

project: Cinemark
location: Grapevine, Texas

ACCENT FIXTURES

interior_lensed_unlensed

fixed



EFO-MBF-XX MULTIBEAM FIXTURE, FIXED

Max. Overall Dimensions: 3.31" OD x 4.5" H (84MM OD x 114MM H)
Trim/Flange Dimensions: 3.31" OD x 0.25" H (84MM OD x 6MM H)
Aperture Dimensions: 2.0" OD (51MM OD)

Rough-in: 2.63" (67MM)	Beam Spread: 15°, 25°, 40°, AND 60°*
Opticore Fibers: EFO-14/12MM MAX.	Finish (XX): (MB)BLACK, (WT) WHITE, (PB) GOLD
Recess: 14.0" (356MM)	Weight: 1.7 LBS
Bayonet: ATTACHED TO FIBER TAIL	

Technical Remarks:

Fixtures mount to T-Bar ceiling grid with Erico 512HD Caddy Rails, Fiberstars EFO-CR rails or others.
 Fixtures mount to hard ceiling using optional butterfly brackets, EFO-BFB.
 *60° beam is achieved with no lens installed. Must request at time of order.

Prime Material: STEEL
Mounting: T-BAR CEILING GRID (SHOWN), HARD CEILING (OPTIONAL)

adjustable



EFO-MBF-F-XX MULTIBEAM FIXTURE WITH FLEX ARM

Max. Overall Dimensions: 3.31" OD x 18.5" H (84MM OD x 470MM H)
Trim/Flange Dimensions: 3.31" OD x 0.25" H (84MM OD x 6MM H)
Aperture Dimensions: 2" OD (51MM OD)

Rough-in: 2.63" (67MM)	Beam Spread: 15°, 25°, 40°, AND 60°*
Opticore Fibers: EFO-14/12MM MAX.	Rotation Angle: 360°
Recess: 14.0" (356MM)	Max. Tilt Angle: +/- 90°
Bayonet: ATTACHED TO FIBER TAIL	Finish (XX): (MB)BLACK, (WT) WHITE
	Weight: 2.3 LBS

Technical Remarks:

Same as EFO-MBF, but with an added flex arm gooseneck that allows aiming the fixture in any direction. Flex arm extends to a maximum of 14 inches from the ceiling. Mounting is the same as EFO-MBF. Consult Factory for custom fiber tail needed.
 *60° beam is achieved with no lens installed. Must request at time of order.

Prime Material: STEEL
Mounting: T-BAR CEILING GRID HARD CEILING (OPTIONAL)

fixed



EFO-FAW-18-XX FIXED AIM WALL WASHER

Max. Overall Dimensions: 3.75" OD x 4.5" H (95MM OD x 114MM H)
Trim/Flange Dimensions: 3.75" OD x 1.19" H (95MM OD x 30MM H)
Aperture Dimensions: 2" OD (51MM OD)

Rough-in: 2.63" (67MM)	Beam Spread: 15°, 25°, 40°, AND 60°*
Opticore Fibers: EFO-14/12MM MAX.	Finish (XX): (MB)BLACK, (WT) WHITE
Recess: 12.0" (305MM)	Weight: 2.0 LBS
Bayonet: ATTACHED TO FIBER TAIL	

Technical Remarks:

This fixture has a fixed 18° tilt to give consistent lighting on a vertical surface. Mounting is the same as EFO-MBF.
 *60° beam is achieved with no lens installed. Must request at time of order.

Prime Material: STEEL
Mounting: T-BAR CEILING GRID (SHOWN), HARD CEILING (OPTIONAL)

fixed



EFO-LPS-25-XX OR 60-XX LOW PROFILE, SIDE ENTRY

Max. Overall Dimensions: 5.5" OD x 3.0" H (140MM OD x 76MM H)
Trim/Flange Dimensions: 5.5" OD x 0.06" H (140MM OD x 2MM H)
Aperture Dimensions: 4.13" OD (105MM OD)

Rough-in: 4.5" (114MM)	Beam Spread: 25° OR 60°
Opticore Fibers: EFO-17/15MM MAX.	Finish (XX): (MB)BLACK, (WT) WHITE
Recess: 3.0" (76MM)	Weight: 3.0 LBS
Bayonet: ATTACHED TO FIBER TAIL	

Technical Remarks:

T-Bar Ceiling Grid Mount
 EFO-LPS-25-XX = 25° Lensed Fixture
 EFO-LPS-60-XX = 60° Unlensed Fixture with mirror
 Since the fiber connects on the side, the low profile, side entry fixture requires less than 3.5" (89mm) of clearance above the ceiling plane for installation.

Prime Material: STEEL
Mounting: T-BAR CEILING GRID

fixed



EFO-LPS-25-HC-XX OR 60-HC-XX LOW PROFILE, SIDE ENTRY

Max. Overall Dimensions: 5.5" OD x 3.0" H (140MM OD x 76MM H)
Trim/Flange Dimensions: 5.5" OD x 0.06" H (140MM OD x 2MM H)
Aperture Dimensions: 4.13" OD (105MM OD)

Rough-in: 4.88" (124MM)	Beam Spread: 25° OR 60°
Opticore Fibers: EFO-17/15MM MAX.	Finish (XX): (MB)BLACK, (WT) WHITE
Recess: 3.0" (76MM)	Weight: 1.7 LBS
Bayonet: ATTACHED TO FIBER TAIL	

Technical Remarks:

Hard Ceiling Mount
 EFO-LPS-25-HC-XX = 25° Lensed Fixture
 EFO-LPS-60-HC-XX = 60° Unlensed Fixture with mirror
 Since the fiber connects on the side, the low profile, side entry fixture requires less than 3.5" (89mm) of clearance above the ceiling plane for installation.

Prime Material: STEEL
Mounting: HARD CEILING (HC)

ACCENT FIXTURES

interior_lensed_beam softeners & effect filters

4-spot adjustable



EFO-AAL-4R-XX ADJUSTABLE ACCENT LIGHT 4-SPOT

Max. Overall Dimensions:	21.38" L x 6.25" W x 4.63" H (543MM L x 159MM W x 118MM H)	
Trim/Flange Dimensions:	21.38" L x 6.25" W x 0.13" H (543MM L x 159MM W x 3MM H)	
Aperture Dimensions:	2.0" OD (51MM OD) PER LENS	
Rough-in:	20.3" x 5.5" (516MM x 140MM)	Beam Spread: 15°, 25°, 40°, AND 60°*
Opticore Fibers:	EFO-14/12MM MAX.	Rotation Angle: 360°
Recess:	14.0" (356MM)	Max. Tilt Angle: +/- 31°
Bayonet:	ATTACHED TO FIBER TAIL	Finish (XX): (MB)BLACK, (WT)WHITE
		Weight: 9.7 LBS

Technical Remarks:

(4R) Four Spots, recessed
*60° beam is achieved with no lens installed. Must request at time of order.

Prime Material:	STEEL/ALUMINUM
Mounting:	T-BAR CEILING GRID HARD CEILING VERSIONS AVAILABLE, CONSULT FACTORY

3-spot adjustable



EFO-AAL-3R-XX ADJUSTABLE ACCENT LIGHT 3-SPOT

Max. Overall Dimensions:	16.38" L x 6.25" W x 4.63" H (416MM L x 159MM W x 118MM H)	
Trim/Flange Dimensions:	16.38" L x 6.25" W x 0.13" H (416MM L x 159MM W x 3MM H)	
Aperture Dimensions:	2.0" OD (51MM OD) PER LENS	
Rough-in:	15.63" x 5.5" (397MM x 140MM)	Beam Spread: 15°, 25°, 40°, AND 60°*
Opticore Fibers:	EFO-14/12MM MAX.	Rotation Angle: 360°
Recess:	14.0" (356MM)	Max. Tilt Angle: +/- 31°
Bayonet:	ATTACHED TO FIBER TAIL	Finish (XX): (MB)BLACK, (WT)WHITE
		Weight: 7.5 LBS

Technical Remarks:

(3R) Three Spots, recessed
*60° beam is achieved with no lens installed. Must request at time of order.

Prime Material:	STEEL/ALUMINUM
Mounting:	T-BAR CEILING GRID HARD CEILING VERSIONS AVAILABLE, CONSULT FACTORY

2-spot adjustable



EFO-AAL-2R-XX ADJUSTABLE ACCENT LIGHT 2-SPOT

Max. Overall Dimensions:	11.38" L x 6.25" W x 4.63" H (289MM L x 159MM W x 118MM H)	
Trim/Flange Dimensions:	11.38" L x 6.25" W x 0.13" H (289MM L x 159MM W x 3MM H)	
Aperture Dimensions:	2.0" OD (51MM OD) PER LENS	
Rough-in:	10.63" x 5.25" (270MM x 133MM)	Beam Spread: 15°, 25°, 40°, AND 60°*
Opticore Fibers:	EFO-14/12MM MAX.	Rotation Angle: 360°
Recess:	14.0" (356MM)	Max. Tilt Angle: +/- 31°
Bayonet:	ATTACHED TO FIBER TAIL	Finish (XX): (MB)BLACK, (WT)WHITE
		Weight: 5.7 LBS

Technical Remarks:

(2R) Two Spots, recessed
*60° beam is achieved with no lens installed. Must request at time of order.
2R picture shown with optional face plate, available 2005.

Prime Material:	STEEL/ALUMINUM
Mounting:	T-BAR CEILING GRID HARD CEILING VERSIONS AVAILABLE, CONSULT FACTORY

1-spot adjustable



EFO-AAL-1R-XX ADJUSTABLE ACCENT LIGHT SINGLE SPOT

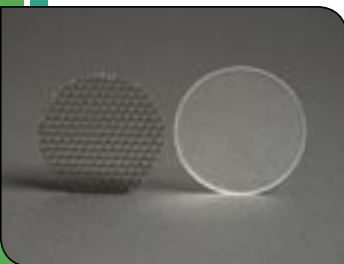
Max. Overall Dimensions:	6.38" L x 6.25" W x 4.63" H (162MM L x 159MM W x 118MM H)	
Trim/Flange Dimensions:	6.38" L x 6.25" W x 0.13" H (162MM L x 159MM W x 3MM H)	
Aperture Dimensions:	2.0" OD (51MM OD) PER LENS	
Rough-in:	5.63" x 5.5" (143MM x 140MM)	Beam Spread: 15°, 25°, 40°, AND 60°*
Opticore Fibers:	EFO-14/12MM MAX.	Rotation Angle: 360°
Recess:	14.0" (356MM)	Max. Tilt Angle: +/- 31°
Bayonet:	ATTACHED TO FIBER TAIL	Finish (XX): (MB)BLACK, (WT)WHITE
		Weight: 4.0 LBS

Technical Remarks:

(1R) One Spot, recessed
*60° beam is achieved with no lens installed. Must request at time of order.

Prime Material:	STEEL/ALUMINUM
Mounting:	T-BAR CEILING GRID HARD CEILING VERSIONS AVAILABLE, CONSULT FACTORY

effect filters



MBF-SOL & MBF-HEX BEAM EFFECTS FILTERS

MBF-SOL Diameter:	2.0" (51MM)
MBF-SOL Thickness:	0.125" (3.1MM)
For use with:	EFO-MBF, EFO-MBF-F, EFO-FAW AND EFO-AAL FIXTURES
MBF-HEX Diameter:	2.0" (51MM)
MBF-HEX Thickness:	0.128" (3.25MM)
For use with:	EFO-MBF, EFO-MBF-F, EFO-FAW AND EFO-AAL FIXTURES

Technical Remarks:

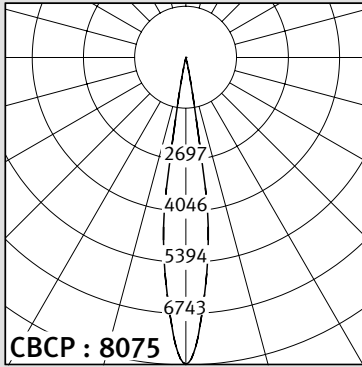
MBF-SOL-Lens:
Solite softening filter
MBF-HEX-Louver:
Hexagon filter
Beam effect filters must be ordered with fixtures.
For EFO-AAL fixtures, filters require mounting clips, EFO-AAL-FC. Additional filters available, consult factory.

PERFORMANCE DATA

reference guide

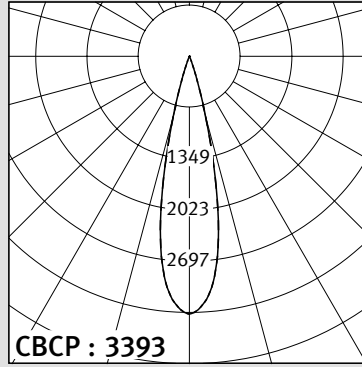


EFO-3+3, 15-DEGREE



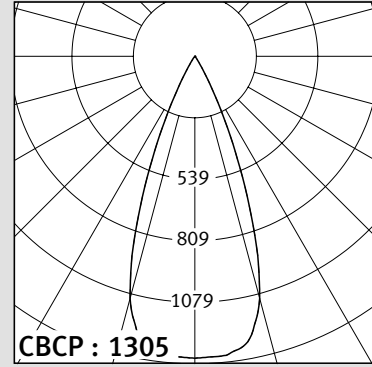
3'	0.8'	897 FC
6'	1.7'	224 FC
9'	2.5'	100 FC
12'	3.4'	56 FC

EFO-3+3, 25-DEGREE



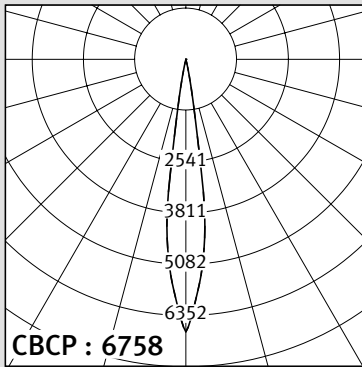
3'	1.2'	377 FC
6'	2.5'	94 FC
9'	3.7'	42 FC
12'	5.0'	24 FC

EFO-3+3, 40-DEGREE



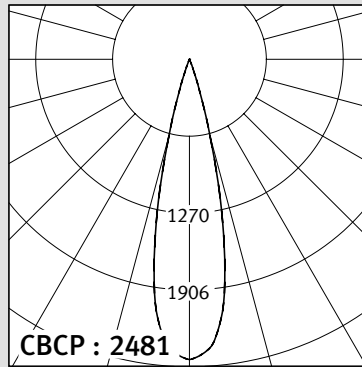
3'	2.1'	145 FC
6'	4.2'	36 FC
9'	6.3'	16 FC
12'	8.5'	9 FC

EFO-4+4, 15-DEGREE



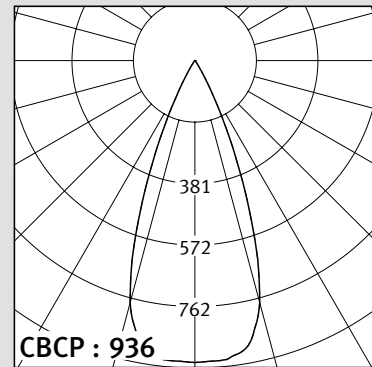
3'	0.8'	751 FC
6'	1.6'	188 FC
9'	2.3'	83 FC
12'	3.1'	47 FC

EFO-4+4, 25-DEGREE



3'	1.3'	276 FC
6'	2.6'	69 FC
9'	3.9'	31 FC
12'	5.1'	17 FC

EFO-4+4, 40-DEGREE

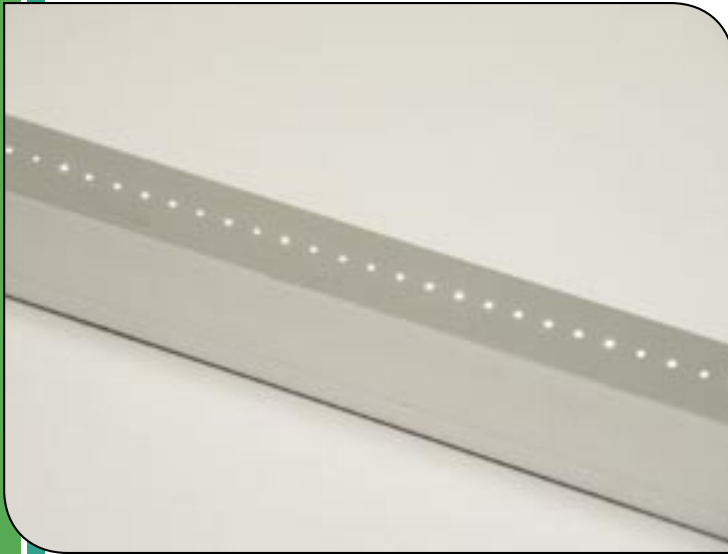


3'	2.2'	104 FC
6'	4.5'	26 FC
9'	6.7'	12 FC
12'	8.9'	7 FC

*Please refer to our web site for more information and ITL data.

EFO LIGHT BARS

description_ordering guide_specifications



LIGHTBEAM

Description:

LightBeam by Fiberstars makes it possible to illuminate along a linear path with the light aimed exactly where it is needed and at exactly the right intensity. The light that is directed has no electrical hazard, no ultraviolet rays, and is virtually infrared free.

Low profile, linear light fixture. Square shape available in standard and compact frames, as well as medium and high wash intensities. Quality aluminum extrusion of rugged construction.

Used with EFO-1+1 or EFO-AG illuminators.

EFO-LB						
ordering guide	Lit Length: () SPECIFY INCHES	Tail Length: () SPECIFY FEET	Wash Intensity: H HIGH (10 FIBERS/INCH) M MEDIUM (6 FIBERS/INCH)	Base Size: S STANDARD (1") C COMPACT (5/8")	Finishes: S STANDARD CLEAR ANODIZED B BLACK ANODIZED	Tail Exit: L LEFT R RIGHT C CUSTOM

<p>Specifications: Beam Spread: 60° Max Lit Lengths: STANDARD SIZE: HIGH INTENSITY 50" (1270MM), MEDIUM INTENSITY 83" (2108MM) COMPACT SIZE: HIGH INTENSITY 16" (406MM), MEDIUM INTENSITY 28" (711MM) Base Sizes: STANDARD SIZE: 1" (25.4MM) SQUARE COMPACT SIZE: 0.65" (16.5MM) SQUARE Mounting: LB-MB (SEE PAGE 30) OR SIMILAR SURFACE MOUNT. Technical Remarks: EMITS A WASH OF LIGHT ALONG AN AXIS. WASH INTENSITY INCREASES WHEN FIBER SPACING DECREASES. Cable Diameters: STANDARD SIZE: 7/8" MAX COMPACT SIZE: 9/16" MAX Max Fiber Capacity: 500 FIBERS PER PORT</p>	<p>Compact Base Configuration:</p>	<p>Standard Base Configuration:</p>
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<p>Isometric Key: H BASE SIZE L LENGTH UP TO 83" S FIBER SPACING T TAIL LENGTH</p>	<p>Isometric:</p>	<p>Cross Section:</p>
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EFO LIGHT BARS

description_ordering guide_specifications



EFO light bars



LIGHTBEAM QUARTER ROUND

Description:

LightBeam Quarter Round by Fiberstars makes it possible to illuminate along a linear path with the light aimed exactly where it is needed and at exactly the right intensity. The light that is directed has no electrical hazard, no ultraviolet rays, and is virtually infrared free.

Low profile, linear light fixture. Quarter round shape allows angular light distribution in a standard or compact frame as well as medium or high wash intensities. Quality aluminum extrusion of rugged construction.

Used with EFO-1+1 or EFO-AG illuminators.

EFO-LBQR						
ordering guide	Lit Length: () SPECIFY INCHES	Tail Length: () SPECIFY FEET	Wash Intensity: H HIGH (10 FIBERS/INCH) M MEDIUM (6 FIBERS/INCH)	Base Size: S STANDARD (1 1/4") C COMPACT (3/4")	Finishes: S STANDARD CLEAR ANODIZED B BLACK ANODIZED	Tail Exit: L LEFT R RIGHT C CUSTOM

<p>Specifications:</p> <p>Beam Spread: 60°</p> <p>Max Lit Lengths: STANDARD SIZE: HIGH INTENSITY 50" (1270MM), MEDIUM INTENSITY 83" (2108MM). COMPACT SIZE: HIGH INTENSITY 16" (406MM), MEDIUM INTENSITY 28" (711MM)</p> <p>Base Sizes: STANDARD SIZE: 1 1/4" QR (31.75MM) COMPACT SIZE: 3/4" QR (19.05MM)</p> <p>Mounting: LB-MB (SEE PAGE 30) OR SIMILAR SURFACE MOUNT.</p> <p>Technical Remarks: LIGHT EMITS 45 DEGREES FROM RIGHT-ANGLE SIDE; OTHER AIMS POSSIBLE BY SPECIAL ORDER.</p> <p>Cable Diameters: STANDARD SIZE: 7/8" MAX COMPACT SIZE: 9/16" MAX</p> <p>Max Fiber Capacity: 500 FIBERS PER PORT</p>	<p>Compact Base Configuration:</p>	<p>Standard Base Configuration:</p>
<p>Isometric Key:</p> <p>H BASE SIZE</p> <p>L LENGTH UP TO 83"</p> <p>S FIBER SPACING</p> <p>T TAIL LENGTH</p>	<p>Isometric:</p>	<p>Cross Section:</p> <p>Section A-A</p>

EFO LIGHT BARS

description_ordering guide_specifications



LIGHTFRAME

Description:

LightFrame is specially designed for edge illumination of etched and deep carved transparent panels. LightFrame provides a receiving channel to align fibers to the edge of the panel while offering all the benefits of LightBeam. LightFrame is not intended to be used as a structural support for transparent panels. These panels must be anchored independently of the LightFrame bar. Panel must be monolithic, acrylic, or high-clarity glass (not laminated, float glass, etc.) and surface etched no more than 25%. Light penetration is 12"-24". Used with EFO-1+1 or EFO-AG illuminators.

EFO-LF							
ordering guide	Lit Length: () SPECIFY INCHES	Tail Length: () SPECIFY FEET	Wash Intensity: H HIGH (10 FIBERS/INCH) M MEDIUM (6 FIBERS/INCH)	Base Size: S STANDARD (1") C COMPACT (5/8")	Panel Thickness: A 0.25" THICKNESS B 0.375" THICKNESS C 0.5" THICKNESS D 0.75" THICKNESS (STANDARD BASE ONLY)	Finishes: S STANDARD CLEAR ANODIZED B BLACK ANODIZED	Tail Exit: L LEFT R RIGHT C CUSTOM

<p>Specifications:</p> <p>Beam Spread: 60° UNTIL ENTERING PANEL, INTERNALLY REFLECTED</p> <p>Max Lit Lengths: STANDARD SIZE: HIGH INTENSITY 50" (1270MM), MEDIUM INTENSITY 83" (2108MM) COMPACT SIZE: HIGH INTENSITY 16" (406MM) MEDIUM INTENSITY 28" (711MM)</p> <p>Base Sizes: STANDARD SIZE: 1.01" W x 1.54" H (25.44MM x 39.1MM). PANEL THICKNESS: 0.25", 0.375", 0.5" OR 0.75" (6.35MM, 9.5MM, 12.7MM, 19MM) COMPACT SIZE: 0.65" W x 1.175" H (16.5MM x 29.8MM). PANEL THICKNESS: 0.25", 0.375" OR 0.5" (6.35MM, 9.5MM, 12.7MM)</p> <p>Mounting: PANEL HOLDS FIXTURE; FIXTURE SHOULD NOT SUPPORT PANEL. ADHERE TO PANEL WITH CLEAR SILICONE.</p> <p>Cable Diameters: STANDARD SIZE: 7/8" MAX COMPACT SIZE: 9/16" MAX</p> <p>Max Fiber Capacity: 500 FIBERS PER PORT</p>	<p>Compact Base Configurations:</p> <p>1/4" RECEIVING CHANNEL 3/8" RECEIVING CHANNEL 1/2" RECEIVING CHANNEL</p>	
<p>Isometric Key:</p> <p>H BASE SIZE L LENGTH UP TO 83" S FIBER SPACING T TAIL LENGTH P PANEL THICKNESS</p>	<p>Isometric:</p>	<p>Standard Base Configurations:</p> <p>3/8" RECEIVING CHANNEL 1/2" RECEIVING CHANNEL 3/4" RECEIVING CHANNEL</p>

EFO LIGHT BARS

description_ordering guide_specifications



EFO light bars



TRIAxis

Description:

Similar to LightBeam, asymmetrical distribution. The unique design of this light bar has 3 different angles of distribution: 15°, 30° and 35°. This allows a broader wash of light into a display case or similar application.

Case Lighting Recommendations:

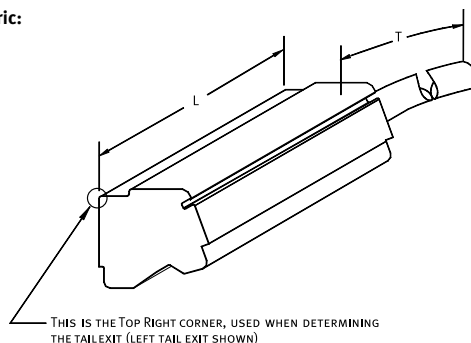
- (22") recommended for 24" cases
- (34") recommended for 36" cases
- (46") recommended for 48" cases
- (58") recommended for 60" cases
- (70") recommended for 72" cases

EFO-TRX				
ordering guide	Lit Length: () SPECIFY INCHES	Tail Length: () SPECIFY FEET	Finishes: S STANDARD CLEAR ANODIZED	Tail Exit: L LEFT R RIGHT C CUSTOM

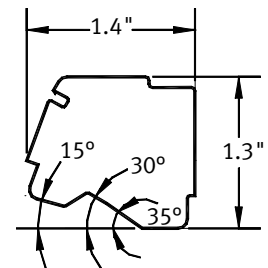
Specifications:
Beam Spread: 80° (ASYMMETRIC)
Max Lit Lengths: 100" (2540M)
Base Sizes: 1.4" x 1.3" (35.56MM X 33MM)
Mounting: LB-MB (SEE PAGE 30) OR SIMILAR SURFACE MOUNT
Technical Remarks: INTENDED FOR CASE AND CABINET LIGHTING BUT USEFUL WHEREVER A WIDE-DISPERSION, ASYMMETRICAL WASH IS REQUIRED.
Cable Diameters: STANDARD SIZE: 7/8" MAX
Max Fiber Capacity: 500 FIBERS PER PORT
Fiber Wash: 5 FIBERS PER INCH

Isometric Key:
L LENGTH UP TO 100"
T TAIL LENGTH
E TAIL EXIT, RIGHT OR LEFT

Isometric:

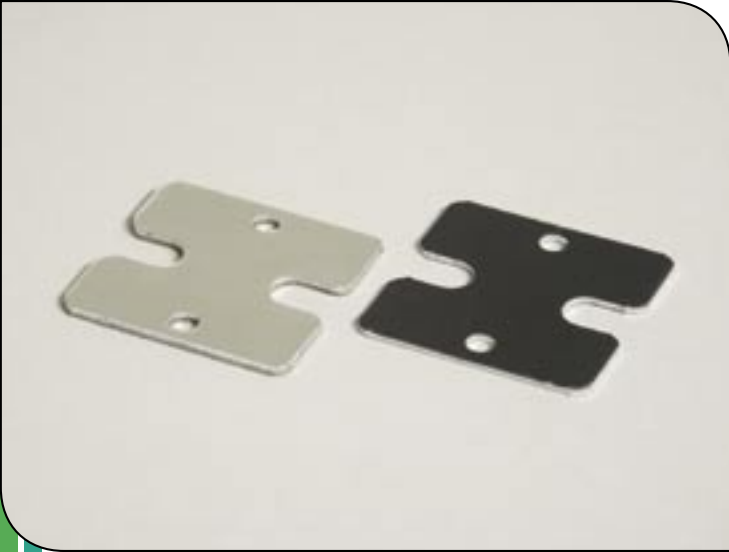


Cross Section:



EFO LIGHT BARS

description_ordering guide_specifications



MOUNTING BRACKET

Description:
 Used to mount linear extrusion fixture (EFO-LB, EFO-LBQR, EFO-LF and EFO-TRX). Adhere LB-MB to fixture with adhesive included, then attach LB-MB to structure with appropriate fasteners. Use one LB-MB every 12" (300mm) and one at each end of fixture.

LB-MB		
ordering guide	Finishes: S STANDARD CLEAR ANODIZED B BLACK ANODIZED	

Specifications:
Sizes: 1.25" (31.75MM) SQUARE
Mounting: ADHESIVE STRIP INCLUDED

