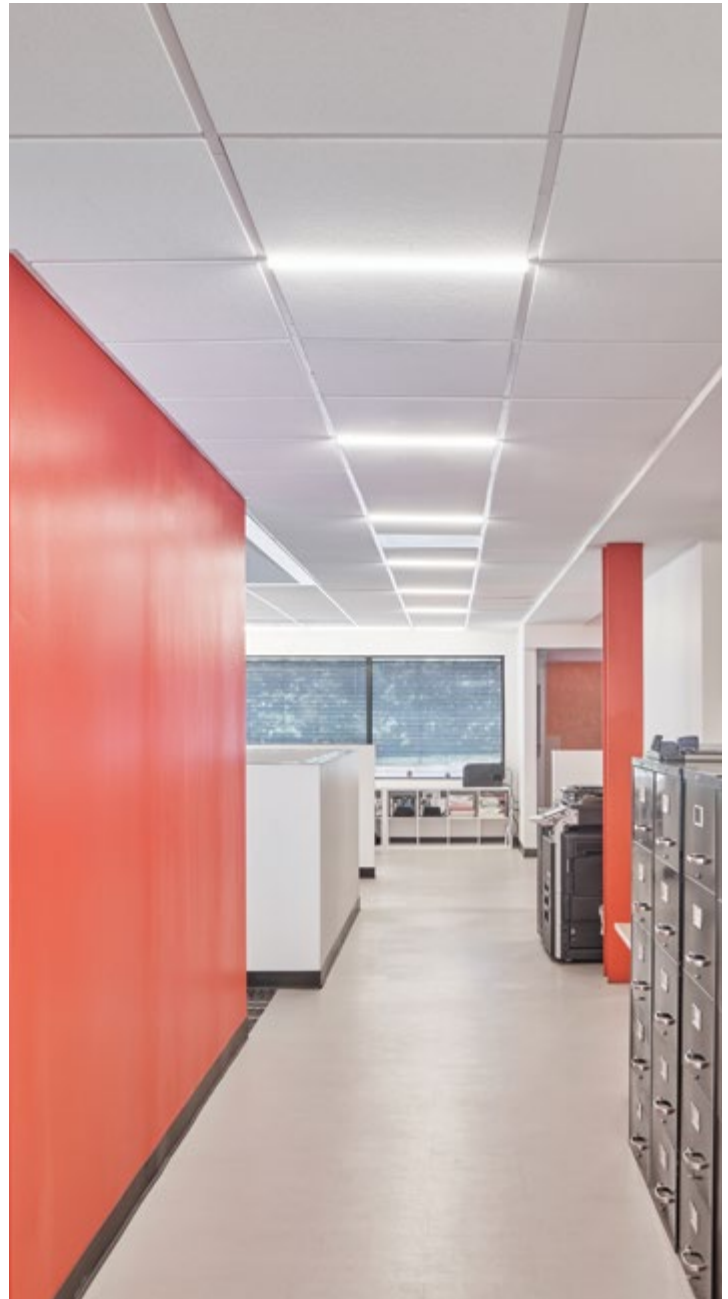
One-piece main runner cannot
be replaced by light modules

* 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.



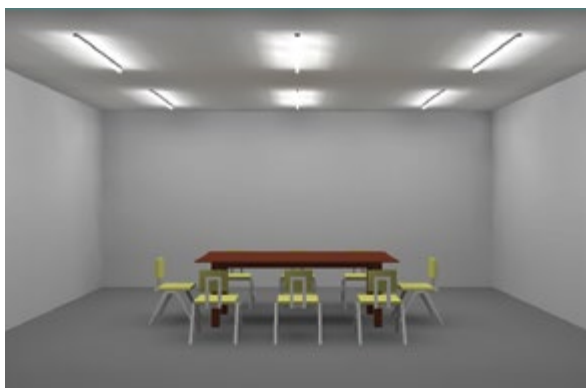
Mounting Configurations



Weigand Associates, Inc. – Germantown, MD

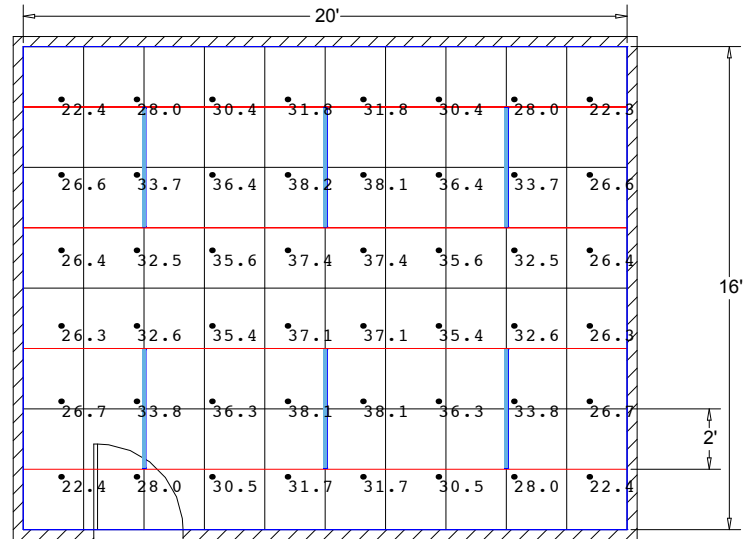


90° configurations are possible by using our 4L® Model



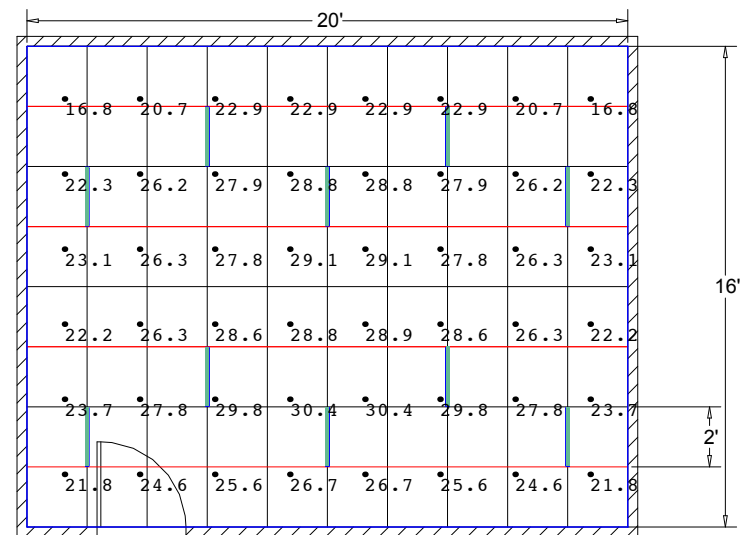
Room Dimension: **16x20 feet (320 S.F.)**
 Ceiling Height: **9 feet**
 Average foot candle achieved at desk level: **31.59**
 Power Density: **0.33 W/sq. ft.**
 Quantity of product: **6 pcs. TBECOH-MN-4-24-DW-X-UNV**

Symmetric configuration



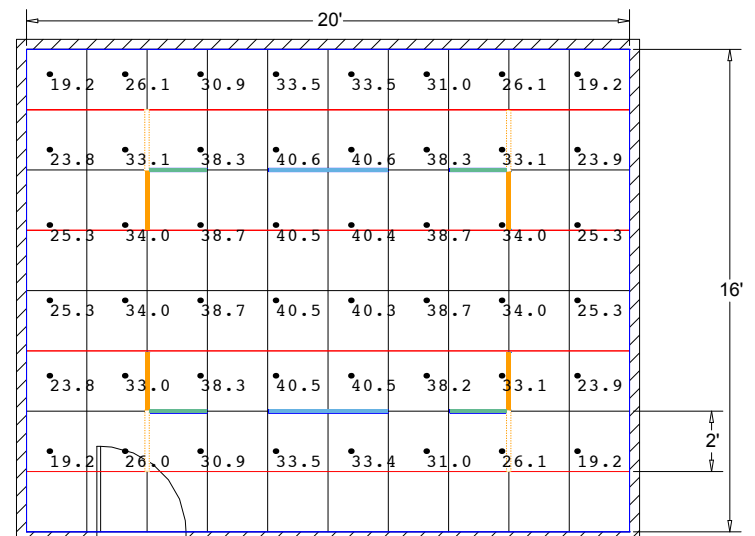
Room Dimension: **16x20 feet (320 S.F.)**
 Ceiling Height: **9 feet**
 Average foot candle achieved at desk level: **25.46**
 Power Density: **0.29 W/sq. ft.**
 Quantity of product: **10 pcs. TBECOH-MN-2-24-DW-X-UNV**

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

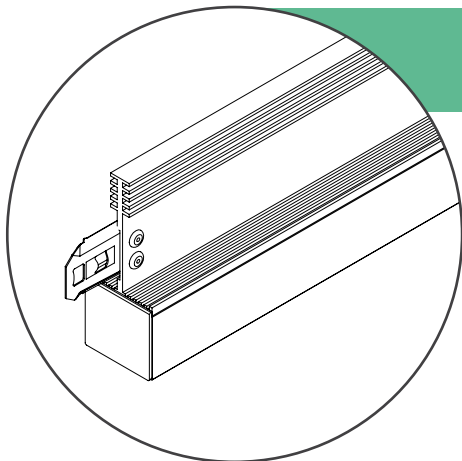
4L™ Model configuration



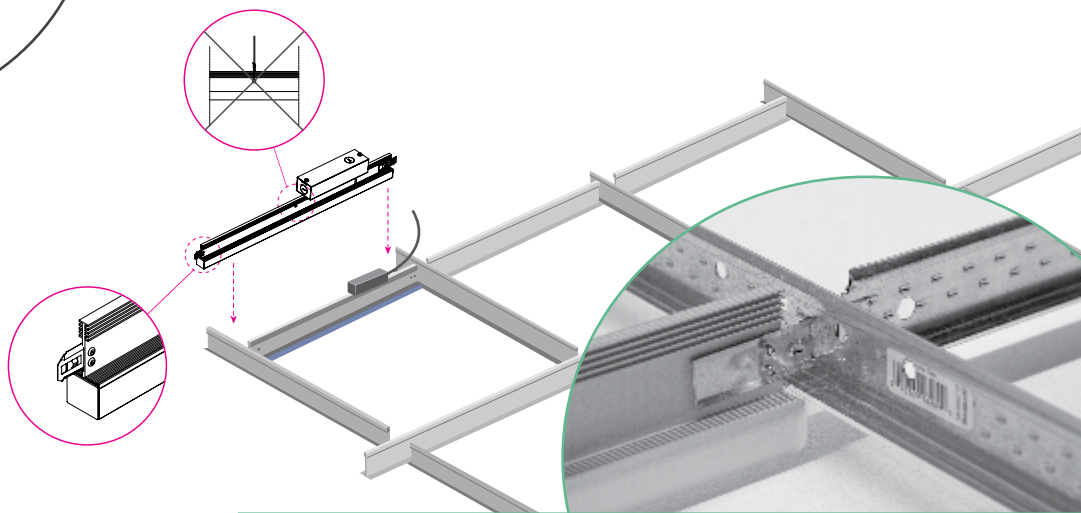
Two Easy Installations for Suspended Ceiling Systems



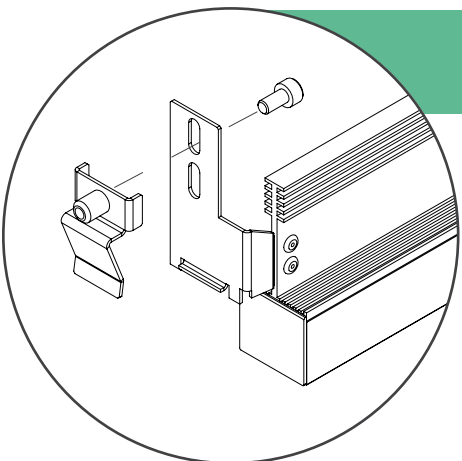
Compatible Clip



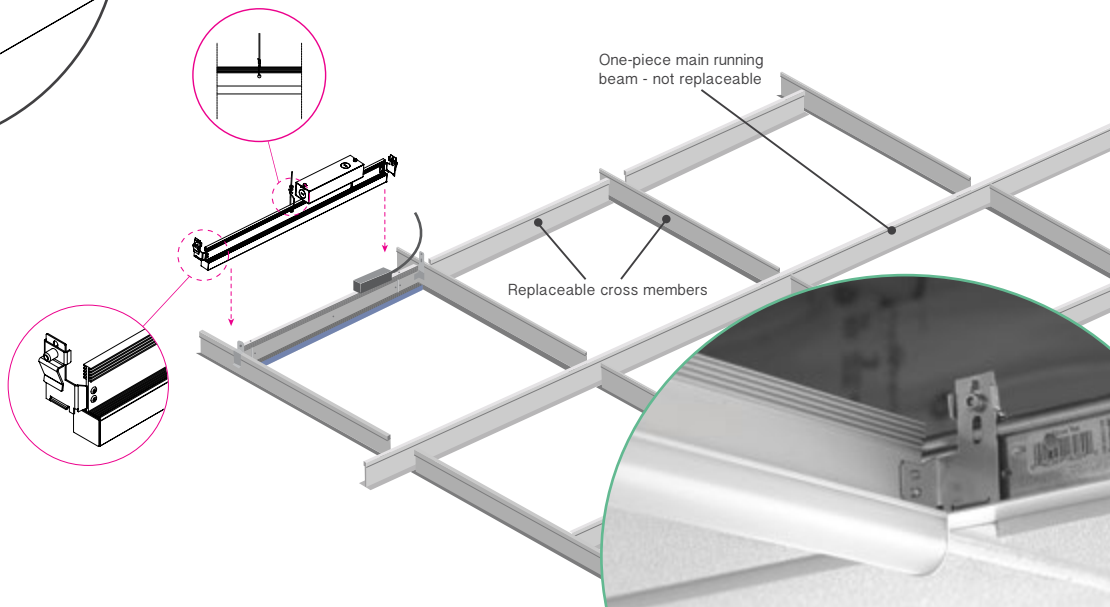
Specifically designed by Armstrong® Ceiling Solutions for JLC-Tech, the X-LED clip is mounted at each end for easy installation into Armstrong 15/16" ceiling suspension systems, allowing the fixture to become a part of the certified ceiling assembly, eliminating the need for support wires. T-BAR ECO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



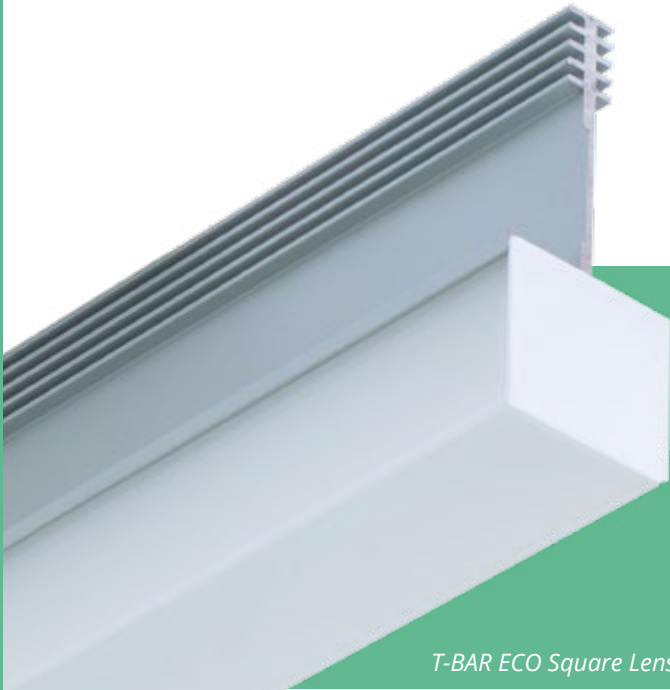
Universally Compatible Clip



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

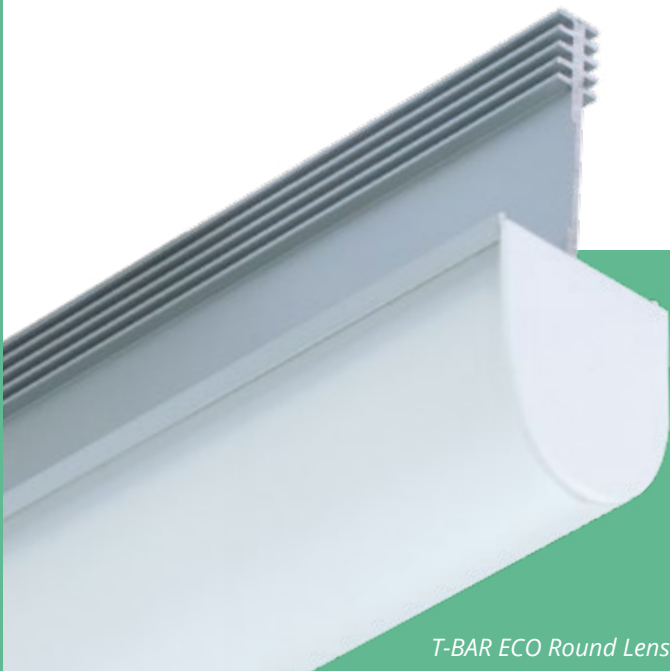


T-BAR ECO Square Lens



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[®]

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.



Weigand Associates, Inc. – Germantown, MD

Product Name	LED/K Color	Grid Size	Grid Type	Optic	Mounting Clips	Driver	Options
TBECOH = T-BAR ECO High Output 120-277V	HW = 3000K MW = 3500K MN = 4000K	2 = 2 ft 4 = 4 ft 4L	24 = 15/16"	DW = Diffuse White Round DWS = Diffuse White Square	U = Universal A = Armstrong	UNV = Universal 120-277V 0-10V dimming POE = Power over Ethernet*	CP = Chicago Plenum
TBECOL = T-BAR ECO Low Output 120-277V	CN = 5000K 90 CRI available, on request.	6 = 60 cm 12 = 120 cm 12L	Metric				Optional EM Battery Kit available (sold separately).

www.jlc-tech.com/patents

*For PoE, consult factory

CRI = >82

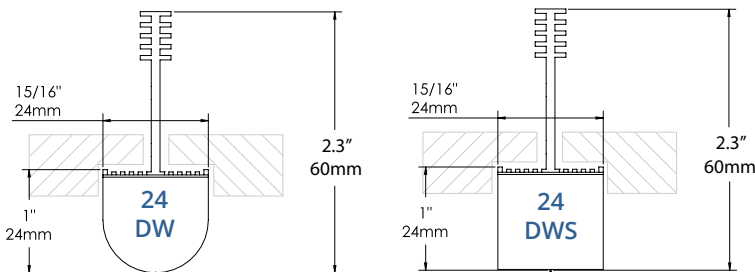
$L_{80} > 60K$ hrs

Type	Lumens*	Watts	lm/W*	lm/ft*
TBECOL-2	949	6.4	147	474
TBECOL-4	1898	12.5	152	474
TBECOH-2	1328	9.4	140	664
TBECOH-4	2669	17.9	149	667

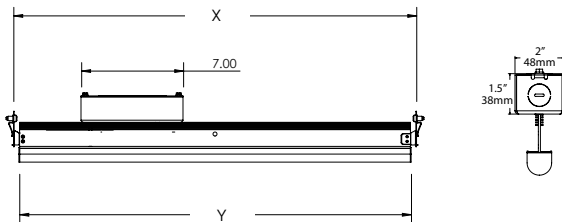
*4000K

Profile Dimensions

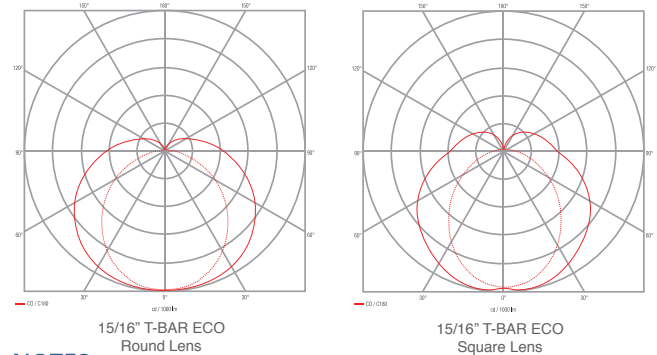
(Compatible with Tegular and Lay-in tiles)



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:

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. Mounted junction box includes driver and compartment for AC input direct wiring and dimming connection. Fixture must be installed in accordance with local electrical codes.

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™ 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. 90% LED lumen maintenance at 60,000hrs ($L_{80} > 60k$ hrs) For EM Battery/Driver 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.



Weigand Associates, Inc. – Germantown, MD

T-BAR ECO[®] 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

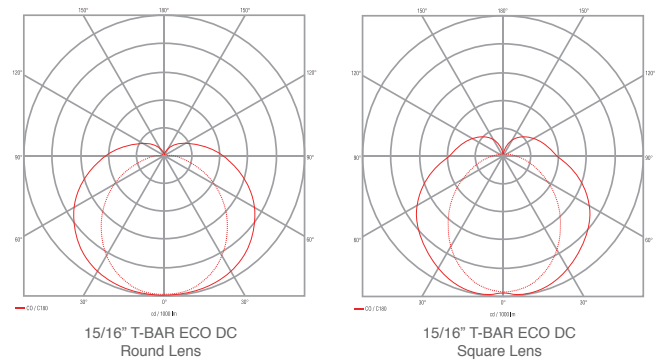
Product Name	LED/K Color	Grid Size	Grid Type	Optic	Mounting Clips
TBECODC = T-BAR ECO 24V DC	HW = 3000K MW = 3500K MN = 4000K	2 = 2 ft 4 = 4 ft 4L Metric 6 = 60 cm 12 = 120 cm 12L	24 = 15/16"	DW = Diffuse White Round DWS = Diffuse White Square	U = Universal A = Armstrong

www.jlc-tech.com/patents

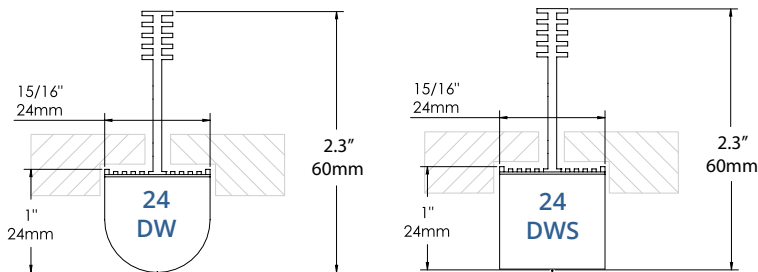
Optional EM Battery/Driver Kit available (sold separately).

CRI = >80 L₈₀ > 60K hrs

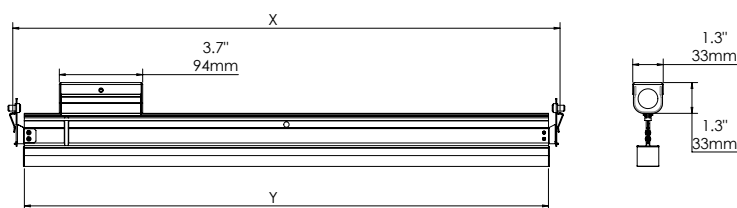
Type	Lumens*	Watts	lm/W*	lm/ft*
TBECODC-2	1237	11.2	110	619
TBECODC-4	2474	22.4	110	619

***3500K**

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:

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. Fixture must be installed in accordance with local electrical codes.

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[™] 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:

T-BAR ECO DC fixtures have a 24VDC input and consume 7W/ft max. Junction box installed on fixture for low voltage wiring connection to remote driver (sold separately). L₈₀ > 60k hrs

WARRANTY:

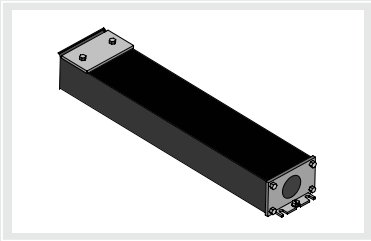
5 years limited warranty. For complete warranty terms, please visit our website.

LISTINGS:

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

Product Name	Driver Type	Power	Wattage	Voltage
TBECODC = T-BAR ECO DC Power Supply	PS = Non Dimmable DIM = 1% Dimmable 0-10 VDC	HP = High Power	100W = 96W	UNV = Universal 100-277V

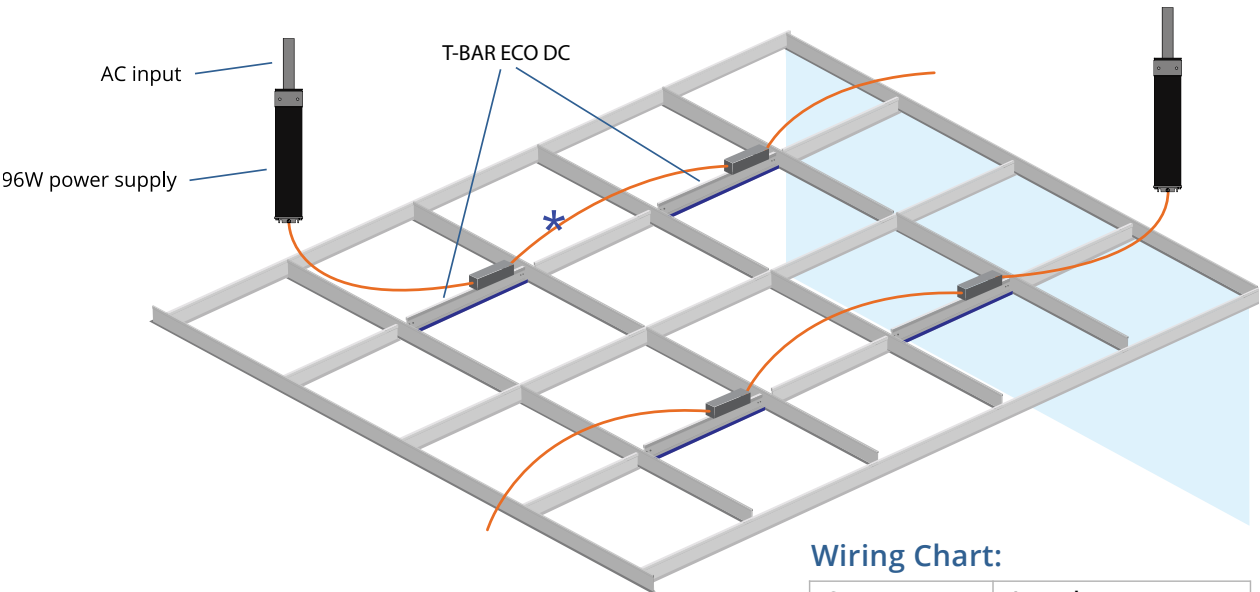
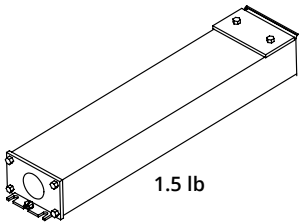
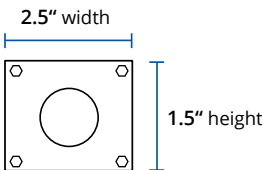
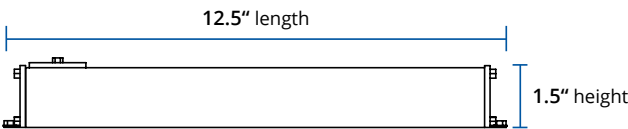
WARRANTY: 5 years



24VDC LED Driver 96W Power Supply
0-10 VDC dimmable and non dimmable

T-BAR ECO DC modules can be parallel connected up to 12 linear feet max per power supply. 96W max single output Class 2 power supply, universal input voltage 100-277Vac output 24VDC. This power supply includes a JB compartment for AC input direct wiring with metal conduit. Available with 0-10Vdc nominal 1% dimming option.

96W Power Supply dimensions



Secure LED driver to a remote location without the need of a NEMA box.

Wiring Chart:

Gauge	Length
18 (0.75 mm ²)	30ft (9m) maximum
16 (1.5 mm ²)	45ft (14m) maximum
14 (2.0 mm ²)	70ft (21m) maximum

* Cabling for low voltage connections between fixtures, by others.



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

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.

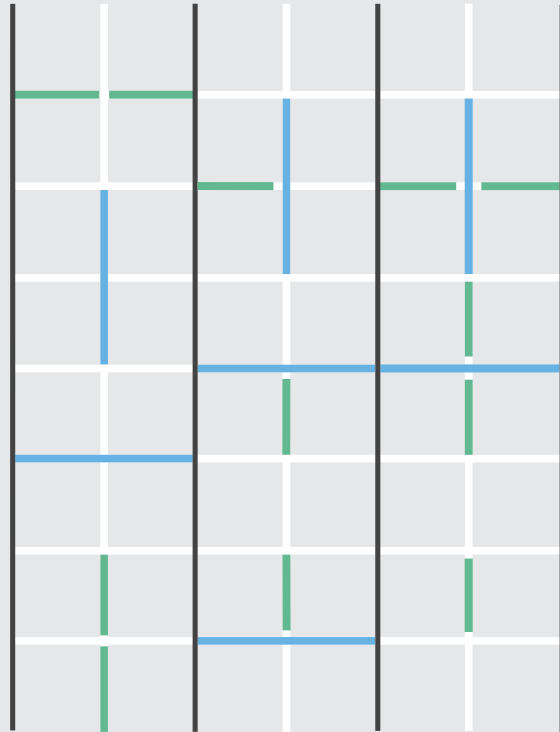
TERALyte™ 1"

for **Armstrong** Prelude XL Max
CEILING SOLUTIONS



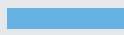
TERALyte 1" utilizes JLC-Tech's patented technology of directly replacing the cross tees in a suspended ceiling system. Designed specifically for the Armstrong® Prelude XL Max 15/16" suspension system, the TERALyte 1" installs just like a typical cross tee. The on-board driver features a universal 120-277VAC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

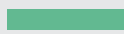
Mounting Configurations

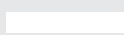


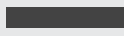
TERALyte 1" becomes a part of the ceiling assembly.

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" 

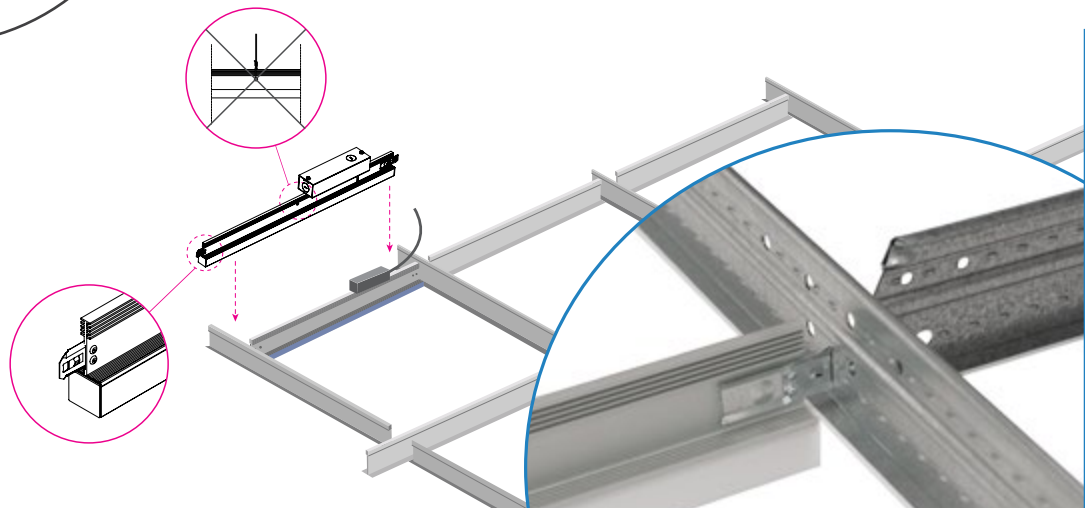
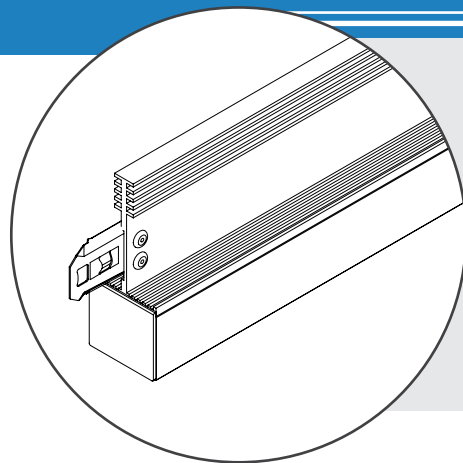
2' TERALyte 1" 

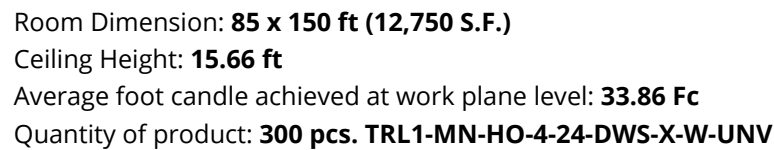
Possible positions for TERALyte 1" light modules 

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.





Model Group	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7	Model 8	Model 9	Model 10	Model 11	Model 12	Model 13	Model 14	Model 15
Blue Group	39.9	40.5	40.9	41.1	41.2	41.3	41.3	41.2	41.0	40.6	40.0	39.1	37.4	34.2	31.5
Orange Group	39.7	40.3	40.7	40.9	41.0	41.1	41.0	40.9	40.7	40.4	39.8	38.9	37.2	34.1	31.4
Green Group	29.8	30.2	30.5	30.6	30.6	30.7	30.6	30.6	30.5	30.2	29.9	29.3	28.1	25.8	26.0
Red Group	37.3	37.9	38.3	38.5	38.6	38.6	38.6	38.5	38.3	38.0	37.4	36.5	34.9	32.1	29.6
Purple Group	39.3	40.1	40.4	40.6	40.8	40.7	40.8	40.6	40.5	40.1	39.5	38.6	36.9	33.9	30.5
Blue Group	32.8	33.6	34.1	34.4	34.5	34.5	34.5	34.3	34.0	33.5	32.5	31.4	30.0	27.8	26.1
Orange Group	38.5	39.6	40.0	40.3	40.5	40.4	40.5	40.2	40.0	39.4	38.8	38.5	37.2	34.3	30.0

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

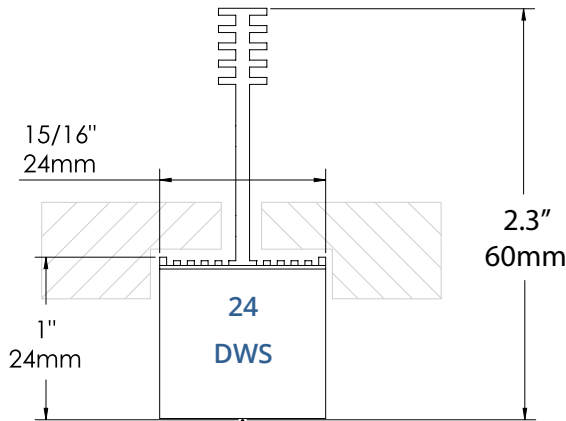
www.jlc-tech.com/patents

*For PoE, consult factory



Profile Dimensions

(Compatible with Tegular and Lay-in tiles)



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.

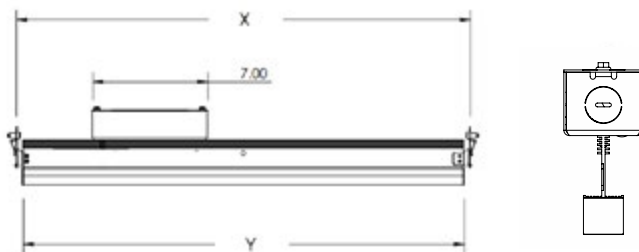
WARRANTY:

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

LISTINGS:

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

Length Dimensions

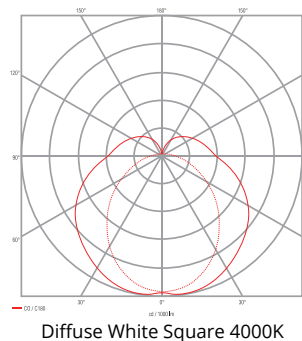


Size	Grid Type	X	Y
2 = 2ft	24 = 15/16"	24"	23"
4 = 4ft	24 = 15/16"	48"	47"
4L	24 = 15/16"	48"	24"

Photometrics

CRI > 82 (90CRI available on request)

L80 > 60,000 hrs



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

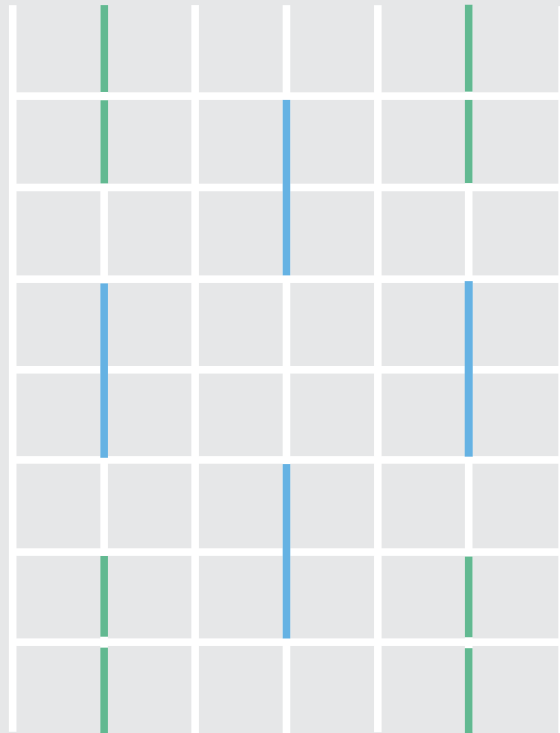
TERALyte™ 2"

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.

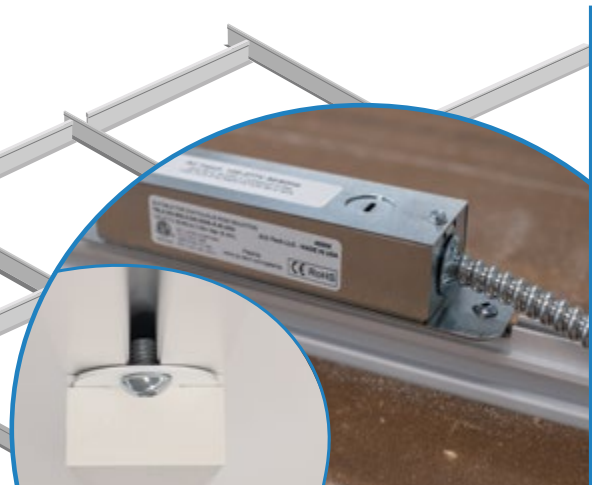
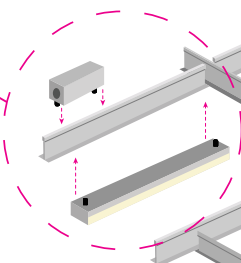
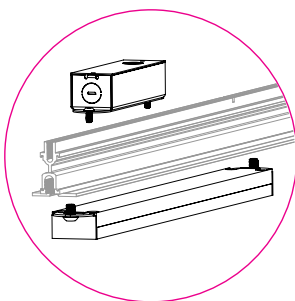
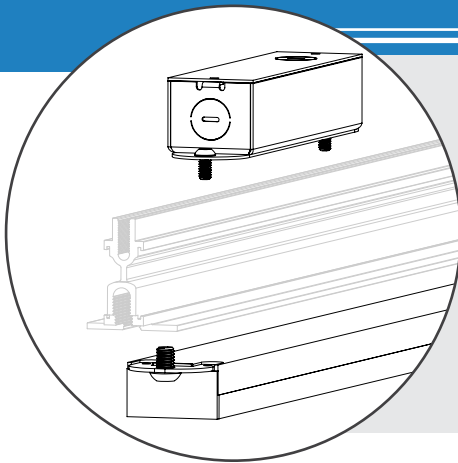
4' TERALyte 2" 

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.



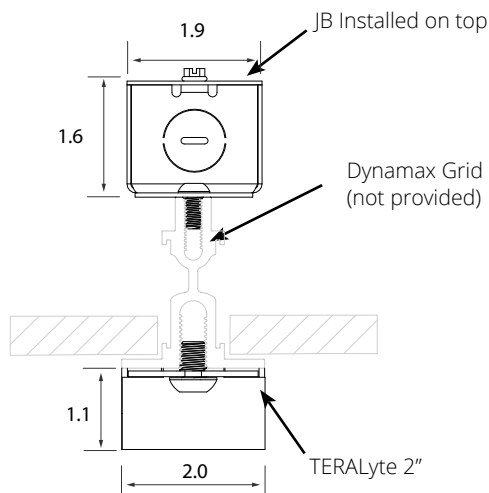
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Product Name	LED/K Color	Light Output	Length	Grid Type	Optic	Mounting Clips	Color	Driver
TRL2 = TERALyte 2"	HW = 3000K MW = 3500K MN = 4000K CN = 5000K 90 CRI available, on request.	LO = Low Output MO = Medium Output HO = High Output Custom lumen outputs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

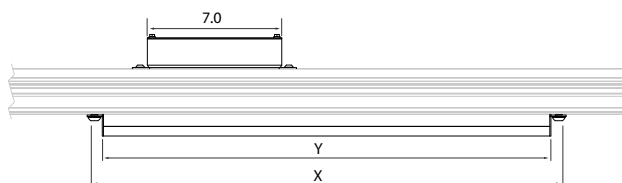


Profile Dimensions

(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

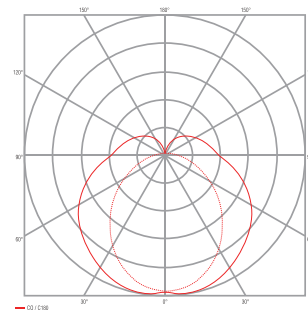
LISTINGS:

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® 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.



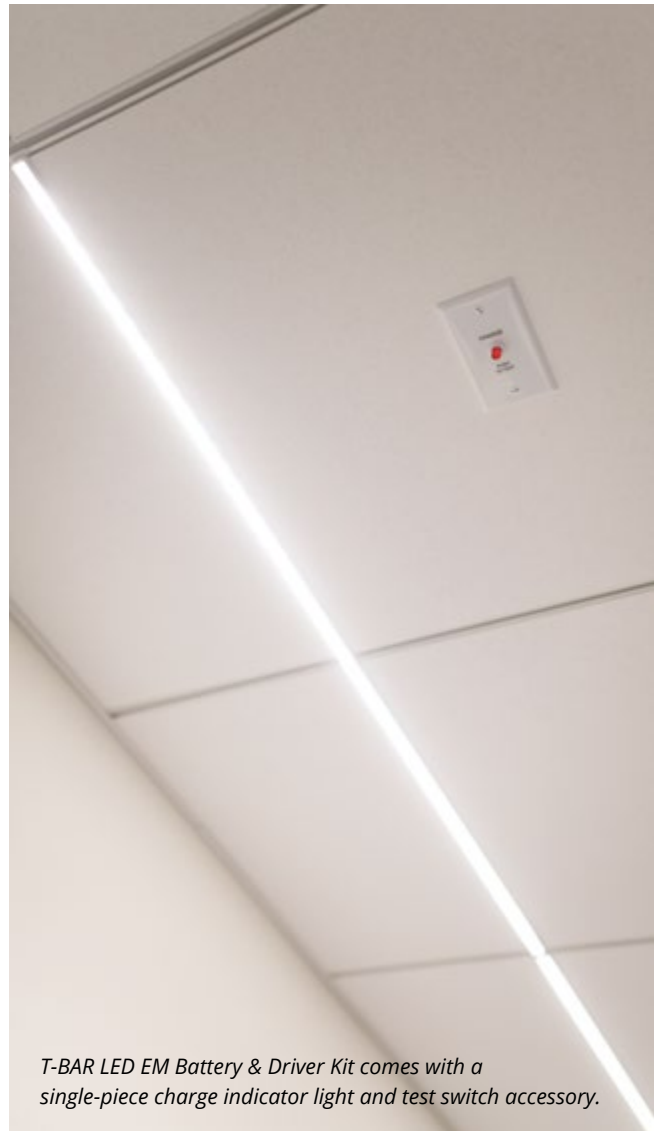
CP CONSTANT
POWER
EMERGENCY OUTPUT

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

T-BAR LED®
T-BAR UP®
T-BAR TWO®
T-BAR ECO® DC
Sorella™

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

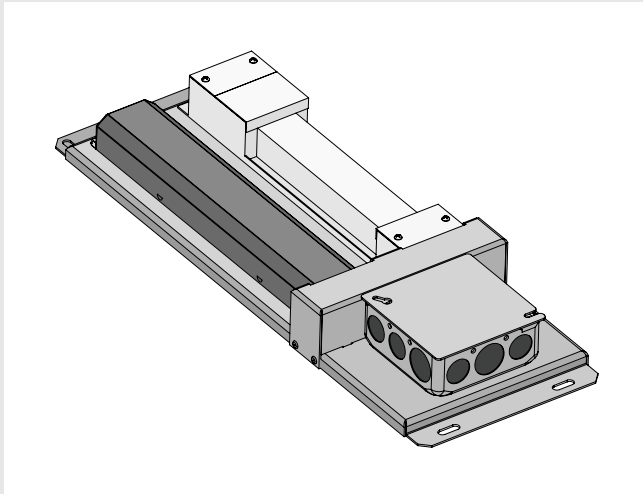
*Due to the 12W Constant Power output, when operating in emergency mode in the event of a power loss, the lumen output from the T-BAR LED products connected to the kit will always correspond with the above chart, regardless of the fixture run length. For example, 2ft of T-BAR LED connected to the emergency 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
TBEM = T-BAR LED EM Battery/Driver Kit	PS = Non Dimmable DIM = 1% Dimmable 0-10 VDC	12 = 12W Battery	64 = 64W Driver	UNV = Universal 120-277V

WARRANTY: 5 years



T-BAR LED® EM Battery & Driver Kit

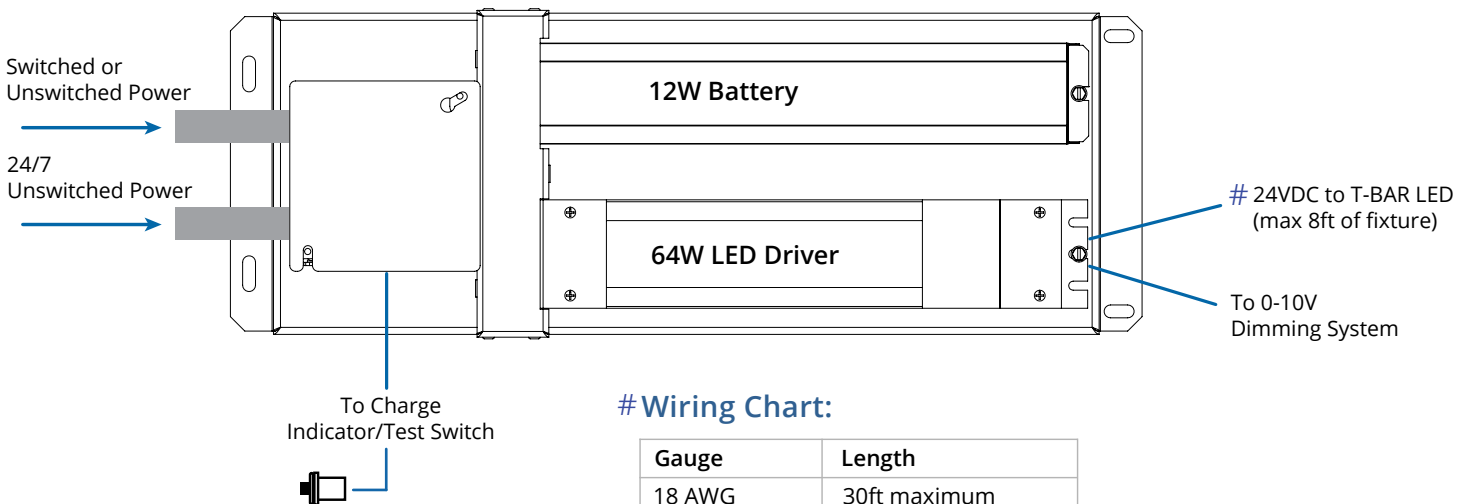
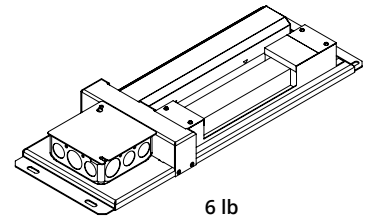
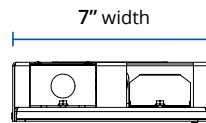
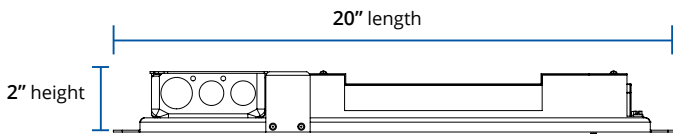
24VDC 64W LED Driver with 12W Battery Kit 0-10 VDC dimmable and non dimmable

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



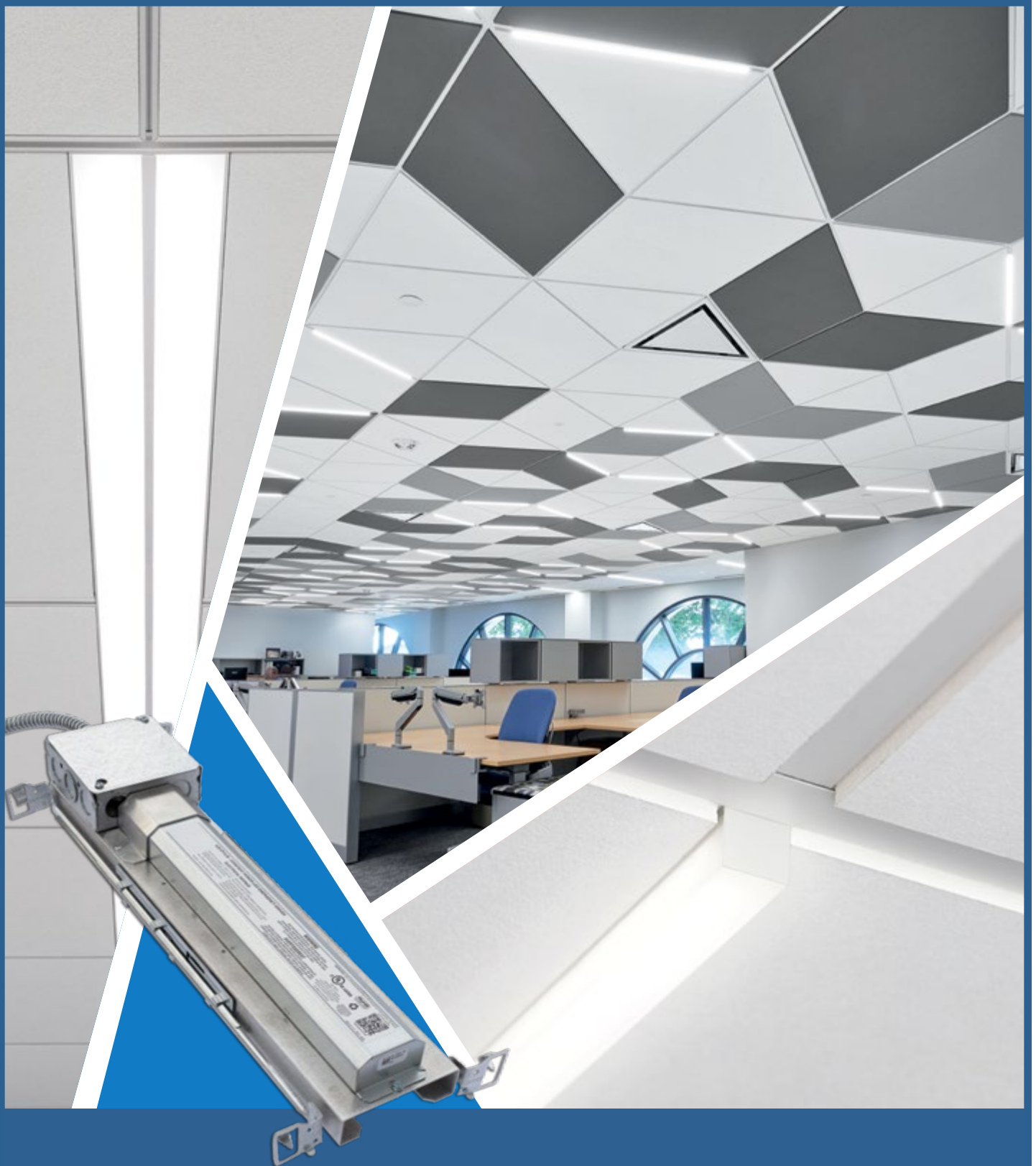
Wiring Chart:

Gauge	Length
18 AWG	30ft maximum
16 AWG	40ft maximum
14 AWG	50ft maximum

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

JLC-Tech LLC | Pembroke, MA – USA | info@jlc-tech.com | www.jlc-tech.com

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Emergency Battery Kit *for Line Voltage Product Lines*

Compatible with

GEMINI™ | T-BAR FLEX® | T-BAR ECO® | TERA₃Lyte™ | T-BAR LED® X_{SERIES}

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

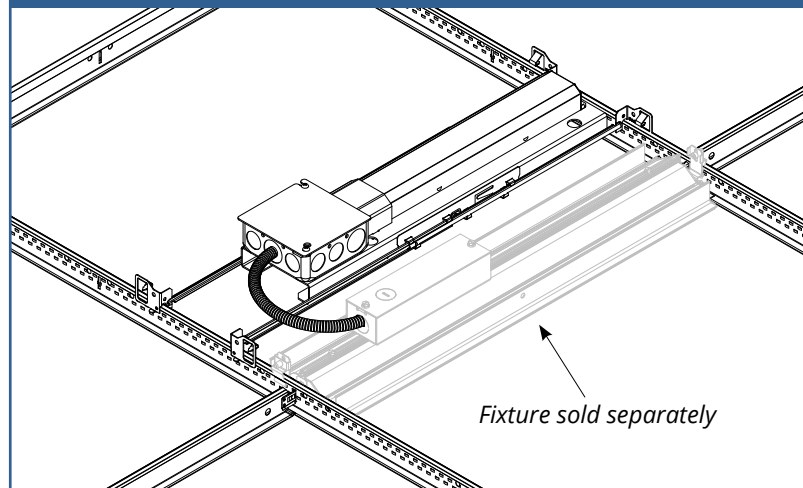
**Approximate values, consult factory for more info.*



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.

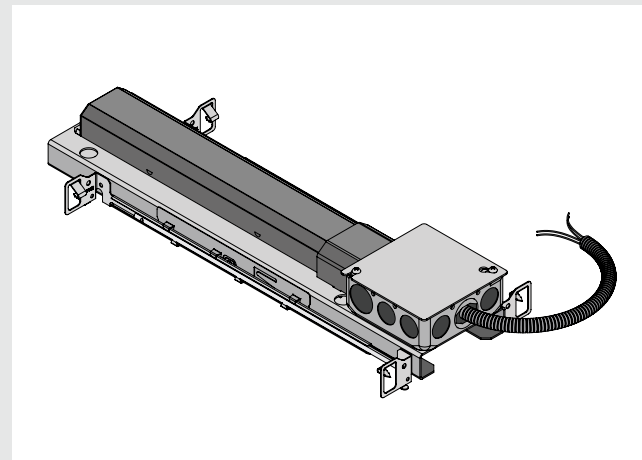
Installation



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	FLEX = T-BAR FLEX ECO = T-BAR ECO GEM = GEMINI TRL = TERALyte XS = T-BAR LED X-Series	12 = 12W Battery 14 = 14W Battery	UNV = Universal 120-277V

WARRANTY: 5 years



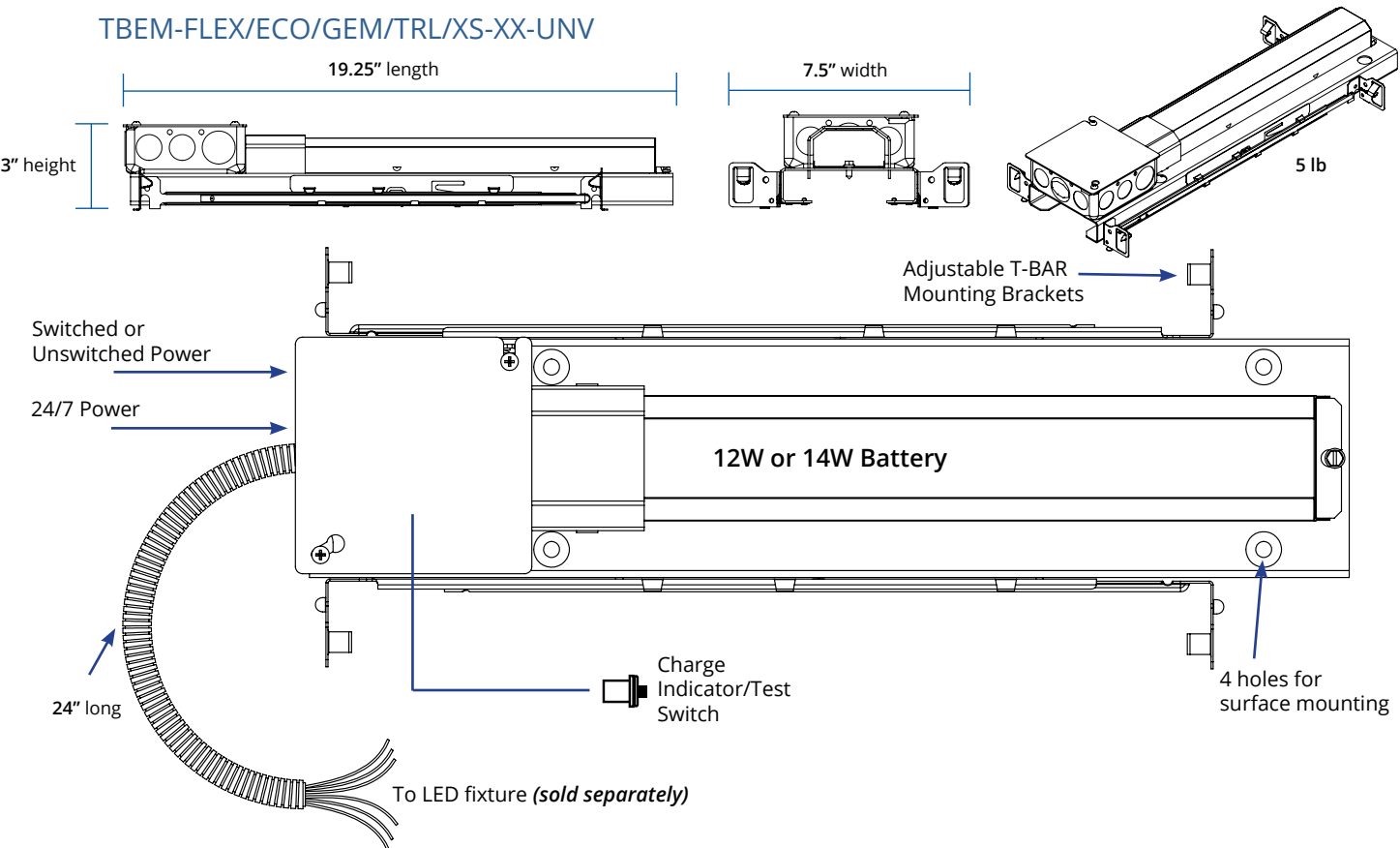
Emergency Battery Kit

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 back-up 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.



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

JLC-Tech LLC | Pembroke, MA – USA | info@jlc-tech.com | www.jlc-tech.com

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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.

JLC-Tech LLC
130 Corporate Park Drive, Pembroke, MA 02359

T +1-781-826-8162 F +1-781-826-8163
info@jlc-tech.com
www.jlc-tech.com

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