

Fiber Optics

Fiber Optic Lighting Solutions That Work



MAGIC LITE LTD.

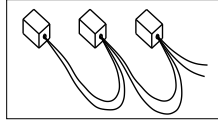
FIBER OPTIC SYSTEM BASICS

Description

A fiber optic lighting system consists of two, sometimes three components. The first component is the illuminator or light source. The second component is the fiber optic cable. An illuminator projects light into side-emitting fiber optic cable, which looks like flexible neon, or end-emitting fiber optic cable, which acts as point-source lighting. The potential third component is fixtures for end-emitting applications.

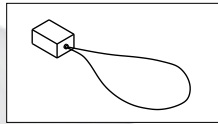
Side-Emitting Systems – Series

Fiber optic cable runs "daisy-chained" between illuminators which allows long continuous lengths.



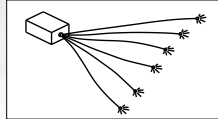
Side-Emitting Systems – Looped

Fiber optic cable lengths start and terminate in the same illuminator.



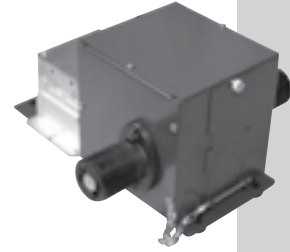
End-Emitting Systems

Fiber optic cable from one illuminator illuminates multiple fixtures or points of light.



Illuminators

Magic Lite offers illuminators using lamps as small as a 75 watt MR16 to as powerful as a 250 watt HID metal halide.



Fiber Optic Cable

Side-emitting BritePak®-III and SuperStars® fiber optic cable by Energy Focus Inc. come in several sizes. We recommend for side-emitting applications that both ends of the fiber optic cable are attached to an illuminator, either in a loop or "daisy-chained" between illuminators.

End-emitting FiberSpots® and Fire Rated fiber optic cable are available in a number of intensities. One end of the fiber optic cable is connected to an illuminator while the other end emits light for point-lighting applications.

Energy Focus BriteCore and OptiCore large core fiber optic cables are made of a single fiber ranging from 3.2mm to 12.7mm in diameter and are available in endlighting (OptiCore) and side light (BriteCore) versions.

Fixtures

Magic Lite offers a complete range of fixtures for decorative downlighting, landscape lighting and showcase applications. Fixtures produce no heat, ultraviolet radiation or noise and since there is no relamping at each fixture, maintenance is greatly reduced.

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LIGHT SOURCES

601 Illuminator

Description

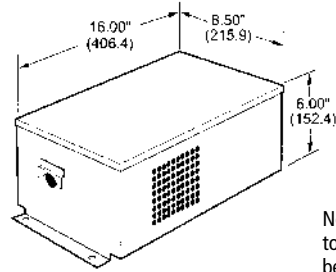
Brightest damp location fiber optic lighting illuminator.



Benefits

- Excellent for side-emitting applications
- U.L. listed for damp locations
- Accommodates all stranded fiber optic cable – up to 300 fibers
- 250 watt HID lamp rated for 2000 hours
- Optional Features: Colour Change, Synchronization, Variable Delay and DMX

Dimensions

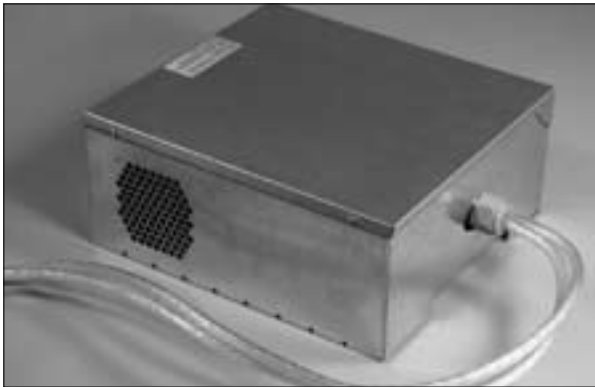


Note: add an additional 5" to length measurement for bending radius of fiber.

602 Illuminator

Description

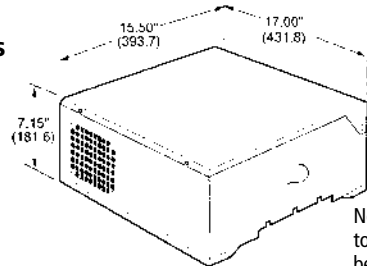
Brightest exterior fiber optic lighting illuminator.



Benefits

- Excellent for side-emitting outdoor applications
- U.L. listed for wet locations
- Accommodates all stranded fiber optic cable – up to 300 fibers
- 250 watt HID lamp rated for 2000 hours
- Optional Features: Colour Change, Synchronization, Variable Delay and DMX

Dimensions



Note: add an additional 5" to length measurement for bending radius of fiber.

405N Illuminator

Description

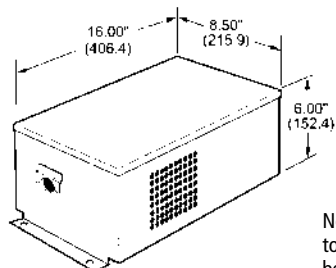
Most popular illuminator. Offers two colour temperatures.



Benefits

- Excellent for accent and downlighting applications
- U.L. listed for damp locations
- Accommodates all stranded fiber optic cable – up to 300 fibers
- 150 watt HID lamp (either 3000°K or 4000°K) rated for 6000 hours
- Optional Features: Colour Change, Synchronization, Variable Delay and DMX

Dimensions



Note: add an additional 5" to length measurement for bending radius of fiber.

LIGHT SOURCES

404N Illuminator

Description

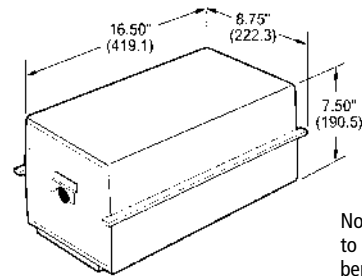
Popular exterior illuminator. Offers two colour temperatures.



Benefits

- Excellent for landscape lighting applications
- U.L. listed for wet locations
- Accommodates all stranded fiber optic cable – up to 300 fibers
- 150 watt HID lamp (either 3000°K or 4000°K) rated for 6000 hours
- Optional Features: Colour Change, Synchronization, Variable Delay and DMX

Dimensions

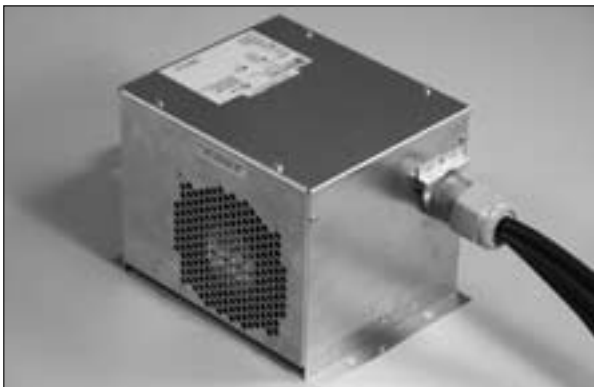


Note: add an additional 5" to length measurement for bending radius of fiber.

FS7L Illuminator

Description

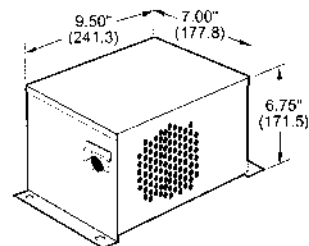
Brightest incandescent illuminator.



Benefits

- Small, compact, damp location illuminator.
- Good for case lighting, point of purchase displays and other compact applications
- U.L. listed for damp locations
- 183 watt quartz halogen lamp, 3000°K, rated for 700 hours
- Accommodates all stranded fiber optic cable – up to 300 fibers
- "Instant-On", dimming, and Synchronization

Dimensions



Note: add an additional 5" to length measurement for bending radius of fiber.

FS13L Illuminator

Description

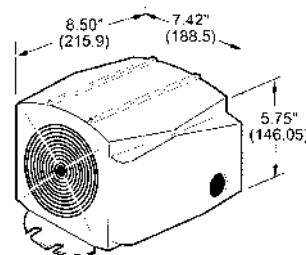
Dual lamp port, compact and quiet incandescent illuminator.



Benefits

- Good for case lighting, point of purchase displays or other compact applications
- U.L. listed for damp locations
- Dual 100 watt quartz halogen lamps, 3000°K, rated for 2000 hours
- Accommodates all stranded fiber optic cable
- "Instant-On" and dimming

Dimensions



Note: add an additional 5" to length measurement for bending radius of fiber.

LIGHT SOURCES

FS12L Illuminator

Description

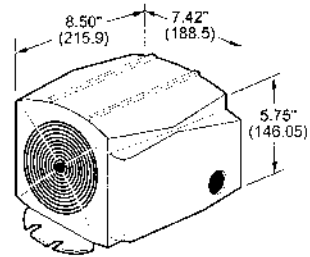
Quiet, compact incandescent illuminator.



Benefits

- Excellent for case lighting, point of purchase displays or other compact applications
- U.L. listed for damp locations
- 100 watt quartz halogen lamp, 3000°K, rated for 2000 hours
- Accommodates all stranded fiber optic cable
- "Instant-On" and dimming

Dimensions



Note: add an additional 5" to length measurement for bending radius of fiber.

FS11L Illuminator

Description

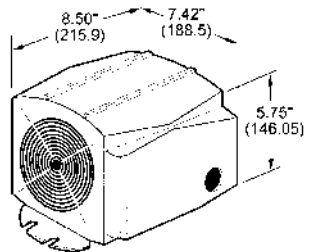
Quiet, compact incandescent illuminator.



Benefits

- Excellent for star ceilings and other end lit applications
- U.L. listed for damp locations
- 71 watt quartz halogen lamp, 3000°K, rated for 4000 hours
- Accommodates all stranded fiber optic cable
- "Instant-On" and dimming

Dimensions



Note: add an additional 5" to length measurement for bending radius of fiber.

FS1L Illuminator

Description

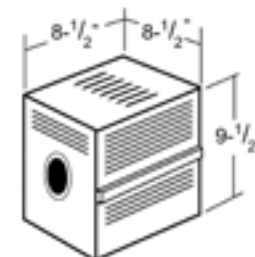
Fanless, excellent for animated effects.



Benefits

- U.L. listed for dry locations
- High fiber capacity for animated special effects – up to 3200 of .75mm fiber
- 71 watt quartz halogen lamp, 3200°K, rated for 4000 hours
- Instant on/off capacity
- Can also use 1.0mm, 1.5mm and 2.0mm stranded fibers

Dimensions



Note: add an additional 10" to length measurement for bending radius of fiber.

LIGHT SOURCES

EFO-4+4 Illuminator

Description

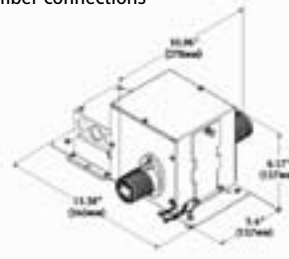
Excellent for commercial downlighting applications with large core fiber plug and play connectors.



Benefits

- U.L. listed for damp locations
- Fanless and silent
- Extremely energy efficient with patented CPC reflectors
- Accommodates up to eight 12/10mm large core fibers through dual ports
- 68 watt metal halide lamp, average rated life 10,000 hours
- Easy access for lamp replacement
- Plug and play fiber connections

Dimensions



EFO-3+3 Illuminator

Description

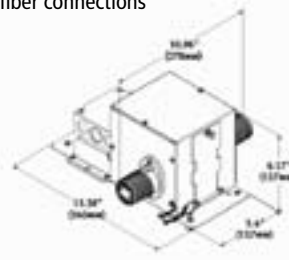
Excellent for commercial downlighting applications with large core fiber plug and play connectors.



Benefits

- U.L. listed for damp locations
- Fanless and silent
- Extremely energy efficient with patented CPC reflectors
- Accommodates up to six 14/12mm large core fibers through dual ports
- 68 watt metal halide lamp - average rated life 10,000 hours
- Easy access for lamp replacement
- Plug and play fiber connections

Dimensions



Note: add an additional 5" to length measurement for optical port.

Note: add an additional 12" to length measurement for bending radius of fiber.

EFO-1+1 Illuminator

Description

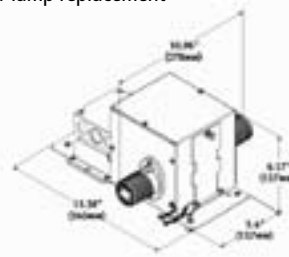
Excellent for commercial downlighting applications with both large core and stranded fiber.



Benefits

- U.L. listed for damp locations
- Fanless and silent
- Extremely energy efficient with patented CPC reflectors
- Accommodates 1000 stranded fibers and large core fiber harnesses through dual ports
- 68 watt metal halide lamp - average rated life 10,000 hours
- Easy access for lamp replacement

Dimensions



LIGHT SOURCES

EFO-AG Illuminator

Description

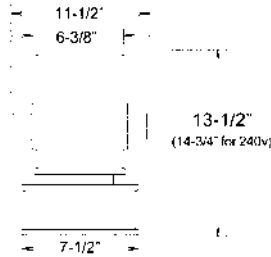
Excellent for outdoor landscape lighting applications with both large core and stranded fiber.



Benefits

- U.L. listed for wet locations
- Fanless, virtually silent & completely sealed
- Extremely energy efficient with patented CPC reflectors
- Accommodates 1000 stranded fibers and large core fiber harnesses through dual ports
- 68 watt metal halide lamp - average rated life 10,000 hours
- Available in 4+4, 3+3 and 1+1 models

Dimensions



LED Fiberlamp Standard

Description

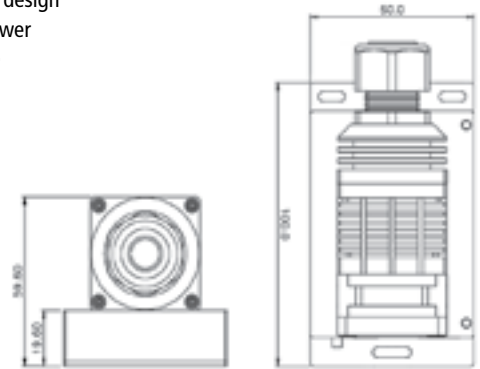
Dynamic, programmable colour animation in a compact size yet brighter than illuminators twice the size.



Benefits

- High efficiency LED light source
- Power consumption of 36 watts
- Low power compact design
- Standard 12V DC power
- DMX512 compatible

Dimensions



LED FiberLamp Fanless

Description

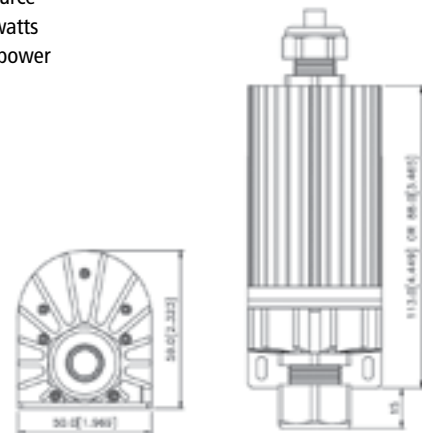
Same functionality as Standard FiberLamp™ for shorter runs. Quiet, fanless operations available in outdoor and indoor versions.



Benefits

- High efficiency LED light source
- Power consumption of 17 watts
- Requires standard 12V DC power
- Quiet fanless operation
- Low profile

Dimensions



Energy Focus EFO™

The Greenest Story Ever Told in Down Lighting

Energy Focus' EFO (Efficient Fiber Optics) is a breakthrough in accent lighting technology that changes the relationship between fiber optics and energy efficient lighting in a dramatic way. EFO's unique non-imaging optics transfer light efficiently from the source to the new EFO Opticore fiber.

One 70 watt EFO lamp delivers the centre beam candlepower of eight 50 watt MR16 halogen lamps – replacing a total of 400 watts! Energy Focus' EFO is the most efficient fiber optic lighting system in the world. It's more efficient than halogen and other incandescent lighting, as well as compact fluorescent lamps.

Simplicity

EFO is easy to specify. There are only three components – the illuminator, fiber and fixture. EFO fiber is custom cut at the factory and shipped to the job site ready to install in an easy "plug 'n play" manner. The FiberJacks simply plug into both the illuminator and the fixture.

Application

With its extreme efficiency and precise beam control, EFO is well suited for accent lighting and spot lighting in commercial and industrial settings. EFO is particularly suited for installations into T-Bar ceilings, and also appropriate for hard ceilings, display cases, elevator cabs, and many other locations.

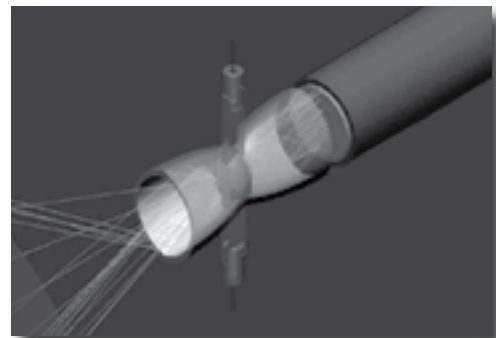
The Energy Focus team developed the deceptively simple-looking Compound Parabolic Collector (CPC), a patented device only about 10% of the size of a typical fiber optic lighting system reflector that captures more than twice the source light of a traditional reflector.



Energy Focus' EFO™ lighting system



EFO Large Core Fiber – End Emitting FiberJacks™



Inside EFO are patented CPC Optics that transmit light to fiber cables in a completely new way, redefining how fiber optic lighting works... and what it can do. In fact, the EFO system is under the protection of several of Energy Focus' 31 US patents.

EFO ACCENT FIXTURES

Interior Lensed / Unlensed

EFO-MBF MULTIBEAM FIXTURE, FIXED

Max. Overall Dimensions: 3.31" OD x 4.5" H (84 mm OD x 114 mm H)

Trim/Flange Dimensions: 3.31" OD x 0.25" H (84 mm OD x 6 mm H)

Aperture Dimensions: 2.0" OD (51 mm OD)

Rough-in: 2.63" (67 mm)

Beam Spread: 15°, 25°, 40° and 60°

Opticore Fibers: EFO-14/12 mm (MAX.)

Finish Options: WHITE, BLACK, GOLD

Recess: 14.0" (356 mm)

Bayonet: Attached to Fiber Tail



EFO-MBF-F MULTIBEAM FIXTURE, WITH FLEX ARM

Max. Overall Dimensions: 3.31" OD x 18.5" H (84 mm OD x 470 mm H)

Trim/Flange Dimensions: 3.31" OD x 0.25" H (84 mm OD x 6 mm H)

Aperture Dimensions: 2" OD (51 mm OD)

Rough-in: 2.63" (67 mm)

Beam Spread: 15°, 25°, 40° and 60°

Opticore Fibers: EFO-14/12 mm (MAX.)

Rotation Angle: 360°

Recess: 14.0" (356 mm)

Max. Tilt Angle: +/- 90°

Bayonet: Attached to Fiber Tail

Finish Options: WHITE, BLACK



EFO-FAW-18 FIXED AIM WALL WASHER

Max. Overall Dimensions: 3.75" OD x 4.5" H (95 mm OD x 114 mm H)

Trim/Flange Dimensions: 3.75" OD x 1.19" H (95 mm OD x 30 mm H)

Aperture Dimensions: 2" OD (51 mm OD)

Rough-in: 2.63" (67 mm)

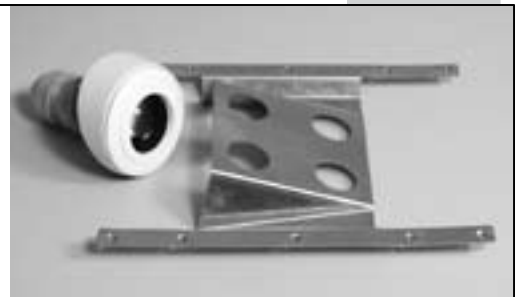
Beam Spread: 15°, 25°, 40° and 60°

Opticore Fibers: EFO-14/12 mm (MAX.)

Finish Options: WHITE, BLACK

Recess: 12.0" (305 mm)

Bayonet: Attached to Fiber Tail



EFO-LPS-25 or 60 LOW PROFILE, SIDE ENTRY

Available as T-Bar or Hard Ceiling Mount

Max. Overall Dimensions: 5.5" OD x 3.0" H (140 mm OD x 76 mm H)

Trim/Flange Dimensions: 5.5" OD x 0.06" H (140 mm OD x 2 mm H)

Aperture Dimensions: 4.13" OD (105 mm OD)

Rough-in: 4.5" (114 mm) / 4.88" (124 mm)

Beam Spread: 25° or 60°

Opticore Fibers: EFO-17/15 mm (MAX.)

Finish Options: WHITE, BLACK

Recess: 3.0" (76 mm)

Bayonet: Attached to Fiber Tail



EFO ACCENT FIXTURES

Interior Lensed Beam Softeners & Effect Filters

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

Max. Overall Dimensions: 21.38" L x 6.25" W x 4.63" H (543 mm L x 159 mm W x 118 mm H)
Trim/Flange Dimensions: 21.38" L x 6.25" W x 0.13" H (543 mm L x 159 mm W x 3 mm H)
Aperture Dimensions: 2.0" OD (51 mm OD) per lens

Rough-in: 20.3" x 5.5" (516 mm x 140 mm) **Beam Spread:** 15°, 25°, 40° and 60°
Opticore Fibers: EFO-14/12 mm (MAX.) **Rotation Angle:** 360°
Recess: 14.0" (356 mm) **Max. Tilt Angle:** +/- 31°
Bayonet: Attached to Fiber Tail **Finish Options:** WHITE, BLACK



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

Max. Overall Dimensions: 16.38" L x 6.25" W x 4.63" H (416 mm L x 159 mm W x 118 mm H)
Trim/Flange Dimensions: 16.38" L x 6.25" W x 0.13" H (416 mm L x 159 mm W x 3 mm H)
Aperture Dimensions: 2.0" OD (51 mm OD) per lens

Rough-in: 15.63" x 5.5" (397 mm x 140 mm) **Beam Spread:** 15°, 25°, 40° and 60°
Opticore Fibers: EFO-14/12 mm (MAX.) **Rotation Angle:** 360°
Recess: 14.0" (356 mm) **Max. Tilt Angle:** +/- 31°
Bayonet: Attached to Fiber Tail **Finish Options:** WHITE, BLACK



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

Max. Overall Dimensions: 11.38" L x 6.25" W x 4.63" H (289 mm L x 159 mm W x 118 mm H)
Trim/Flange Dimensions: 11.38" L x 6.25" W x 0.13" H (289 mm L x 159 mm W x 3 mm H)
Aperture Dimensions: 2.0" OD (51 mm OD) per lens

Rough-in: 10.63" x 5.25" (397 mm x 133 mm) **Beam Spread:** 15°, 25°, 40° and 60°
Opticore Fibers: EFO-14/12 mm (MAX.) **Rotation Angle:** 360°
Recess: 14.0" (356 mm) **Max. Tilt Angle:** +/- 31°
Bayonet: Attached to Fiber Tail **Finish Options:** WHITE, BLACK



EFO-AAL-1R ADJUSTABLE ACCENT LIGHT SINGLE SPOT

Max. Overall Dimensions: 6.38" L x 6.25" W x 4.63" H (162 mm L x 159 mm W x 118 mm H)
Trim/Flange Dimensions: 6.38" L x 6.25" W x 0.13" H (162 mm L x 159 mm W x 3 mm H)
Aperture Dimensions: 2.0" OD (51 mm OD) per lens

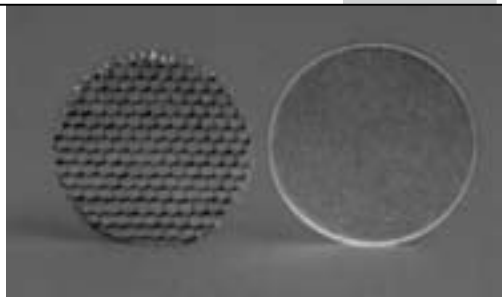
Rough-in: 5.63" x 5.5" (397 mm x 140 mm) **Beam Spread:** 15°, 25°, 40° and 60°
Opticore Fibers: EFO-14/12 mm (MAX.) **Rotation Angle:** 360°
Recess: 14.0" (356 mm) **Max. Tilt Angle:** +/- 31°
Bayonet: Attached to Fiber Tail **Finish Options:** WHITE, BLACK




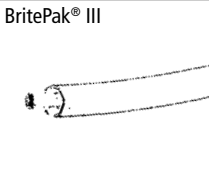

MBF-SOL & MBF-HEX BEAM EFFECT FILTERS


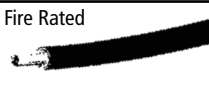


MBF-SOL Diameter: 2.0" (51 mm)
MBF-SOL Thickness: 0.125" (3.1 mm)
For use with: EFO-MBF, EFO-MBF-F, EFO-FAW and EFO-AAL fixtures

MBF-HEX Diameter: 2.0" (51 mm)
MBF-HEX Thickness: 0.128" (3.25 mm)
For use with: EFO-MBF, EFO-MBF-F, EFO-FAW and EFO-AAL fixtures










FIBER OPTIC CABLES

SIDE-EMITTING	Part Number	# of Fibers or Inner Diameter	Outer Diameter	Outer Tubing	Max. Spool Length
	FS-EFO-BC1300	12 mm	13 mm	clear PVC	75'
	FS-EFO-BC1400-E	12 mm	14 mm	clear PVC	75'
	FS-EFO-TT1300	12 mm	13 mm	clear PVC	75'
	FS-EFO-TT1400-E	12 mm	14 mm	clear PVC	75'
	FS-BPAK-15	14 fibers, cabled	3/16"	clear PVC	1000' spool
	FS-BPAK-40	42 fibers, cabled	1/4"	clear PVC	1000' spool
	FS-BPAK-50	49 fibers, cabled	5/16"	clear PVC	1000' spool
	FS-BPAK-75	77 fibers, cabled	3/8"	clear PVC	800' spool
	FS-BPAK-100	98 fibers, cabled	7/16"	clear PVC	600' spool
	FS-BPAK-150	140 fibers, cabled	9/16"	clear PVC	500' spool
	FS-SS-15	14 fibers, cabled	3/16"	1.25" on centre	1000' spool
	FS-SS-50	49 fibers, cabled	5/16"	1.75" on centre	1000' spool

END-EMITTING	Part Number	# of Fibers or Inner Diameter	Outer Diameter	Outer Tubing	Max. Spool Length
	FSPT-1	1 fiber, loose	0.16"	black PVC	1000' spool
	FSPT-2	2 fibers, loose	0.14"	black PVC	1000' spool
	FSPT-3	3 fibers, loose	0.14"	black PVC	1000' spool
	FSPT-5	5 fibers, loose	0.20"	black PVC	1000' spool
	FSPT-8	8 fibers, loose	0.22"	black PVC	1000' spool
	FSPT-10	10 fibers, loose	0.24"	black PVC	1000' spool
	FSPT-12	12 fibers, loose	0.25"	black PVC	1000' spool
	FSPT-18	18 fibers, loose	0.25"	black PVC	1000' spool
	FSPT-25	25 fibers, loose	0.27"	black PVC	1000' spool
	FSPT-30	30 fibers, loose	0.27"	black PVC	1000' spool
	FSPT-50	50 fibers, loose	0.40"	black PVC	1000' spool
	FSPT-62	62 fibers, loose	0.42"	black PVC	1000' spool
	FSPT-75	75 fibers, loose	0.44"	black PVC	1000' spool
	FSPT-100	100 fibers, loose	0.52"	black PVC	600' spool
	FSPT-150	150 fibers, loose	0.58"	black PVC	500' spool
	FS-FRFS-25	25 fibers, loose	0.59"	white PVC	500' spool
	FS-FRFS-50	50 fibers, loose	0.59"	white PVC	500' spool
	FS-FRFS-75	75 fibers, loose	0.59"	white PVC	500' spool
	FS-EFO-9/8MM	8 mm	9 mm	black PVC	Custom length 5' to 25'
	FS-EFO-12/10MM	10 mm	12 mm	black PVC	Custom length 5' to 25'
	FS-EFO-14/12MM	12 mm	14 mm	black PVC	Custom length 5' to 25'
	FS-EFO-17/15MM	15 mm	17 mm	black PVC	Custom length 5' to 25'
	FS-EFO-22/19MM	19 mm	22 mm	black PVC	Custom length 5' to 25'
	FS-EFO-FJ-12/10MM-10	10 mm	12 mm	black PVC	10' standard length
	FS-EFO-FJ-12/10MM-XX	10 mm	12 mm	black PVC	Custom length up to 25'
	FS-EFO-FJ-14/12MM-10	12 mm	14 mm	black PVC	10' standard length
	FS-EFO-FJ-14/12MM-XX	12 mm	14 mm	black PVC	Custom length up to 25'
	FS-EFO-FJ-17/15MM-10	15 mm	17 mm	black PVC	10' standard length
	FS-EFO-FJ-17/15MM-XX	15 mm	17 mm	black PVC	Custom length up to 25'

XX – Custom lengths available upon request

Single Strand Fibers	Item Number	Fiber Diameter
	SD-FBR-50	0.50 mm
	SD-FBR-75	0.75 mm
	SD-FBR-1	1.00 mm
	SD-FBR-1.5	1.50 mm
	SD-FBR-2	2.00 mm
	SD-FBR-2.5	2.50 mm
	SD-FBR-3	3.00 mm

General Installation Guidelines

- Always use a hot knife (FS-118 or FS-163) for cutting the fiber optic cable at the optical ports and the fixtures.
- Plan for 3 feet of extra fiber optic cable at each end at the illuminator for a service loop.
- Recommended minimum bend radius is 4 X diameter for stranded fibers and 8 X diameter for large core fibers.
- Uncoil fiber optic cable before installation.
- When project installation permits, Magic Lite can pre-harness your Fiber Optic port and diamond polish it giving up to 20% more light output.

Fiber Optic APPLICATIONS



Holt Renfrew



Dead Sea Scrolls

DISPLAYS

Fiber Optics is ideal for lighting display cabinets. Choose from our variety of fixtures to produce precisely controlled, cool lighting. Security issues are eliminated when lighting valuables such as jewelry or museum show cases, since the light source is housed in a separate compartment from displayed items.

Magic Lite's CARO system effectively lights a variety of cabinets as shown. CARO bars with rows of fibers create a multi faceted flood of light, which makes diamonds and jewelry sparkle. Items such as cosmetics and film are safely lit without damage from heat or ultra violet light associated with regular light sources. The tiny "Jesse" fixtures are aimable allowing for the highlighting of specific items within a case.

A well-designed fiber optic system eliminates heat, UV and security concerns, while providing eye-catching displays that work. Retailers have reported sales increases as high as 40% after switching to a fiber optic lighting system from Magic Lite!

M.H. deYoung Museum



M.H. deYoung Museum



Birks Jewellers

DECORATIVE

TapeLite Ribbon Fiber Optic is used to cover this bar top creating a dramatic focal point. 16 LED Illuminators were used, 8 on each end, to illuminate 8 - 3 inch wide TapeLite cables. The system is DMX programmable for countless colour change options.

Magic Lite has produced hundreds of fiber optic star ceilings that twinkle and change colour on demand. The dramatic ceiling installed in the Montreal Casino has thousands of points of light, while the home theatre has a few hundred points creating a soothing and entertaining effect.

Bar top



Theatre design and installation by Howell & Associates Inc., Burlington, Ontario, Canada www.howellandassociates.com

The Delta Centre-Ville in Montreal chose fiber optics to create an attractive lighting effect in this canopy over the hotel's main entrance. Hundreds of light points are created with only a few illuminators providing an extremely attractive effect with low maintenance and energy costs.

CARO fiber optic bars light this chrome lettered sign eliminating glare and reducing energy consumption and maintenance costs.

Southcreek sign detail



Southcreek sign



Montreal Casino



Delta Centre-Ville

ACCENT FIXTURES

Interior Fixed Lensed

FE-1111 FIBERESCENT FIXED AIMED DOWNLIGHT

Max. Overall Dimensions: 1.75" OD x 1.38" H (44.4 mm OD x 35.1 mm H)
Trim/Flange Dimensions: 1.75" OD x 0.085" H (44.4 mm OD x 2.16 mm H)
Aperture Dimensions: 0.72" OD (18.29 mm OD)

Rough-in: 1.375" (34.9 mm) Beam Spread: 15 (MIN.) – 35 (MAX.)
Recess: 3" (76.2 mm) Finish Options: WHITE, BLACK, GOLD, SILVER
FSPT Fibers: 75 (MAX.)
Ferrules: A10516



LBM061108301 4 DEGREE LENS

Max. Overall Dimensions: 0.276" OD x 0.551" H (7 mm OD x 14 mm H)
Trim/Flange Dimensions: 0.276" OD x 0.098" H (7 mm OD x 2.5 mm H)
Aperture Dimensions: 0.276" OD (7 mm OD)

Rough-in: 0.256" (6.6 mm) Beam Spread: 4 (MIN.) – 4 (MAX.)
Recess: 0.453" (11.5 mm) Finish Options: CLEAR
FSPT Fibers: 1 (MAX.)
Ferrules: INCLUDED



LBM061108304 20 DEGREE LENS

Max. Overall Dimensions: 0.433" OD x 0.709" H (11 mm OD x 18 mm H)
Trim/Flange Dimensions: 0.433" OD x 0.315" H (11 mm OD x 8 mm H)
Aperture Dimensions: 0.433" OD (11 mm OD)

Rough-in: 0.315" (8 mm) Beam Spread: 20 (MIN.) – 20 (MAX.)
Recess: 0.394" (10 mm) Finish Options: CLEAR
FSPT Fibers: 1 (MAX.)
Ferrules: INCLUDED



LBM061209118, LBM061209119 STEP OR WALL LIGHT

Max. Overall Dimensions: 2.441" OD x 1.181" H (62 mm OD x 30 mm H)
Trim/Flange Dimensions: 2.441" OD x 1.181" H (62 mm OD x 30 mm H)
Aperture Dimensions: 1.496" OD (38 mm OD)

Rough-in: 1.654" (42 mm) Beam Spread: 60 (MIN.) – 60 (MAX.)
Recess: 1.102" (28 mm) Finish Options: BLACK-118, SILVER-119
FSPT Fibers: 75 (MAX.)
Ferrules: 8 mm, 10 mm



ACCENT FIXTURES

Interior Fixed Unlensed

HPDL-24 & HDPL-15 HIGH CUT-OFF SPOTLIGHT, 24 or 15-DEGREE

Max. Overall Dimensions: 2.43" OD x 3" H (61.7 mm OD x 76.2 mm H)
Trim/Flange Dimensions: 2.43" OD x 0.083" H (61.7 mm OD x 2.1 mm H)
Aperture Dimensions: 1.3" OD (33 mm OD) / 0.94" OD (23.9 mm OD)

Rough-in: 1.5" (38.1 mm) Beam Spread: 15 (MIN.) – 24 (MAX.)
Recess: 3" (76.2 mm) Finish Options: CHROME
FSPT Fibers: 50 or 75 Only
Ferrules: INCLUDED



CRE1119 90-DEGREE MIRROR

Max. Overall Dimensions: 0.75" OD x 1.375" H (19 mm OD x 34.9 mm H)
Trim/Flange Dimensions: 0.75" OD x 1.375" H (19 mm OD x 34.9 mm H)
Aperture Dimensions: 0.75" OD (19 mm OD)

Rough-in: 1" (25.4 mm) Beam Spread: 60 (MIN.) – 60 (MAX.)
Recess: 0.8125" (20.6 mm) Finish Options: BLACK, SILVER
FSPT Fibers: 50 (MAX.)
Ferrules: 8 mm



CRE-1001 LENSED FULLY ADJUSTABLE

Max. Overall Dimensions: 2" OD x 2.441" H (50.8 mm OD x 62 mm H)
Trim/Flange Dimensions: 2" OD x 1.614" H (50.8 mm OD x 41 mm H)
Aperture Dimensions: 1.181" OD (30 mm OD)

Rough-in: 1.575" (40 mm) Beam Spread: 15 (MIN.) – 25 (MAX.)
Recess: 0.826" (21 mm) Rotation Angle: 360
FSPT Fibers: 50 (MAX.) Max. Tilt Angle: +/- 40
Ferrules: 8 mm Finish Options: WHITE, BLACK, GOLD, CHROME



FE-2211 FIBERESCENT, ADJUSTABLE AIM

Max. Overall Dimensions: 2" OD x 1.38" H (50.8 mm OD x 35.1 mm H)
Trim/Flange Dimensions: 2" OD x 0.083" H (50.8 mm OD x 2.11 mm H)
Aperture Dimensions: 0.753" OD (19.13 mm OD)

Rough-in: 1.625" (41.3 mm) Beam Spread: 15 (MIN.) – 35 (MAX.)
Recess: 3" (76.2 mm) Max. Tilt Angle: +/- 20
FSPT Fibers: 75 (MAX.) Finish Options: WHITE, BLACK, GOLD, CHROME
Ferrules: A10516



CRE2225 MINIATURE LENSED SPOTLIGHT

Max. Overall Dimensions: 1.654" OD x 1.654" H (42 mm OD x 42 mm H)
Trim/Flange Dimensions: 1.181" OD (30 mm OD)
Aperture Dimensions: 0.866" OD (22 mm OD)

FSPT Fibers: 75 (MAX.) Beam Spread: 17 (MIN.) – 17 (MAX.)
Ferrules: 10 mm THREADED Rotation Angle: 360
Max. Tilt Angle: +/- 30
Finish Options: SILVER, BLACK



ACCENT FIXTURES

Interior Fixed Unlensed

CRE2231 MINIATURE ADJUSTABLE LENSED DOWNLIGHT

Max. Overall Dimensions: 1.25" OD x 1" H (31.8 mm OD x 40 mm H)
Trim/Flange Dimensions: 1.25" OD x 0.045" H (31.8 mm OD x 1.14 mm H)
Aperture Dimensions: 0.6" OD (20 mm OD)

Rough-in: 1" (25.4 mm) **Beam Spread:** 28 (MIN.) – 32 (MAX.)
Recess: 1.375" (34.9 mm) **Max. Tilt Angle:** +/- 30
FSPT Fibers: 75 (MAX.) **Finish Options:** WHITE, BLACK, CHROME, BRASS
Ferrules: 10 mm THREADED



Interior Adjustable Lensed

LBM06100822 EXTENDED LENSED FIXTURE

Max. Overall Dimensions: 1" OD x 1.75" H (25.4 mm OD x 44.4 mm H)
Aperture Dimensions: 0.75" OD (19 mm OD)

FSPT Fibers: 62 (MAX.) **Beam Spread:** 15 (MIN.) – 35 (MAX.)
Ferrules: 8 mm, 10 mm **Rotation Angle:** 360
Max. Tilt Angle: +/- 90
Finish Options: STAINLESS STEEL



LBMFLEX-LG(L)/LBMFLEX-SM FLEXIBLE TUBE

Max. Overall Dimensions (SM): 0.43" OD (10.92 mm OD)
0.15" ID (3.81 mm ID)
0.35" RECESS (8.89 mm RECESS)
Max. Overall Dimensions(LG(L)): 0.72" OD (18.29 mm OD)
0.35" ID (8.89 mm ID)
0.5" RECESS (12.7 mm RECESS)
Aperture Dimensions: (LG(L)): 0.78" OD (19.81 mm OD)

FSPT Fibers (SM): 25 (MAX.) **Beam Spread:** 48 (MIN.) – 60 (MAX.)
FSPT Fibers (LG(L)): 75 (MAX.) **Rotation Angle:** 360
Max. Tilt Angle: +/- 180
Finish Options: WHITE, BLACK, GOLD,
SILVER, CHROME, BRASS



ACCENT FIXTURES

Interior Adjustable Unlensed

LBM061001251 CASELIGHT 1

Max. Overall Dimensions: 1.723" OD x 1.949" H (44 mm OD x 49.5 mm H)
Trim/Flange Dimensions: 1.723" OD x 0.079" H (44 mm OD x 2 mm H)
Aperture Dimensions: 0.748" OD (19 mm OD)

Rough-in: 1.457" (37 mm) Beam Spread: 24 (MIN.) – 48 (MAX.)
Recess: 0.689" (17.5 mm) Rotation Angle: 360
FSPT Fibers: 62 (MAX.) Max. Tilt Angle: +/- 32
Ferrules: 8 mm Finish Options: BLACK



LBM061001252 CASELIGHT 2

Max. Overall Dimensions: 1.723" OD x 1.28" H (44 mm OD x 32.5 mm H)
Trim/Flange Dimensions: 1.723" OD x 0.079" H (44 mm OD x 2 mm H)
Aperture Dimensions: 0.472" OD (12 mm OD)

Rough-in: 1.457" (37 mm) Beam Spread: 48 (MIN.) – 60 (MAX.)
Recess: 0.689" (17.5 mm) Rotation Angle: 360
FSPT Fibers: 62 (MAX.) Max. Tilt Angle: +/- 32
Ferrules: 8 mm Finish Options: BLACK



LBM061001253 CASELIGHT 3

Max. Overall Dimensions: 1.723" OD x 0.984" H (44 mm OD x 25 mm H)
Trim/Flange Dimensions: 1.723" OD x 0.079" H (44 mm OD x 2 mm H)
Aperture Dimensions: 0.315" OD (8 mm OD)

Rough-in: 1.457" (37 mm) Beam Spread: 48 (MIN.) – 60 (MAX.)
Recess: 0.689" (17.5 mm) Rotation Angle: 360
FSPT Fibers: 62 (MAX.) Max. Tilt Angle: +/- 32
Ferrules: 8 mm Finish Options: BLACK



LBM06100524 CASELIGHT 4

Max. Overall Dimensions: 0.984" OD x 1" H (25 mm OD x 25.4 mm H)
Trim/Flange Dimensions: 0.984" OD x 0.059" H (25 mm OD x 1.5 mm H)
Aperture Dimensions: 0.571" OD (14.5 mm OD)

Rough-in: 0.787" (20 mm) Beam Spread: 40 (MIN.) – 40 (MAX.)
Recess: 0.945" (24 mm) Finish Options: BLACK
FSPT Fibers: 62 (MAX.)
Ferrules: 8 mm



LBM06100624 CASELIGHT 5

Max. Overall Dimensions: 1.89" OD x 2.087" H (48 mm OD x 53 mm H)
Trim/Flange Dimensions: 1.89" OD x 0.079" H (48 mm OD x 2 mm H)
Aperture Dimensions: 0.748" OD (19 mm OD)

Rough-in: 1.693" (43 mm) Beam Spread: 24 (MIN.) – 48 (MAX.)
Recess: 1.358" (34.5 mm) Rotation Angle: 360
FSPT Fibers: 62 (MAX.) Max. Tilt Angle: +/- 32
Ferrules: 8 mm Finish Options: BLACK



ACCENT FIXTURES

Interior Fixed Unlensed

CRE2224 MINIATURE SPOTLIGHT

Max. Overall Dimensions: 1.875" OD x 1.5" H (30.2 mm OD x 38.1 mm H)
Aperture Dimensions: 0.625" OD (15.9 mm OD)

FSPT Fibers: 75 (MAX.) Beam Spread: 48 (MIN.) – 48 (MAX.)
Ferrules: Threaded Rotation Angle: 360
8 mm, 10 mm Max. Tilt Angle: 30
Finish Options: SILVER, BLACK



LBM06100222 LENSELESS AIMABLE FIXTURE

Max. Overall Dimensions: 1.575" OD x 1.181" H (40 mm OD x 30 mm H)
Trim/Flange Dimensions: 1.575" OD x 0.79" H (40 mm OD x 20.1 mm H)
Aperture Dimensions: 0.315" OD (8 mm OD)

Rough-in: 1.181" (30 mm) Beam Spread: 48 (MIN.) – 48 (MAX.)
Recess: 1.181" (30 mm) Rotation Angle: 360
FSPT Fibers: 62 (MAX.) Max. Tilt Angle: +/- 25
Ferrules: 8 mm Finish Options: SILVER



Exterior Adjustable

CRE2223 STEM MOUNTED SPOTLIGHT

Max. Overall Dimensions: 4" OD x 3" H (102 mm OD x 76.2 mm H)
Trim/Flange Dimensions: 1.722" OD (45 mm OD)
Aperture Dimensions: 1.062" OD (27 mm OD)

FSPT Fibers: 75 (MAX.) Beam Spread: 15 (MIN.) – 15 (MAX.)
Ferrules: 8 mm, 10 mm Rotation Angle: 360
Max. Tilt Angle: +/- 30
Finish Options: STAINLESS STEEL



CRE2610 BURIED ADJUSTABLE SPOTLIGHT

Max. Overall Dimensions: 3.78" OD x 4" H (96 mm OD x 102 mm H)
Trim/Flange Dimensions: 3.78" OD x 0.413" H (96 mm OD x 10.5 mm H)
Aperture Dimensions: 1.654" OD (42 mm OD)

Rough-in: 3.543" (90 mm) Beam Spread: 17 (MIN.) – 17 (MAX.)
Recess: 6.5" (165 mm) Rotation Angle: 360
FSPT Fibers: 75 (MAX.) Max. Tilt Angle: +/- 25
Ferrules: 8 mm, 10 mm Finish Options: STAINLESS STEEL



LBM06120420 ROUND, RECESSED ADJUSTABLE ACCENT

Max. Overall Dimensions: 2.559" OD x 1.654" H (65 mm OD x 42 mm H)
Trim/Flange Dimensions: 2.559" OD x 0.354" H (65 mm OD x 9 mm H)
Aperture Dimensions: 0.75" OD (19 mm OD)

Rough-in: 1.575" (40 mm) Beam Spread: 15 (MIN.) – 35 (MAX.)
Recess: 3" (76.2 mm) Rotation Angle: 360
FSPT Fibers: 75 (MAX.) Max. Tilt Angle: +/- 30
Ferrules: 8 mm, 10 mm Finish Options: STAINLESS STEEL



UNDERWATER FIXTURES

Exterior Fixed Lensed

CRE2153 LENSED FOUNTAIN SPOTLIGHT

Max. Overall Dimensions: 1.063" OD x 3.15" H (27 mm OD x 80 mm H)
Trim/Flange Dimensions: 1.063" OD (27 mm OD)
Aperture Dimensions: 1" OD (2.54 mm OD)

FSPT Fibers: 75 (MAX.) Beam Spread: 17 (MIN.) – 17 (MAX.)
Ferrules: 8 mm, 10 mm Finish Options: STAINLESS STEEL



LBM061208202

Max. Overall Dimensions: 1.338" OD x 1.639" H (34 mm OD x 43 mm H)
Trim/Flange Dimensions: 1.338" OD x 0.079" H (34 mm OD x 2 mm H)
Aperture Dimensions: 0.75" OD (19 mm OD)

Rough-in: 1" (25.4 mm) Beam Spread: 15 (MIN.) – 35 (MAX.)
Recess: 1.496" (38 mm) Finish Options: STAINLESS STEEL
FSPT Fibers: 75 (MAX.)
Ferrules: 8 mm, 10 mm



LBM06100819, LBM06100820 LENSED FOUNTAIN SPOTLIGHT

Max. Overall Dimensions: 1.772" OD x 1.693" H (45 mm OD x 30 mm H)
Trim/Flange Dimensions: 1.772" OD x 0.118" H (45 mm OD x 3 mm H)
Aperture Dimensions: 0.75" OD (19 mm OD)

Rough-in: 0.866" (22 mm) Beam Spread: 15 (MIN.) – 35 (MAX.)
Recess: 1.063" (27 mm) Finish Options: STAINLESS STEEL 819, BRONZE 820
FSPT Fibers: 75 (MAX.)
Ferrules: 8 mm, 10 mm



LNS-100 & LNS-225 UNDERWATER LENSED FIXTURE

Max. Overall Dimensions: 3.5" OD x 1.75" H (88.9 mm OD x 44.4 mm H)
Lens Dimensions: 2.18" OD (55.4 mm OD)

Rough-in: 2.5" (63.5 mm) Finish Options: BLACK, WHITE
FSPT Fibers: 100 and 225 (MAX.)
Ferrules: INCLUDED



Exterior Adjustable Lensed

LBM06102121 YOKE MOUNTED UNDERWATER ACCENT

Max. Overall Dimensions: 2.19" OD x 2.81" H (55.6 mm OD x 71.4 mm H)
Aperture Dimensions: 0.792" OD (20.12 mm OD)

FSPT Fibers: 75 (MAX.) Beam Spread: 15 (MIN.) – 35 (MAX.)
Ferrules: 8 mm, 10 mm Rotation Angle: 360
Max. Tilt Angle: +/- 90
Finish Options: STAINLESS STEEL



PAVER FIXTURES

FS-712 SMALL OR FS-713 LARGE POURED-IN PLACE PAVER

Max. Overall Dimensions: 1" OD x 2.125" H (25.4 mm OD x 54 mm H)
Aperture Dimensions: 0.187" OD (4.7 mm OD) / 0.38" OD (9.7 mm OD)

FSPT Fibers: 12 (MAX.) Finish Options: CLEAR
Ferrules: INCLUDED



Exterior Fixed Unlensed

CRE1210 DOMED PAVER

Max. Overall Dimensions: 1.496" OD x 2.638" H (38 mm OD x 67 mm H)
Trim/Flange Dimensions: 1.496" OD x 0.472" H (38 mm OD x 12 mm H)
Aperture Dimensions: 1.063" OD (27 mm OD)

Rough-in: 1.25" (31.8 mm) Finish Options: STAINLESS STEEL
Recess: 2.165" (55 mm) Lens Options: FROSTED, CLEAR
FSPT Fibers: 75 (MAX.)
Ferrules: 8 mm, 10 mm



CRE2321 SMALL SCREW-FIX PAVER

Max. Overall Dimensions: 1.909" OD x 2.559" H (48.5 mm OD x 65 mm H)
Trim/Flange Dimensions: 1.909" OD x 0.069" H (48.5 mm OD x 1.75 mm H)
Aperture Dimensions: 0.709" OD (18 mm OD)

Rough-in: 1.5" (38.1 mm) Finish Options: STAINLESS STEEL
Recess: 2.559" (65 mm) Lens Options: FROSTED, CLEAR
FSPT Fibers: 75 (MAX.)
Ferrules: 8 mm, 10 mm



CRE2322 LARGE SCREW-FIX PAVER

Max. Overall Dimensions: 2.362" OD x 2.756" H (60 mm OD x 70 mm H)
Trim/Flange Dimensions: 2.362" OD x 0.069" H (60 mm OD x 1.75 mm H)
Aperture Dimensions: 0.945" OD (24 mm OD)

Rough-in: 1.535" (39 mm) Finish Options: STAINLESS STEEL
Recess: 2.756" (70 mm) Lens Options: FROSTED, CLEAR
FSPT Fibers: 75 (MAX.)
Ferrules: 8 mm, 10 mm



CRE2302 SPRING ADAPTOR

Spring adaptor for CRE1209, CRE2320, CRE2322, CRE2323



CARO™ DISPLAY LIGHTING

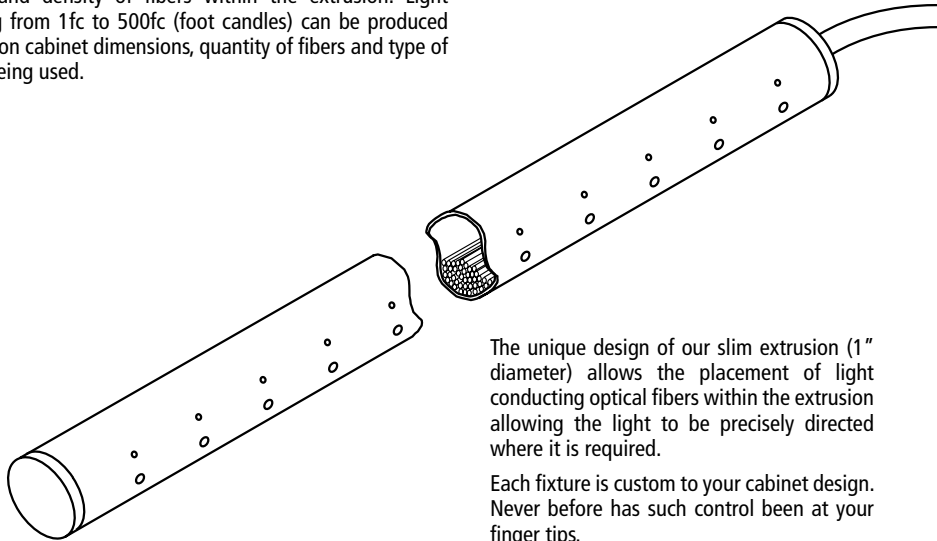
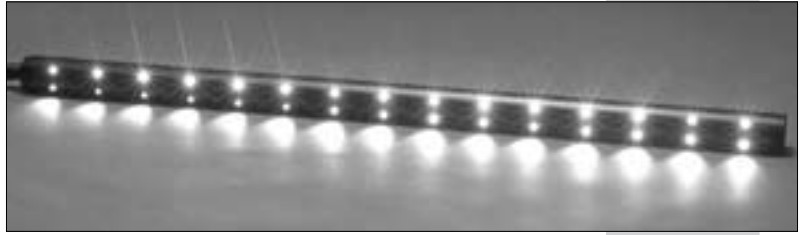
Fiber Optic Display Lighting

Caro™ is a unique fiber optic tool for delivering even light levels on the display cabinet surface regardless of its dimensions. Our round profile extrusion allows specific placement of fibers within the extrusion giving precise placement of light within the cabinet.

In addition, our adjustable Jesse fixtures allow the spotlighting of objects within the display case giving dramatic and powerful merchandising effects. All this light control without the heat and harmful UV associated with traditional lighting systems.

The Fiber Optic Display Lighting System is also ideal for wall wash lighting effects or for highlighting architectural features. Colour or sparkle wheels are available for additional dramatic effects.

Varying degrees of brightness are available by simply specifying the number and density of fibers within the extrusion. Light levels ranging from 1fc to 500fc (foot candles) can be produced depending upon cabinet dimensions, quantity of fibers and type of light source being used.



The unique design of our slim extrusion (1" diameter) allows the placement of light conducting optical fibers within the extrusion allowing the light to be precisely directed where it is required.

Each fixture is custom to your cabinet design. Never before has such control been at your finger tips.



Extrusion

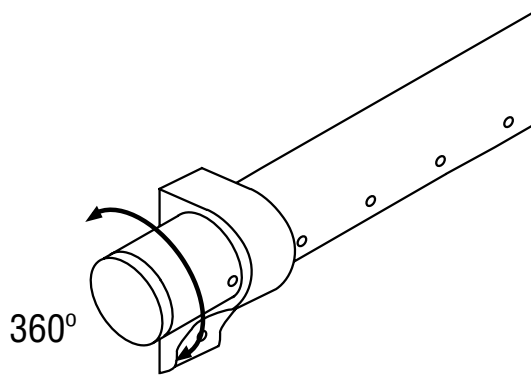


Jesse Fixture



Mounting Bracket

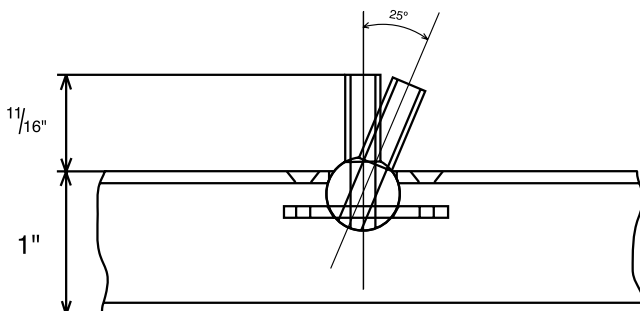
Once installed in our convenient mounting brackets, the extrusion can be swiveled for further adjustment if merchandise is moved within the cabinet.



360°



Fiber



Our adjustable Jesse fixtures can be easily incorporated within the system for spotlighting effects.

TapeLite® 500 Series

The flexible, versatile lighting alternative – ideal for architecture and entertainment

Spectra-Strip's TapeLite® 500 Series is a unique, non-electrical, flat side emitting lighting cable designed for spaces where long length (up to 100 ft.) broad areas need to be lit with a very thin, .085 inch thick design. TapeLite® 500 series is built with a patent pending combination of twisted plastic optical fibers and programmable untwisted parallel sections. Most of the light emits from the twisted fibers, while the parallel untwisted sections are used to bring light to the twisted lit sections from the illuminator.

TapeLite® can be used with all Magic Lite illuminators including quartz halogen, metal halide and LED. Colour wheels can be added to provide a variety of constant or changeable colour options. TapeLite® can even be coupled with computer-controlled RGB LEDs for creative, colourful, interactive audio visualizations.

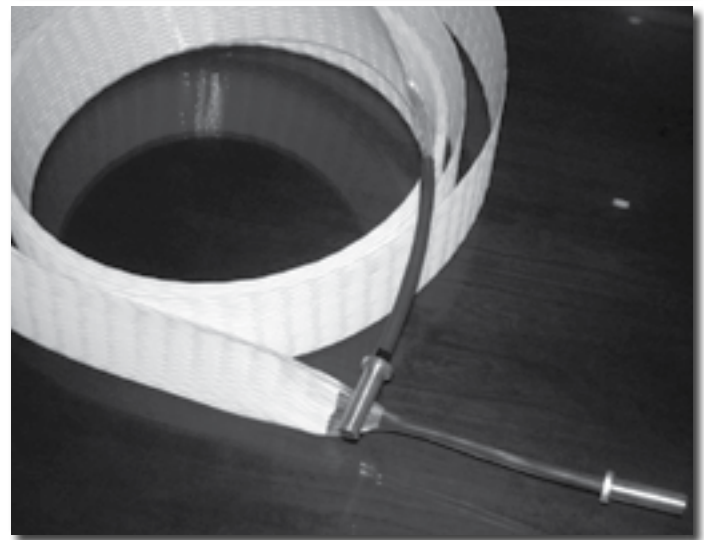
Due to its non-electrical design, it is perfect for applications that need to be safely illuminated with no bulbs to burn out in potentially hazardous locations

Application

With its extreme efficiency and precise beam control, EFO is well suited for accent lighting and spot lighting in commercial and industrial settings. EFO is particularly suited for installations into T-Bar ceilings, and also appropriate for hard ceilings, display cases, elevator cabs, and many other locations.

- No electrical hazards along light path
- Perfect for wet or hazardous environment
- No bulbs to burn out or replace in the cable
- Patent-pending fiber optic illumination technology
- Cable can change colour via RGB LED or colour wheel
- Effectively lights wide, broad areas with a single source

The Energy Focus team developed the deceptively simple-looking Compound Parabolic Collector (CPC), a patented device only about 10% of the size of a typical fiber optic lighting system reflector that captures more than twice the source light of a traditional reflector.



TapeLite® Product Specifications

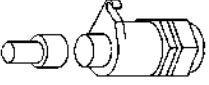
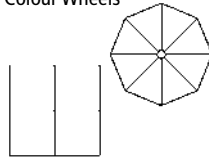
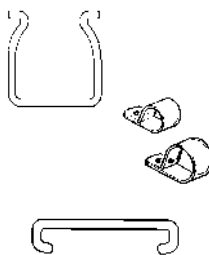
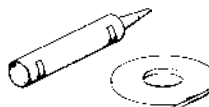
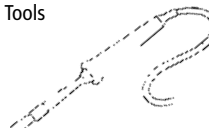
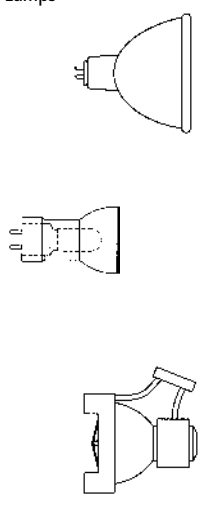
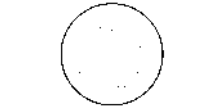
Fiber Core

Material	Polymethyl-methacrylate
Cladding	Fluorinated Polymer
Fiber diameter	1mm (.039")
Refractive Index	1.49
Numerical Aperture	0.5
Temperature Range At 95% Humidity	-55° to 70 °C 60 °C
Attenuation	< .2 dB/m @650nm
Min Bend Radius	3 inches

Laminate

Top: Clear PVC Flame Retardant Film	.005 inches UL 94 V-0 UV Resistant
Bottom: White Polyester Film	.003 inches
Cable Thickness	.085 inches nominal

Energy Focus® Mounting Equipment, Tools & Accessories

ACCESSORIES	Part Number	Description	Usage
	FS-A10980	Zinc port, 300 fibers	FS7L, FS11L, FS12L, FS13L, 404, 405N, 601, 602
	FS-C10641-33	Zinc port tip, 400 fibers	FS7L, FS11L, FS12L, FS13L, 404, 405N, 601, 602
	FS-C10641-45	Zinc port tip, 450 fibers	FS7L, FS11L, FS12L, FS13L, 404, 405N, 601, 602
	FS-C10643	Zinc port tip, 600 fibers	FS7L, FS11L, FS12L, FS13L, 404, 405N, 601, 602
	FS-AG-1PK	Port kit: AD and AG series	CPC-AD, CPC-AG
	FS-PT-07C	2" square colour wheel, 4 colours	FS7L, FS11L, FS12L, 404, 405N, 601, 602
	FS-PT-09C	3" octagon colour wheel, 8 colours	FS7L, FS11L, FS12L, 404, 405N, 601, 602
	FS-PT-10C	2.8" square colour wheel, 4 colours	FS7L, FS11L, FS12L, 404, 405N, 601, 602
	FS-PT-11C	3.25" octagon colour wheel, 8 colours	FS7L, FS11L, FS12L, 404, 405N, 601, 602
	FS-AG-04C	3.625" octagon colour wheel, 4 colours	AG-1, AG-2
	NN-C10-8	PVC U channel 0.5" W x 8' L indoor use	With BPAK-75 & BPAK-100
	NN-C10-POLY	PVC U channel 0.5" W x 8' L outdoor use	With BPAK-75 & BPAK-100
	FS-TRK-U5/8	PVC U channel 0.63" W x 6' L x 0.63" H	With BPAK-150
	FS-TRK-U3/8	PVC U channel, 0.46" W x 6' L x 0.46" H	With BPAK-40 & BPAK-50
	NN-C9 3/8	P clip, 0.48" W x 0.84" L x 0.38" H	With BPAK-15
	NN-C9	P clip, 0.48" W x 1.0" L x 0.48" H	With BPAK-50
	NN-C9 5/8	P clip 0.48" W x 1.2" L x 0.62" H	With BPAK-75 & BPAK-100
	NN-C9 3/4	P clip 0.48" W x 1.2" L x 0.68" H	with BPAK-150
	BUD-TAPE-1	Double sided tape, 100' roll	With all tracks
	FS-136	Silicone adhesive, 10.3 oz. tube	All installations
	FS-138	Silicone adhesive, case of 24 tubes	All installations
	FS-115	Epoxy kit (for all fixture types)	All fixtures and ferrule tips
	FS-118	Heavy duty hot knife, 60 watts	Multi-strand fiber, all installations
	FS-01-15001-00	Replacement blade for FS-118 and FS-163	Multi-strand and large core fiber
	FS-163	Butane hot knife	Multi-strand and large core fiber
	FS-117	Lens tightening tool for LNS fixtures	-
	FS-HI-071	75 watt MR16, 3200°K	FS1L
	FS-HI-075	71 watt MR16, 3000°K	FS11L
	FS-HI-100	100 watt MR16, 3000°K	FS12L, FS13L
	FS-HI-110	183 watt MR15, 3000°K	FS7L
	EFO-068	68 watt, metal halide, 3500K, dual port	EFO-AD, EFO-1+1, EFO-3+3, EFO-4+4
	EFO-068-D	68 watt, metal halide, 3500K, dual port, door attached	EFO-AD, EFO-1+1, EFO-3+3, EFO-4+4
	EFO-068-SC	68 watt, metal halide, 3500K, dual port, single colour	EFO-AD, EFO-1+1, EFO-3+3, EFO-4+4
	EFO-068-SC-D	68 watt, metal halide, 3500K, dual port, single colour, door attached	EFO-AD, EFO-1+1, EFO-3+3, EFO-4+4
	EFO-068-AG	68 watt, metal halide, 3500K, dual port	EFO-AG
	EFO-068-AG-SC	68 watt, metal halide, 3500K, dual port, single colour	EFO-AG
	FS-HID-430	150 watt M.H., 3000°K	404N, 405N
	FS-HID-440	150 watt M.H., 4000°K	404N, 405N
	FS-HID-601	250 watt M.H., 6400°K	601, 602
	FS-HID-430MR	150 watt M.H., 3000°K	metal reflector lamp for 404N, 405N
	FS-HID-440MR	150 watt M.H., 4000°K	metal reflector lamp for 404N, 405N
	FS-DIMWL	Dimming wheel, mechanical, perforated metal, no motor incl.	-
	FS-SPKWL	Sparkle wheel, 3", perforated metal, no motor incl. (max. 400 fibers)	-
	FS-SPKFXD	Sparkle wheel, 3 7/8", painted plastic dots, no motor incl.	-
	FS-SPKFXL	Sparkle wheel, 3 7/8", painted plastic lines, no motor incl.	-

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