

### Lightly Expressed® Light Bars

Imagine being able to direct bright, pure light exactly where you want it and at exactly the right intensity without concern for heat, ultra-violet fading, or electrical hazard. Beautifully designed Light Bars incorporate patented technologies to provide different intensities and give you the best directed linear lighting in the industry.

Fiberstars Light Bars are the perfect answer for case, cabinet, etched glass or accent lighting applications.



## *focus:* **Elegance**

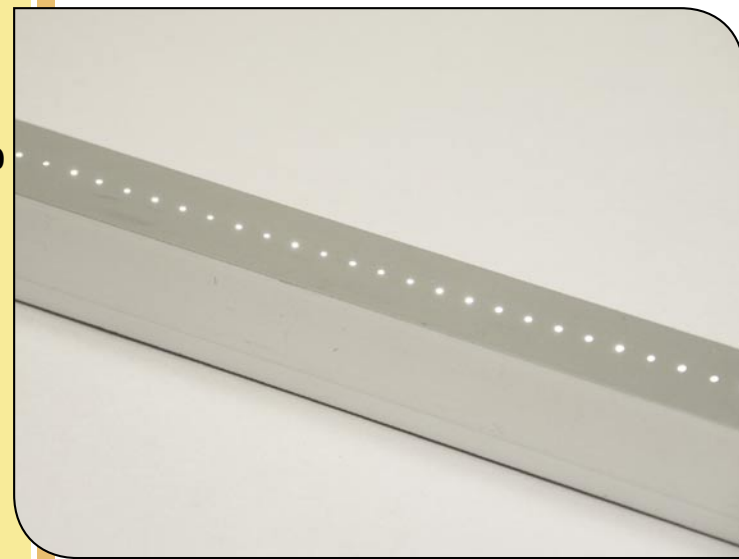


**Project:** Gems, The Mall at Mission Viejo  
**Location:** Orange County, California

# LIGHTLY EXPRESSED® LIGHT BARS

## description\_ordering guide\_specifications

light bars



### LIGHTBEAM

#### Description:

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

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

<b>LB</b>						
<b>ordering guide</b>	<b>Lit Length:</b> ( ) SPECIFY INCHES	<b>Tail Length:</b> ( ) SPECIFY FEET	<b>Wash Intensity:</b> <b>H</b> HIGH (0.25" SPACING) <b>M</b> MEDIUM (0.5" SPACING) <b>L</b> LOW (1" SPACING)	<b>Base Size:</b> <b>S</b> STANDARD (1") <b>C</b> COMPACT (5/8")	<b>Finishes:</b> <b>S</b> STANDARD CLEAR ANODIZED <b>B</b> BLACK ANODIZED	<b>Tail Exit:</b> <b>L</b> LEFT <b>R</b> RIGHT <b>C</b> CUSTOM

<b>Specifications:</b> <b>Beam Spread:</b> 60° <b>Max Lit Lengths:</b> STANDARD SIZE: HIGH INTENSITY 108" (2776MM), MEDIUM AND LOW INTENSITY 120" (3084MM) COMPACT SIZE: HIGH INTENSITY 36" (914MM), MEDIUM INTENSITY 84" (2134MM), LOW INTENSITY 120" (3084MM) <b>Base Sizes:</b> STANDARD SIZE: 1" (25.4MM) SQUARE COMPACT SIZE: 0.65" (16.5MM) SQUARE <b>Mounting:</b> LB-MB (SEE PAGE 16) OR SIMILAR SURFACE MOUNT. <b>Technical Remarks:</b> EMITS A WASH OF LIGHT ALONG AN AXIS. WASH INTENSITY INCREASES WHEN FIBER SPACING DECREASES. <b>Cable Diameters:</b> STANDARD SIZE: 7/8" MAX COMPACT SIZE: 9/16" MAX <b>Max Fiber Capacity:</b> 300 FIBERS <b>Max Lamp Wattage:</b> 150W METAL HALIDE	<b>Compact Base Configuration:</b> 	<b>Standard Base Configuration:</b> 
	<b>Isometric Key:</b> <b>H</b> BASE SIZE <b>L</b> LENGTH UP TO 120" <b>S</b> FIBER SPACING (0.25", 0.5", & 1") <b>T</b> TAIL LENGTH	<b>Isometric:</b> 

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### LIGHTBEAM QUARTER ROUND

#### Description:

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

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

<b>LBQR</b>						
<b>ordering guide</b>	<b>Lit Length:</b> ( ) SPECIFY INCHES	<b>Tail Length:</b> ( ) SPECIFY FEET	<b>Wash Intensity:</b> <b>H</b> HIGH (0.25" SPACING) <b>M</b> MEDIUM (0.5" SPACING) <b>L</b> LOW (1" SPACING)	<b>Base Size:</b> <b>S</b> STANDARD (1 1/4") <b>C</b> COMPACT (3/4")	<b>Finishes:</b> <b>S</b> STANDARD CLEAR ANODIZED <b>B</b> BLACK ANODIZED	<b>Tail Exit:</b> <b>L</b> LEFT <b>R</b> RIGHT <b>C</b> CUSTOM

<b>Specifications:</b> <b>Beam Spread:</b> 60° <b>Max Lit Lengths:</b> STANDARD SIZE: HIGH INTENSITY 108" (2776MM), MEDIUM AND LOW INTENSITY 120" (3084MM). COMPACT SIZE: HIGH INTENSITY 36" (914MM), MEDIUM INTENSITY 84" (2134MM), LOW INTENSITY 120" (3084MM) <b>Base Sizes:</b> STANDARD SIZE: 1 1/4" QR (31.75MM) COMPACT SIZE: 3/4" QR (19.05MM) <b>Mounting:</b> LB-MB (SEE PAGE 16) OR SIMILAR SURFACE MOUNT. <b>Technical Remarks:</b> LIGHT EMITS 45 DEGREES FROM RIGHT-ANGLE SIDE; OTHER AIMS POSSIBLE BY SPECIAL ORDER. <b>Cable Diameters:</b> STANDARD SIZE: 7/8" MAX COMPACT SIZE: 9/16" MAX <b>Max Fiber Capacity:</b> 300 FIBERS <b>Max Lamp Wattage:</b> 150W METAL HALIDE	<b>Compact Base Configuration:</b> 	<b>Standard Base Configuration:</b> 
	<b>Isometric Key:</b> <b>H</b> BASE SIZE <b>L</b> LENGTH UP TO 120" <b>S</b> FIBER SPACING (0.25", 0.5", & 1") <b>T</b> TAIL LENGTH	<b>Isometric:</b> 

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### 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".

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

**Specifications:**  
**Beam Spread:** 60° UNTIL ENTERING PANEL, INTERNALLY REFLECTED  
**Max Lit Lengths:** STANDARD SIZE: HIGH INTENSITY 108" (2776MM), MEDIUM AND LOW INTENSITY 120" (3084MM)  
**Compact Size:** HIGH INTENSITY 36" (914MM), MEDIUM INTENSITY 84" (2134MM), LOW INTENSITY 120" (3084MM)  
**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)  
**Mounting:** PANEL HOLDS FIXTURE; FIXTURE SHOULD NOT SUPPORT PANEL. ADHERE TO PANEL WITH CLEAR SILICONE.  
**Cable Diameters:** STANDARD SIZE: 7/8" MAX  
COMPACT SIZE: 9/16" MAX  
**Max Fiber Capacity:** 300 FIBERS  
**Max Lamp Wattage:** 150W METAL HALIDE

**Compact Base Configurations:**

**Standard Base Configurations:**

**Isometric Key:**  
**H** BASE SIZE  
**L** LENGTH UP TO 120"  
**S** FIBER SPACING (0.25", 0.5", & 1")  
**T** TAIL LENGTH  
**P** PANEL THICKNESS

**Isometric:**

# LIGHTLY EXPRESSED® LIGHT BARS

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### 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

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

**Specifications:**  
**Beam Spread:** 80° (ASYMMETRIC)  
**Max Lit Lengths:** 120" (3.56M)  
**Base Sizes:** 1.4" x 1.3" (35.56MM x 33MM)  
**Mounting:** LB-MB 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:** 300 FIBERS  
**Max Lamp Wattage:** 150W METAL HALIDE

**Isometric Key:**  
**L** LENGTH UP TO 120"  
**T** TAIL LENGTH  
**E** TAIL EXIT, RIGHT OR LEFT

**Isometric:**

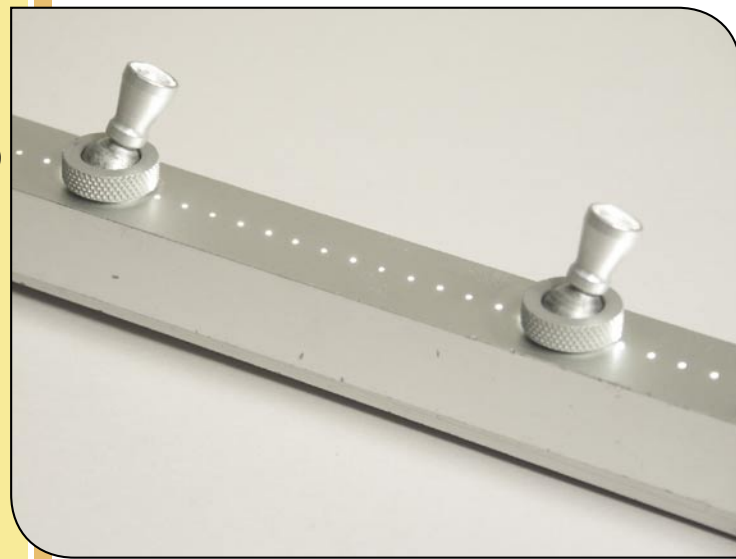
THIS IS THE TOP RIGHT CORNER, USED WHEN DETERMINING THE TAIL EXIT (LEFT TAIL EXIT SHOWN)

**Cross Section:**

# LIGHTLY EXPRESSED® LIGHT BARS

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## FOCI

**Description:**  
A LightBeam fixture with adjustable aim spotlights spaced at intervals along the length of the fixture. Foci provides multiple miniature spot lights in a linear array. Unlike other miniature fiber optic spots, each Foci head naturally emits light in a 60° cone. A standard lens fitting adds a 40° soft to hard spot option. Combining an even wash of light with adjustable highlights. Foci brings the drama of the theatre lighting to your display case design.

<b>F</b>							
<b>ordering guide</b>	<b>Lit Length:</b> ( ) SPECIFY INCHES	<b>Tail Length:</b> ( ) SPECIFY FEET	<b>Head Spacing:</b> 3 3" CENTERS 6 6" CENTERS 12 12" CENTERS C SPECIFY SPACING	<b>Wash Intensity:</b> H HIGH (0.25" SPACING) M MEDIUM (0.5" SPACING) L LOW (1" SPACING) Ø NO WASH (FOCI ONLY)	<b>Base Size:</b> S STANDARD	<b>Finishes:</b> S STANDARD CLEAR ANODIZED B BLACK ANODIZED	<b>Tail Exit:</b> L LEFT R RIGHT C CUSTOM

<p><b>Specifications:</b> <b>Beam Spread:</b> WASH FIBERS 60°; SPOTLIGHTS 40°, 60° WITHOUT LENS <b>Max Lit Lengths:</b> DEPENDS ON INTENSITY OF WASH FIBERS AND QUANTITY OF SPOTLIGHTS <b>Base Sizes:</b> 1.01" W x 2.25" H (25.4MM x 31.75MM) INCLUDING LENS <b>Mounting:</b> LB-MB OR SIMILAR SURFACE MOUNT <b>Technical Remarks:</b> EACH SPOTLIGHT USES 25 STRANDS OF FIBER. <b>Cable Diameters:</b> STANDARD SIZE: 7/8" MAX <b>Max Fiber Capacity:</b> 300 FIBERS <b>Max Lamp Wattage:</b> 150W METAL HALIDE</p>	<p><b>Lens Adapter Specifications:</b> <b>Material:</b> ALUMINUM <b>Spot:</b> 40° SOFT TO HARD EDGE <b>Finish:</b> CLEAR OR BLACK ANODIZED</p>	<p><b>Lens Adapter:</b></p>
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<p><b>Isometric Key:</b> H HEAD SPACING L LENGTH UP TO 120" S FIBER SPACING (0.25", 0.5", &amp; 1") T TAIL LENGTH</p>	<p><b>Isometric:</b></p>	<p><b>Cross Section:</b></p>
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# LIGHTLY EXPRESSED® LIGHT BARS

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## FOCAL POINT

**Description:**  
Based on the Foci system, Focal Point fixtures are machined aluminum miniature fiber optic spotlights with a full 50° directional sweep. Unlensed fixtures emit a 60° cone of light and the optional lens fitting delivers a 40° soft to hard edge spot lighting effect. Positioning is controlled by a locking system. Focal Point is a surface mount fixture that may be attached to various substrates by means of provided mechanical fasteners. The fixture, which rotates 360° and tilts 25°, is held in place with an integrated lock ring. No tools are required for aiming.

<b>FP</b>			
<b>ordering guide</b>	<b>Tail Length:</b> (10) 10' (20) 20' (30) 30'	<b>Optional Lens Fitting:</b> (0) NO LENS, 60° DISTRIBUTION 4) 40° LENS, SOFT TO HARD SPOT	<b>Finishes:</b> S STANDARD CLEAR ANODIZED B BLACK ANODIZED

<p><b>Specifications:</b> <b>Beam Spread:</b> 40° TO 60° WITHOUT LENGTH <b>Sizes:</b> 1.25" D x 1.25" H (30.5MM x 31.75) <b>Mounting:</b> SURFACE MOUNT WITH INCLUDED SCREWS <b>Technical Remarks:</b> ONLY A 5/8" D HOLE IS REQUIRED TO ROUTE THE 1/4" FIBER BUNDLE (INCLUDED WITH FIXTURE) FROM THE FOCAL POINT TO THE ILLUMINATOR. <b>Cable Diameters:</b> 5/16" MAX <b>Max Fiber Capacity:</b> 300 FIBERS <b>Max Lamp Wattage:</b> 150W METAL HALIDE</p>	<p><b>Lens Adapter Specifications:</b> <b>Material:</b> ALUMINUM <b>Spot:</b> 40° SOFT TO HARD EDGE <b>Finish:</b> CLEAR OR BLACK ANODIZED</p>	<p><b>Lens Adaptor:</b></p>
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<p><b>Elevation:</b></p>	<p><b>Plan:</b></p>
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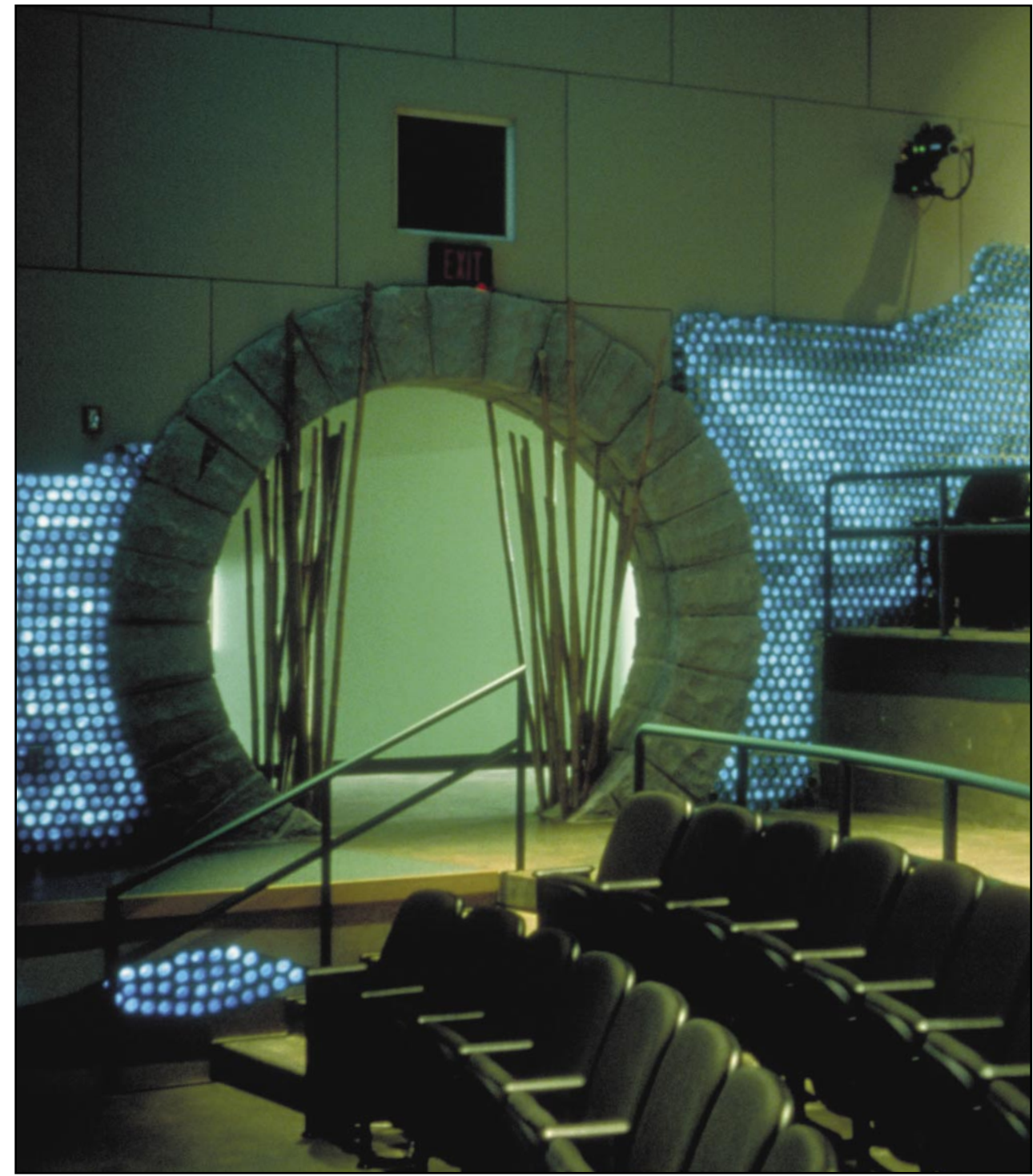
## MOUNTING BRACKET

**Description:**  
Used to mount linear extrusion fixture (LB, LBQR, LF, F and 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.

<b>LB-MB</b>	
<b>ordering guide</b>	<b>Finishes:</b> <b>S</b> STANDARD CLEAR ANODIZED <b>B</b> BLACK ANODIZED

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

**Isometrics:**



**Project:** Atlanta Zoo  
**Location:** Atlanta, Georgia



**Project:** Coastal Banc  
**Location:** Houston, Texas  
**Designer:** Linda Cummings Lighting Consultants, Inc.  
and Tara Wasmuth, Gensler, Houston

## STAR KITS

### **A complete solution in one box.**

Star Kits provide a complete solution for small and medium size star ceilings, floors or walls. These kits provide everything you need including an illuminator, fiber optic cable, drill bits, adhesive, and complete installation instructions. Star kits B and C also include additional fiber strands that are animated for a 7 to 14 foot long shooting star. The fiber optic cables are pre-ported at the factory to greatly simplify and accelerate the installation.

Most star points are created with Star 34/50, a cable designed specifically for star ceiling applications (shooting stars use our 0.75mm fiber). This cable combines 34 strands of end emitting fibers in each jacket, distributed as follows:

- 24 strands of 0.75mm fiber
- 7 strands of 1.0mm fiber
- 3 strands of 1.5mm fiber

The larger diameter fibers are brighter than the smaller diameter fibers. When installed into a ceiling, these cables replicate the differing magnitudes (brightness) of natural stars.

# STAR KITS

## suggestions\_specifications



### SUGGESTIONS

#### DENSITY

The appropriate density, or quantity of points in an area, is highly subjective. Most ceilings use between 1 and 6 points of light per square foot of surface area. Lower ceilings (less than 10 feet high) require more density than higher ceilings (more than 15 feet high) in order to look natural. Sparser layouts tend to look more natural, and denser layouts tend to look more glitzy.

#### DISTRIBUTION

Natural stars look splotchy. To best recreate the beauty of the natural sky, we urge you to vary the spacing between points. Some areas should have several stars together and other areas very few stars. Consider incorporating a dense Milky Way section into your project.

#### CONSTELLATIONS

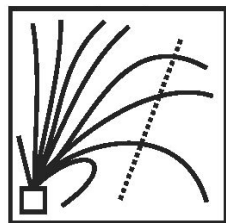
You may want to have a few stars that form a constellation. Use several larger strands of fiber in the same hole to make a constellation star point that is brighter than the other star points.

#### INSTALLATION

Install each illuminator in an accessible location that allows each cable to reach the ceiling with 3 feet of slack. Drill a hole through the ceiling and, working from above the ceiling, insert the proper size fiber through the hole, allowing it to protrude several inches into the room. Secure the fiber in place with adhesive. Allow the adhesive to dry. Clip the fibers to approximately 3/8 from the ceiling and apply a light coat of latex paint over the ceiling and fibers (optional). After the paint has dried, clip the fibers to 1/8, or to 1/4 if you prefer to allow for a future repainting and re-clipping.



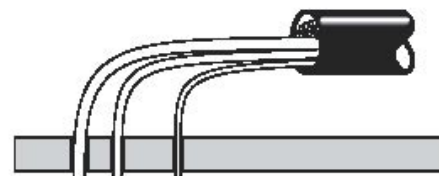
Plan View:



**Technical Remarks:**

LOCATE ILLUMINATOR(S) IN AN ACCESSIBLE, VENTILATED AREA. ROUTE CABLES TO LOCATIONS OF STAR POINTS. COIL EXCESS CABLE IF NEEDED. OPTIONAL SHOOTING STAR IS SHOWN.

Section View:



**Installation Sequence:**

PAINT CEILING, DRILL HOLES, INSERT FIBERS, ADHERE FIBERS IN PLACE, LIGHTLY REPAINT CEILING, TRIM FIBERS TO 1/8". LEAVING AN ADDITIONAL 1/8" WOULD ALLOW FOR FUTURE REPAINTING OF THE CEILING.

300 total points



### STAR KIT A

**Description:**  
Small Star Kit

**Specifications:**

**Intensity:** 300 TOTAL POINTS  
**Max Lit Length:** 9 CABLES OF STAR 34/50, 10 FEET LONG  
**Mounting:** DRILL HOLE, INSERT FIBER, SECURE WITH EPOXY OR ADHESIVE  
**Illuminator:** FS11L-SPW/NC-120-005  
**Technical Remarks:** SPARKLE WHEEL INCLUDED

500 total points



### STAR KIT B

**Description:**  
Medium Star Kit with shooting star

**Specifications:**

**Intensity:** 500 TOTAL POINTS  
**Max Lit Length:** 9 CABLES OF STAR 34/50, 10 FEET LONG; 200 SHOOTING STAR CABLES, 10 FEET LONG  
**Mounting:** DRILL HOLE, INSERT FIBER, SECURE WITH EPOXY OR ADHESIVE  
**Illuminator:** FS1L-SPW/NC-120  
**Technical Remarks:** SPARKLE WHEEL INCLUDED

800 total points



### STAR KIT C

**Description:**  
Large Star Kit with 2 shooting stars

**Specifications:**

**Intensity:** 800 TOTAL POINTS  
**Max Lit Length:** 18 CABLES OF STAR 34/50, 20 FEET LONG; 200 SHOOTING STARS, 20 FEET LONG  
**Mounting:** DRILL HOLE, INSERT FIBER, SECURE WITH EPOXY OR ADHESIVE  
**Illuminator:** FS1L-SPW/NC-120  
**Technical Remarks:** SPARKLE WHEEL INCLUDED