# FIBERSTARS®
## Fiber Optic Technology in Lighting™

# International List Price Book
# And Reference Guide

# Commercial Lighting Products

## Effective December 15, 2004

# Contact Information

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- General Product Information
- Return Goods Authorizations
- Literature and Catalog Requests

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# Contents

*NOTE: Pricing and information on Fiberstars EFO® Energy Saving Systems are available in a separate Reference Pricing Guide Book.*

**Fiberstars, Inc.**
44259 Nobel Drive  *  Fremont, CA 94538  USA
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# Lightly Expressed® Light Bars

## LightBeam, LightBeam QR, LightFrame, and TRX*

| Intensity | | Lit Length | 10 Foot Tail | 20 Foot Tail | 30 Foot Tail |
|---|---|---|---|---|---|
| **LOW** 1 Fiber Per Inch | | *up to 12"* | $74.80 | $83.60 | $92.40 |
| | | *13" - 24"* | $125.40 | $145.20 | $165.00 |
| | | *25" - 36"* | $162.80 | $189.20 | $215.60 |
| | | *37"- 48"* | $211.20 | $244.20 | $277.20 |
| | | *49" - 60"* | $268.40 | $360.00 | $347.60 |
| | | *61" - 72"* | $325.60 | $374.00 | $422.40 |
| | | *73" - 84"* | $369.60 | $422.40 | $475.20 |
| | | *85" - 96"* | $422.40 | $481.80 | $541.20 |
| | | *97" - 108"* | $488.40 | $561.00 | $633.60 |
| | | *109" - 120"* | $532.40 | $611.60 | $690.80 |
| **MEDIUM** 2 Fibers Per Inch | | *up to 12"* | $105.60 | $123.20 | $140.80 |
| | | *13" - 24"* | $189.20 | $228.80 | $268.40 |
| | | *25" - 36"* | $272.80 | $325.60 | $378.40 |
| | | *37"- 48"* | $330.00 | $396.00 | $462.00 |
| | | *49" - 60"* | $413.60 | $492.80 | $572.00 |
| | | *61" - 72"* | $506.00 | $602.80 | $699.60 |
| | | *73" - 84"* | $572.00 | $677.60 | $783.20 |
| | | *85" - 96"* | $649.00 | $767.80 | $886.60 |
| | | *97" - 108"* | $737.00 | $882.20 | $1,027.40 |
| | | *109" - 120"* | $858.00 | $1,016.40 | $1,174.80 |
| **HIGH** 4 Fibers Per Inch | | *up to 12"* | $149.60 | $184.80 | $220.00 |
| | | *13" - 24"* | $264.00 | $343.20 | $422.40 |
| | | *25" - 36"* | $374.00 | $479.60 | $585.20 |
| | | *37"- 48"* | $484.00 | $616.00 | $748.00 |
| | | *49" - 60"* | $572.00 | $730.40 | $888.80 |
| | | *61" - 72"* | $737.00 | $930.60 | $1,124.20 |
| | | *73" - 84"* | $858.00 | $1,069.20 | $1,280.40 |
| | | *85" - 96"* | $1,012.00 | $1,249.60 | $1,487.20 |
| | | *97" - 108"* | $1,166.00 | $1,456.40 | $1,746.80 |
| **ULTRA HIGH** 8 Fibers Per Inch | | *up to 12"* | $253.00 | $341.00 | $407.00 |
| | | *13" - 24"* | $429.00 | $561.00 | $671.00 |
| | | *25" - 36"* | $605.00 | $781.00 | $957.00 |
| | | *37"- 48"* | $737.00 | $957.00 | $1,177.00 |
| | | *49" - 60"* | $913.00 | $1,177.00 | $1,441.00 |

**LB**

**LBQR**

**LF**

**TRX**

**FOCI**

**Focal Point**

50°   1.27"   0.84"   0.40"

1/4"D Sheathed FiberOptic Tail

### Foci Fixtures--(ADD to the Above Bars--LB Standard Configuration ONLY)

| | | |
|---|---|---|
| *Each FOCI fixture* $112.20 | $129.80 | $147.40 |

*FOCI with no wash fibers is available--consult factory for details*

| **Focal Point Fixtures** | $172.00 | $206.00 | $238.00 |
|---|---|---|---|

**Mounting Brackets**   LB-MB-CL  Clear (standard)   $6.00 each
LB-MB-BL  Black   $6.00 each

**LB-MB**   R 0.1" Typ.   Ø 0.15"   1.25" Typ.   0.15"   Bendline

*\*TRX is available in High Intensity (4 fibers/inch) and Ultra High Intensity*
(5 fibers/inch) Only
**CUSTOM OPTIONS are available--call factory for pricing**

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# 601 Illuminator

## Ordering Guide

| Model Options | | Color Options | | Voltage Options | | Accessory Option | |
|---|---|---|---|---|---|---|---|

### Model Options

**601**

UL Listed for Damp Locations

### Color Options

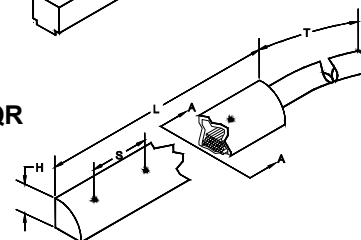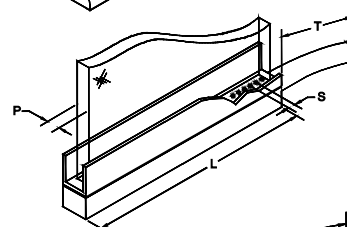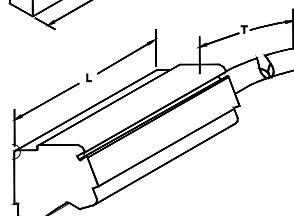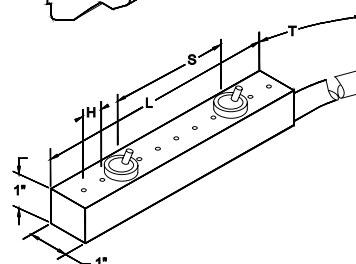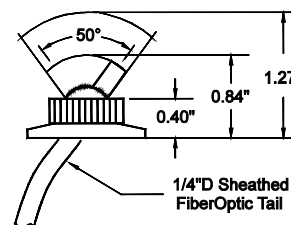| | |
|---|---|
| **NC** | No Color |
| **C1** | Single Color |
| **C4/1** | Four-Color Wheel, 1 RPM (Specify Colors and Sequence) |
| **C4/3** | Four-Color Wheel, 3.6 RPM (Specify Colors and Sequence) |
| **C8/1** | Eight-Color Wheel, 1 RPM (Specify Colors and Sequence) |
| **C8/3** | Eight-Color Wheel, 3.6 RPM (Specify Colors and Sequence) |
| **SPW** | Sparkle Wheel (Add to C4 or C8 only, 400 strands max) |
| **SPW/N** | Sparkle Wheel (w/motor, specify 1 or 3.6 RPM, 400 strands max) |
| **DWM/** | Dimming Wheel, Mechanical (w/motor, specify 1 or 3.6 RPM, not used w/color wheel) |

### Voltage Options

| | |
|---|---|
| **120** | 120V, 60Hz |
| **240** | 240V, 60Hz |
| **220I** | 220V, 50Hz |

### Accessory Option

| | |
|---|---|
| **003** | Standard 300 Fiber Capacity |
| **004** | Special 400 Fiber Capacity |
| **005** | Special 450 Fiber Capacity (Star Ceilings, White Light Only) |
| **006** | Special 600 Fiber Capacity (Star Ceilings, White Light Only) |
| **SM** | Sync Master (Use One Per Network; C4 or C8 only) |
| **SY** | Sync Slave (C4 or C8 only) |
| **CV** | Variable Delay Controller (One Per Network; Use with 3.6 RPM Motors Only) |
| **DX** | DMX Interface, Hardwired (2 Motor Control; C8 Only) |
| **DXLR** | DMX Interface, XLR Connectors (2 Motor Control; C8 Only) |
| **TBK** | T-Bar Mounting Kit |
| **HP** | Hammertone Painted |

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| Base Unit **601-NC-120-003** | 250-Watt HID Lamp, No Color, 120 Volt *(Includes lamp and zinc optical port kit)* | **$2,400.00** |
|---|---|---|

**Additions to Base Price**

| | | |
|---|---|---|
| **C1** | Single Color | $24.00 |
| **C4/1** | Four-Color Wheel, 1 RPM (Specify Colors and Sequence) | $64.00 |
| **C4/3** | Four-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | $48.00 |
| **C8/1** | Eight-Color Wheel, 1 RPM (Specify Colors and Sequence) | $120.00 |
| **C8/3** | Eight-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | $104.00 |
| **SPW** | Sparkle Wheel (Add to C4 or C8 only, 400 strands max) | $40.00 |
| **SPW/NC** | Sparkle Wheel (w/motor, specify 1 or 3.6 RPM, 400 strands max) | $48.00 |
| **DWM/NC** | Dimming Wheel, Mechanical (w/motor, specify 1 or 3.6 RPM, not used w/color wheel) | $56.00 |
| **240** | Other Domestic Voltages | $20.00 |
| **220I** | International Voltages | $20.00 |
| **004** | Special 400 Fiber Capacity | $10.00 |
| **005** | Special 450 Fiber Capacity (Star Ceilings, White Light Only) | $10.00 |
| **006** | Special 600 Fiber Capacity (Star Ceilings, White Light Only) | $10.00 |
| **SM** | Sync Master (Use One Per Network; C4 or C8 only) | $240.00 |
| **SY** | Sync Slave (C4 or C8 only) | $208.00 |
| **CV** | Variable Delay Controller (One Per Network; Use with 3.6 RPM Motors Only) | $450.00 |
| **DX** | DMX Interface, Hardwired (2 Motor Control; C8 Only) | $1,060.00 |
| **DXLR** | DMX Interface, XLR Connectors (2 Motor Control; C8 Only) | $1,210.00 |
| **TBK** | T-Bar Mounting Kit | $36.00 |
| **HP** | Hammertone Painted | $70.00 |
| *HID-601* | *Replacement Lamp(s)--see 'Lamps' on page 13* | |

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# 602 Illuminator

## Ordering Guide

| Model Options | — | Color Options |  | Voltage Options | Accessory Option |
|---|---|---|---|---|---|

### Model Options

**602**

UL Listed for Wet Locations

### Color Options

**NC** No Color

**C1** Single Color

**C4/1** Four-Color Wheel, 1 RPM
(Specify Colors and Sequence)

**C4/3** Four-Color Wheel, 3.6 RPM
(Specify Colors and Sequence)

**C8/1** Eight-Color Wheel, 1 RPM
(Specify Colors and Sequence)

**C8/3** Eight-Color Wheel, 3.6 RPM
(Specify Colors and Sequence)

**SPW** Sparkle Wheel
(Add to C4 or C8 only, 400 strands max)

**SPW/N** Sparkle Wheel
(w/motor, specify 1 or 3.6 RPM, 400 strands max)

**DWM/** Dimming Wheel, Mechanical
(w/motor, specify 1 or 3.6 RPM, not used w/color wheel)

### Voltage Options

**120** 120V, 60Hz

**240** 240V, 60Hz

**220I** 220V, 50Hz

### Accessory Option

**003** Standard 300 Fiber Capacity

**004** Special 400 Fiber Capacity

**005** Special 450 Fiber Capacity
(Star Ceilings, White Light Only)

**006** Special 600 Fiber Capacity
(Star Ceilings, White Light Only)

**SM** Sync Master
(Use One Per Network; C4 or C8 only)

**SY** Sync Slave
(C4 or C8 only)

**CV** Variable Delay Controller
(One Per Network; Use with 3.6 RPM Motors Only)

**DX** DMX Interface, Hardwired
(2 Motor Control; C8 Only)

**DXLR** DMX Interface, XLR Connectors
(2 Motor Control; C8 Only)

| Base Unit **602-NC-120-003** | 250-Watt HID Lamp, No Color, 120 Volt *(Includes lamp and zinc optical port kit)* | **$2,600.00** |
|---|---|---|

**Additions to Base Price**

| | | |
|---|---|---|
| **C1** | Single Color | $24.00 |
| **C4/1** | Four-Color Wheel, 1 RPM (Specify Colors and Sequence) | $64.00 |
| **C4/3** | Four-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | $48.00 |
| **C8/1** | Eight-Color Wheel, 1 RPM (Specify Colors and Sequence) | $120.00 |
| **C8/3** | Eight-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | $104.00 |
| **SPW** | Sparkle Wheel (Add to C4 or C8 only, 400 strands max) | $40.00 |
| **SPW/NC** | Sparkle Wheel (w/motor, specify 1 or 3.6 RPM, 400 strands max) | $48.00 |
| **DWM/NC** | Dimming Wheel, Mechanical (w/motor, specify 1 or 3.6 RPM, not used w/color wheel) | $56.00 |
| **240** | Other Domestic Voltages | $20.00 |
| **220I** | International Voltages | $20.00 |
| **004** | Special 400 Fiber Capacity | $10.00 |
| **005** | Special 450 Fiber Capacity (Star Ceilings, White Light Only) | $10.00 |
| **006** | Special 600 Fiber Capacity (Star Ceilings, White Light Only) | $10.00 |
| **SM** | Sync Master (Use One Per Network; C4 or C8 only) | $240.00 |
| **SY** | Sync Slave (C4 or C8 only) | $208.00 |
| **CV** | Variable Delay Controller (One Per Network; Use with 3.6 RPM Motors Only) | $450.00 |
| **DX** | DMX Interface, Hardwired (2 Motor Control; C8 Only) | $1,060.00 |
| **DXLR** | DMX Interface, XLR Connectors (2 Motor Control; C8 Only) | $1,210.00 |
| *HID-601* | *Replacement Lamp(s)--see 'Lamps' on page 13* | |

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## 405N Illuminator

### Ordering Guide

| Model Options | Color Options | Voltage Options | Accessory Option |
|---|---|---|---|

**Model Options**

**405N/30**
**405N/40**
**405N/30MR**
**405N/40MR**
**405N/30MC\***
**405N/42MC\***

*Uses Philips Mast

UL Listed for Damp Locations

**Color Options**

| **NC** | No Color |
| **C1** | Single Color |
| **C4/1** | Four-Color Wheel, 1 RPM (Specify Colors and Sequence) |
| **C4/3** | Four-Color Wheel, 3.6 RPM (Specify Colors and Sequence) |
| **C8/1** | Eight-Color Wheel, 1 RPM (Specify Colors and Sequence) |
| **C8/3** | Eight-Color Wheel, 3.6 RPM (Specify Colors and Sequence) |
| **SPW** | Sparkle Wheel (Add to C4 or C8 only, 400 strands max) |
| **SPW/N** | Sparkle Wheel (w/motor, specify 1 or 3.6 RPM, 400 strands max) |
| **DWM/** | Dimming Wheel, Mechanical (w/motor, specify 1 or 3.6 RPM, not used w/color wheel) |

**Voltage Options**

| **120** | 120V, 60Hz |
| **240** | 240V, 60Hz |
| **277** | 277V, 60Hz |
| **220I** | 220V, 50Hz |
| **230I** | 230V, 50Hz |
| **240I** | 240V, 50Hz |

**Accessory Option**

| **003** | Standard 300 Fiber Capacity |
| **004** | Special 400 Fiber Capacity |
| **005** | Special 450 Fiber Capacity (Star Ceilings, White Light Only) |
| **006** | Special 600 Fiber Capacity (Star Ceilings, White Light Only) |
| **SM** | Sync Master (Use One Per Network; C4 or C8 only) |
| **SY** | Sync Slave (C4 or C8 only) |
| **CV** | Variable Delay Controller (One Per Network; Use with 3.6 RPM Motors Only) |
| **DX** | DMX Interface, Hardwired (2 Motor Control; C8 Only) |
| **DXLR** | DMX Interface, XLR Connectors (2 Motor Control; C8 Only) |
| **TBK** | T-Bar Mounting Kit |
| **HP** | Hammertone Painted |

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Base Unit **405N/40-NC-120-003**   150-Watt HID Lamp, 4000 Kelvin, No Color, 120 Volt   **$798.00**
*(Includes lamp and zinc optical port kit)*

**Additions to Base Price**

| | | |
|---|---|---|
| **30** | 3000K Lamp, Dichroic Reflector | No Charge |
| **40** | 4000K Lamp, Dichroic Reflector | No Charge |
| **30MR** | 3000K Lamp, Metal Reflector | -$170.00 |
| **40MR** | 4000K Lamp, Metal Reflector | -$170.00 |
| **30MC** | 3000K Lamp, Dichroic Reflector, Philips MasterColor® lamp | $50.00 |
| **42MC** | 4200K Lamp, Dichroic Reflector, Philips MasterColor® lamp | $50.00 |
| **C1** | Single Color | $24.00 |
| **C4/1** | Four-Color Wheel, 1 RPM (Specify Colors and Sequence) | $64.00 |
| **C4/3** | Four-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | $48.00 |
| **C8/1** | Eight-Color Wheel, 1 RPM (Specify Colors and Sequence) | $120.00 |
| **C8/3** | Eight-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | $104.00 |
| **SPW** | Sparkle Wheel (Add to C4 or C8 only, 400 strands max) | $40.00 |
| **SPW/NC** | Sparkle Wheel (w/motor, specify 1 or 3.6 RPM, 400 strands max) | $48.00 |
| **DWM/NC** | Dimming Wheel, Mechanical (w/motor, specify 1 or 3.6 RPM, not used w/color wheel) | $56.00 |
| **240  277** | Other Domestic Voltages | $20.00 |
| **220I 230I 240I** | International Voltages | $20.00 |
| **004** | Special 400 Fiber Capacity | $10.00 |
| **005** | Special 450 Fiber Capacity (Star Ceilings, White Light Only) | $10.00 |
| **006** | Special 600 Fiber Capacity (Star Ceilings, White Light Only) | $10.00 |
| **SM** | Sync Master (Use One Per Network; C4 or C8 only) | $240.00 |
| **SY** | Sync Slave (C4 or C8 only) | $208.00 |
| **CV** | Variable Delay Controller (One Per Network; Use with 3.6 RPM Motors Only) | $450.00 |
| **DX** | DMX Interface, Hardwired (2 Motor Control; C8 Only) | $1,060.00 |
| **DXLR** | DMX Interface, XLR Connectors (2 Motor Control; C8 Only) | $1,210.00 |
| **TBK** | T-Bar Mounting Kit | $36.00 |
| **HP** | Hammertone Painted | $70.00 |
| | *Replacement Lamp(s)--see 'Lamps' on page 13* | |

# 404N Illuminator

## Ordering Guide

| Model Options | Color Options | Voltage Options | Accessory Option |
|---|---|---|---|
| **404N/30** | **NC** No Color | **120** 120V, 60Hz | **003** Standard 300 Fiber Capacity |
| **404N/40** | **C1** Single Color | **240** 240V, 60Hz | **004** Special 400 Fiber Capacity |
| **404N/30MR** | **C4/1** Four-Color Wheel, 1 RPM (Specify Colors and Sequence) | **277** 277V, 60Hz | **005** Special 450 Fiber Capacity (Star Ceilings, White Light Only) |
| **404N/40MR** | **C4/3** Four-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | **220I** 220V, 50Hz | **006** Special 600 Fiber Capacity (Star Ceilings, White Light Only) |
| **404N/30MC*** | **C8/1** Eight-Color Wheel, 1 RPM (Specify Colors and Sequence) | **230I** 230V, 50Hz | **SM** Sync Master (Use One Per Network; C4 or C8 only) |
| **404N/42MC*** | **C8/3** Eight-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | **240I** 240V, 50Hz | **SY** Sync Slave (C4 or C8 only) |
| *Uses Philips Mast | **SPW** Sparkle Wheel (Add to C4 or C8 only, 400 strands max) | | **CV** Variable Delay Controller (One Per Network; Use with 3.6 RPM Motors Only) |
| UL Listed for Wet Locations | **SPW/N** Sparkle Wheel (w/motor, specify 1 or 3.6 RPM, 400 strands max) | | **DX** DMX Interface, Hardwired (2 Motor Control; C8 Only) |
| | **DWM/** Dimming Wheel, Mechanical (w/motor, specify 1 or 3.6 RPM, not used w/color wheel) | | **DXLR** DMX Interface, XLR Connectors (2 Motor Control; C8 Only) |
| | | | **WB** Wall Mounting Brackets |

| Base Unit **404N/40-NC-120-003** | 150-Watt HID Lamp, 4000 Kelvin, No Color, 120 Volt *(Includes lamp and zinc optical port kit)* | **$1,099.00** |
|---|---|---|

**Additions to Base Price**

| | | |
|---|---|---|
| **30** | 3000K Lamp, Dichroic Reflector | No Charge |
| **40** | 4000K Lamp, Dichroic Reflector | No Charge |
| **30MR** | 3000K Lamp, Metal Reflector | -$170.00 |
| **40MR** | 4000K Lamp, Metal Reflector | -$170.00 |
| **30MC** | 3000K Lamp, Dichroic Reflector, Philips MasterColor® lamp | $50.00 |
| **42MC** | 4200K Lamp, Dichroic Reflector, Philips MasterColor® lamp | $50.00 |
| **C1** | Single Color | $24.00 |
| **C4/1** | Four-Color Wheel, 1 RPM (Specify Colors and Sequence) | $64.00 |
| **C4/3** | Four-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | $48.00 |
| **C8/1** | Eight-Color Wheel, 1 RPM (Specify Colors and Sequence) | $120.00 |
| **C8/3** | Eight-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | $104.00 |
| **SPW** | Sparkle Wheel (Add to C4 or C8 only, 400 strands max) | $40.00 |
| **SPW/NC** | Sparkle Wheel (w/motor, specify 1 or 3.6 RPM, 400 strands max) | $48.00 |
| **DWM/NC** | Dimming Wheel, Mechanical (w/motor, specify 1 or 3.6 RPM, not used w/color wheel) | $56.00 |
| **240 277** | Other Domestic Voltages | $20.00 |
| **220I 230I 240I** | International Voltages | $20.00 |
| **004** | Special 400 Fiber Capacity | $10.00 |
| **005** | Special 450 Fiber Capacity (Star Ceilings, White Light Only) | $10.00 |
| **006** | Special 600 Fiber Capacity (Star Ceilings, White Light Only) | $10.00 |
| **SM** | Sync Master (Use One Per Network; C4 or C8 only) | $240.00 |
| **SY** | Sync Slave (C4 or C8 only) | $208.00 |
| **CV** | Variable Delay Controller (One Per Network; Use with 3.6 RPM Motors Only) | $450.00 |
| **DX** | DMX Interface, Hardwired (2 Motor Control; C8 Only) | $1,060.00 |
| **DXLR** | DMX Interface, XLR Connectors (2 Motor Control; C8 Only) | $1,210.00 |
| **WB** | Wall Mounting Brackets | $60.00 |
| | *Replacement Lamp(s)--see 'Lamps' on page 13* | |

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## FS7L Illuminator

### Ordering Guide

| | | | |
|---|---|---|---|
| [____] | — [____] | [____] | — [____] |

| **Model Options** | **Color Options** | **Voltage Options** | **Accessory Option** |
|---|---|---|---|
| **FS7L** | **NC** No Color | **120** 120V, 60Hz | **003** Standard 300 Fiber Capacity |
| | **C1** Single Color | **220I** 220V, 50Hz | **004** Special 400 Fiber Capacity |
| | **C4/1** Four-Color Wheel, 1 RPM (Specify Colors and Sequence) | **230I** 230V, 50Hz | **005** Special 450 Fiber Capacity (Star Ceilings, White Light Only) |
| | **C4/3** Four-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | **240I** 240V, 50Hz | **006** Special 600 Fiber Capacity (Star Ceilings, White Light Only) |
| | **C8/1** Eight-Color Wheel, 1 RPM (Specify Colors and Sequence) | | **SM** Sync Master (Use One Per Network; C4 or C8 only) |
| | **C8/3** Eight-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | | **SY** Sync Slave (C4 or C8 only) |
| UL Listed for Damp Locations | **SPW** Sparkle Wheel (Add to C4 or C8 only, 400 strands max) | | **CV** Variable Delay Controller (One Per Network; Use with 3.6 RPM Motors Only) |
| | **SPW/N** Sparkle Wheel (w/motor, specify 1 or 3.6 RPM, 400 strands max) | | **PS** Plug and Switches (Not available with DR or DRC Option) |
| | **DWM/** Dimming Wheel, Mechanical (w/motor, specify 1 or 3.6 RPM, not used w/color wheel) | | **TBK** T-Bar Mounting Kit |
| | | | **DR** Dimmable Ready (Consumer-grade Residential Electronic Dimmer) |
| | | | **DRC** Dimmable Ready (Commercial-grade Architectural Electronic Dimmer) |

| Base Unit **FS7L-NC-120-003** | 183-Watt MR16 Lamp, No Color, 120 Volt *(Includes lamp and zinc optical port kit)* | **$400.00** |
|---|---|---|

**Additions to Base Price**

| | | |
|---|---|---|
| **C1** | Single Color | $24.00 |
| **C4/1** | Four-Color Wheel, 1 RPM (Specify Colors and Sequence) | $64.00 |
| **C4/3** | Four-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | $48.00 |
| **C8/1** | Eight-Color Wheel, 1 RPM (Specify Colors and Sequence) | $120.00 |
| **C8/3** | Eight-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | $104.00 |
| **SPW** | Sparkle Wheel (Add to C4 or C8 only, 400 strands max) | $40.00 |
| **SPW/NC** | Sparkle Wheel (w/motor, specify 1 or 3.6 RPM, 400 strands max) | $48.00 |
| **DWM/NC** | Dimming Wheel, Mechanical (w/motor, specify 1 or 3.6 RPM, not used w/color wheel) | $56.00 |
| **220I 230I 240I** | International Voltages | $20.00 |
| **004** | Special 400 Fiber Capacity | $10.00 |
| **005** | Special 450 Fiber Capacity (Star Ceilings, White Light Only) | $10.00 |
| **006** | Special 600 Fiber Capacity (Star Ceilings, White Light Only) | $10.00 |
| **SM** | Sync Master (Use One Per Network; C4 or C8 only) | $240.00 |
| **SY** | Sync Slave (C4 or C8 only) | $208.00 |
| **CV** | Variable Delay Controller (One Per Network; Use with 3.6 RPM Motors Only) | $450.00 |
| **PS** | Plug and Switches (Not available with DR or DRC Option) | $50.00 |
| **TBK** | T-Bar Mounting Kit | $36.00 |
| **DR** | Dimmable Ready (Consumer-grade Residential Electronic Dimmer) | $60.00 |
| **DRC** | Dimmable Ready (Commercial-grade Architectural Electronic Dimmer) | $60.00 |
| *HI-110* | *Replacement Lamp(s)--see 'Lamps' on page 13* | |

# FS13L Illuminator

**Ordering Guide**

| Model Options | Color Options | | Voltage Options | Accessory Option |
|---|---|---|---|---|
| **FS13L** | **NC** No Color | | **120** 120V, 60Hz | **003** Standard 300 Fiber Capacity |
| | **C1** Single Color | | **220I** 220V, 50Hz | **004** Special 400 Fiber Capacity |
| | | | **230I** 230V, 50Hz | **005** Special 450 Fiber Capacity (Star Ceilings, White Light Only) |
| | | | **240I** 240V, 50Hz | **006** Special 600 Fiber Capacity (Star Ceilings, White Light Only) |
| | | | | **PS** Plug and Switches (Not available with DR or DRC Option) |
| | | | | **TBK** T-Bar Mounting Kit |
| UL Listed for Damp Locations | | | | **DR** Dimmable Ready (Consumer-grade Residential Electronic Dimmer) |
| | | | | **DRC** Dimmable Ready (Commercial-grade Architectural Electronic Dimmer) |
| | | | | **VK** Ventilation Kit |

| Base Unit **FS13L-NC-120-003** | (2) 100-Watt MR16 Lamps, No Color, 120 Volt *(Includes lamps and zinc optical port kit)* | **$520.00** |
|---|---|---|

**Additions to Base Price**

| | | |
|---|---|---|
| **C1** | Single Color | $24.00 |
| **220I 230I 240I** | International Voltages | $20.00 |
| **004** | Special 400 Fiber Capacity | $10.00 |
| **005** | Special 450 Fiber Capacity (Star Ceilings, White Light Only) | $10.00 |
| **006** | Special 600 Fiber Capacity (Star Ceilings, White Light Only) | $10.00 |
| **PS** | Plug and Switches (Not available with DR or DRC Option) | $50.00 |
| **TBK** | T-Bar Mounting Kit | $36.00 |
| **DR** | Dimmable Ready (Consumer-grade Residential Electronic Dimmer) | $60.00 |
| **DRC** | Dimmable Ready (Commercial-grade Architectural Electronic Dimmer) | $60.00 |
| **VK** | Ventilation Kit | $180.00 |
| *(2) HI-100* | *Replacement Lamp(s)--see 'Lamps' on page 13* | |

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# FS12L Illuminator

**Ordering Guide**

| Model Options | Color Options | Voltage Options | Accessory Option |
|---|---|---|---|
| ☐ | ☐ | ☐ | ☐ |

**Model Options**

**FS12L**

UL Listed for Damp
Locations

**Color Options**

| | | |
|---|---|---|
| **NC** | No Color | |
| **C1** | Single Color | |
| **C4/1** | Four-Color Wheel, 1 RPM (Specify Colors and Sequence) | |
| **C4/3** | Four-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | |
| **C8/1** | Eight-Color Wheel, 1 RPM (Specify Colors and Sequence) | |
| **C8/3** | Eight-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | |
| **SPW** | Sparkle Wheel (Add to C4 or C8 only, 400 strands max) | |
| **SPW/N** | Sparkle Wheel (w/motor, specify 1 or 3.6 RPM, 400 strands max) | |
| **DWM/** | Dimming Wheel, Mechanical (w/motor, specify 1 or 3.6 RPM, not used w/color wheel) | |

**Voltage Options**

| | |
|---|---|
| **120** | 120V, 60Hz |
| **220I** | 220V, 50Hz |
| **230I** | 230V, 50Hz |
| **240I** | 240V, 50Hz |

**Accessory Option**

| | |
|---|---|
| **003** | Standard 300 Fiber Capacity |
| **004** | Special 400 Fiber Capacity |
| **005** | Special 450 Fiber Capacity (Star Ceilings, White Light Only) |
| **006** | Special 600 Fiber Capacity (Star Ceilings, White Light Only) |
| **PS** | Plug and Switches (Not available with DR or DRC Option) |
| **TBK** | T-Bar Mounting Kit |
| **DR** | Dimmable Ready (Consumer-grade Residential Electronic Dimmer) |
| **DRC** | Dimmable Ready (Commercial-grade Architectural Electronic Dimmer) |
| **VK** | Ventilation Kit |

| Base Unit **FS12L-NC-120-003** | 100-Watt MR16 Lamp, No Color, 120 Volt *(Includes lamp and zinc optical port kit)* | **$380.00** |
|---|---|---|

**Additions to Base Price**

| | | |
|---|---|---|
| **C1** | Single Color | $24.00 |
| **C4/1** | Four-Color Wheel, 1 RPM (Specify Colors and Sequence) | $64.00 |
| **C4/3** | Four-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | $48.00 |
| **C8/1** | Eight-Color Wheel, 1 RPM (Specify Colors and Sequence) | $120.00 |
| **C8/3** | Eight-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | $104.00 |
| **SPW** | Sparkle Wheel (Add to C4 or C8 only, 400 strands max) | $40.00 |
| **SPW/NC** | Sparkle Wheel (w/motor, specify 1 or 3.6 RPM, 400 strands max) | $48.00 |
| **DWM/NC** | Dimming Wheel, Mechanical (w/motor, specify 1 or 3.6 RPM, not used w/color wheel) | $56.00 |
| **220I 230I 240I** | International Voltages | $20.00 |
| **004** | Special 400 Fiber Capacity | $10.00 |
| **005** | Special 450 Fiber Capacity (Star Ceilings, White Light Only) | $10.00 |
| **006** | Special 600 Fiber Capacity (Star Ceilings, White Light Only) | $10.00 |
| **PS** | Plug and Switches (Not available with DR or DRC Option) | $50.00 |
| **TBK** | T-Bar Mounting Kit | $36.00 |
| **DR** | Dimmable Ready (Consumer-grade Residential Electronic Dimmer) | $60.00 |
| **DRC** | Dimmable Ready (Commercial-grade Architectural Electronic Dimmer) | $60.00 |
| **VK** | Ventilation Kit | $180.00 |
| *HI-100* | *Replacement Lamp(s)--see 'Lamps' on page 13* | |

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# FS11L Illuminator

**Ordering Guide**

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| | | | |
|---|---|---|---|
| [＿＿＿＿] | — | [＿＿＿＿] | |

**Model Options**

**FS11L**

UL Listed for Damp
Locations

**Color Options**

| | |
|---|---|
| **NC** | No Color |
| **C1** | Single Color |
| **C4/1** | Four-Color Wheel, 1 RPM (Specify Colors and Sequence) |
| **C4/3** | Four-Color Wheel, 3.6 RPM (Specify Colors and Sequence) |
| **C8/1** | Eight-Color Wheel, 1 RPM (Specify Colors and Sequence) |
| **C8/3** | Eight-Color Wheel, 3.6 RPM (Specify Colors and Sequence) |
| **SPW** | Sparkle Wheel (Add to C4 or C8 only, 400 strands max) |
| **SPW/N** | Sparkle Wheel (w/motor, specify 1 or 3.6 RPM, 400 strands max) |
| **DWM/** | Dimming Wheel, Mechanical (w/motor, specify 1 or 3.6 RPM, not used w/color wheel) |

**Voltage Options**

| | |
|---|---|
| **120** | 120V, 60Hz |
| **220I** | 220V, 50Hz |
| **230I** | 230V, 50Hz |
| **240I** | 240V, 50Hz |

**Accessory Option**

| | |
|---|---|
| **003** | Standard 300 Fiber Capacity |
| **004** | Special 400 Fiber Capacity |
| **005** | Special 450 Fiber Capacity (Star Ceilings, White Light Only) |
| **006** | Special 600 Fiber Capacity (Star Ceilings, White Light Only) |
| **PS** | Plug and Switches (Not available with DR or DRC Option) |
| **TBK** | T-Bar Mounting Kit |
| **DR** | Dimmable Ready (Consumer-grade Residential Electronic Dimmer) |
| **DRC** | Dimmable Ready (Commercial-grade Architectural Electronic Dimmer) |
| **VK** | Ventilation Kit |

| | | |
|---|---|---|
| Base Unit **FS11L-NC-120-003** | 75-Watt MR16 Lamp, No Color, 120 Volt *(Includes lamp and zinc optical port kit)* | **$340.00** |

**Additions to Base Price**

| | | |
|---|---|---|
| **C1** | Single Color | $24.00 |
| **C4/1** | Four-Color Wheel, 1 RPM (Specify Colors and Sequence) | $64.00 |
| **C4/3** | Four-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | $48.00 |
| **C8/1** | Eight-Color Wheel, 1 RPM (Specify Colors and Sequence) | $120.00 |
| **C8/3** | Eight-Color Wheel, 3.6 RPM (Specify Colors and Sequence) | $104.00 |
| **SPW** | Sparkle Wheel (Add to C4 or C8 only, 400 strands max) | $40.00 |
| **SPW/NC** | Sparkle Wheel (w/motor, specify 1 or 3.6 RPM, 400 strands max) | $48.00 |
| **DWM/NC** | Dimming Wheel, Mechanical (w/motor, specify 1 or 3.6 RPM, not used w/color wheel) | $56.00 |
| **220I 230I 240I** | International Voltages | $20.00 |
| **004** | Special 400 Fiber Capacity | $10.00 |
| **005** | Special 450 Fiber Capacity (Star Ceilings, White Light Only) | $10.00 |
| **006** | Special 600 Fiber Capacity (Star Ceilings, White Light Only) | $10.00 |
| **PS** | Plug and Switches (Not available with DR or DRC Option) | $50.00 |
| **TBK** | T-Bar Mounting Kit | $36.00 |
| **DR** | Dimmable Ready (Consumer-grade Residential Electronic Dimmer) | $60.00 |
| **DRC** | Dimmable Ready (Commercial-grade Architectural Electronic Dimmer) | $60.00 |
| **VK** | Ventilation Kit | $180.00 |
| *HI-075* | *Replacement Lamp(s)--see 'Lamps' on page 13* | |

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## FS1L Illuminator

**Ordering Guide**

| | | | |
|---|---|---|---|
| ☐ | — ☐ | — ☐ | — ☐ |

| **Model Options** | **Color Options** | | **Voltage Options** | **Accessory Option** | |
|---|---|---|---|---|---|
| **FS1L** | **NC** | No Color | **120** 120V, 60Hz | **CUST** | Custom Special Effect (Priced on Application--call for details) |
| | **CCW** | Custom Color Wheel | | **ANI** | Custom Animation (Priced on Application--call for details) |
| | **CSW** | Custom Sparkle Wheel | | | |

UL Listed for Dry
Locations

| Base Unit **FS1L-NC-120-003** | 71-Watt MR16 Lamp, No Color, 120 Volt | **$1,162.00** |
|---|---|---|
| | *(Includes lamp; fiber is custom harnessed)* | |

**Additions to Base Price**

| | | |
|---|---|---|
| **CCW** | Custom Color Wheel | $296.00 |
| **CSW** | Custom Sparkle Wheel | $70.00 |
| **CUST** | Custom Special Effect (Priced on Application--call for details) | Consult Factory |
| **ANI** | Custom Animation (Priced on Application--call for details) | Consult Factory |
| *HI-071* | *Replacement Lamp(s)--see 'Lamps' on page 13* | |

# Illuminator Options And Accessories

| Part Number: | Description: | Use: | List Price: |
|---|---|---|---|
| **Color Wheels** | | | |
| PT-01C* | 4 Color, 2" Square | 007, 301, 401, 402, 403 | $55.00 |
| PT-05C* | 4 Color, 2" Square | 501 | $55.00 |
| PT-07C* | 4 Color, 2" Square | FS2L, FS7L, FS11L, FS12L, FS13L, 201, 404, 404N, 405, 405N, 601, 602, 701 | $55.00 |
| PT-08C* | 8 Color, 3" Octagon | 007, 301, 401, 402, 403, 501 | $110.00 |
| PT-09C* | 8 Color, 3" Octagon | FS2L, FS7L, FS11L, FS12L, FS13L, 201, 404, 404N, 405, 405N, 601, 602, 701 | $110.00 |
| PT-10C* | 4 Color, 2.8" Square | FS2L, FS7L, FS11L, FS12L, FS13L, 201, 404, 404N, 405, 405N, 601, 602, 701 | $134.00 |
| PT-11C* | 8 Color, 3.25" Octagon | FS2L, FS7L, FS11L, FS12L, FS13L, 201, 404, 404N, 405, 405N, 601, 602, 701 | $176.00 |
| C40* | 4 Color, 3.4" Circle | FS68 | $140.00 |
| SPKWL* | Perforated Metal Sparkle Wheel | Perforated Metal Sparkle Wheel; without motor; 400 Strands Maximum | $44.00 |
| DIMWL* | Perforated Metal Dimming Wheel | Perforated Metal Sparkle Wheel; 20%, 40%, 60%, and 100% transmission. | $44.00 |
| | ***Motor is NOT included with wheels*** | | |

| Part Number: | Description: | Use: | List Price: |
|---|---|---|---|
| **Optical Ports** | | | |
| A10980 | Zinc Port, 300 Fibers (standard size) | 007, FS2L, FS7L, FS11L, FS12L, FS13L, 403, 404, 404N, 405, 405N, 601, 602 | $66.00 |
| C10641-33 | Zinc Port Tip, 400 Fibers | 007, FS2L, FS7L, FS11L, FS12L, FS13L, 403, 404, 404N, 405, 405N, 601, 602 | $10.00 |
| C10641-45 | Zinc Port Tip, 450 Fibers | 007, FS2L, FS7L, FS11L, FS12L, FS13L, 403, 404, 404N, 405, 405N, 601, 602 | $10.00 |
| C10643 | Zinc Port Tip, 600 Fibers | 007, FS2L, FS7L, FS11L, FS12L, FS13L, 403, 404, 404N, 405, 405N, 601, 602 | $10.00 |
| HID-300 | Aluminum Port, 300 Fibers | 201, 301, 401, 402 | $66.00 |
| HID-407 | Plastic Port, 300 Fibers | 007, 403 | $66.00 |
| HID-507 | Plastic Port, 300 Fibers | 501 | $66.00 |
| HID-707 | Port Kit for 701, 300 Fibers | 701 | $84.00 |

| Part Number: | Description: | Use: | List Price: |
|---|---|---|---|
| **Mounting Accessories** | | | |
| FS-VK | Ventilation Kit for FS11L, FS12L, FS13L | | $180.00 |
| FS-WB | Wall Mount Bracket | | $60.00 |
| TBK | T-Bar Mounting Kit | | $36.00 |

| Part Number: | Description: | Use: | List Price: |
|---|---|---|---|
| **Lamps** | | | |
| HI-071 | 71 Watts, MR16, 3000K | FS1L | $31.40 |
| HI-075 | 71 Watts, MR16, 3000K | 007, 007C, FS2L, FS11L | $18.00 |
| HI-100 | 100 Watts, MR16, 3000K | FS12L, FS13L | $33.80 |
| HI-110 | 183 Watts, MR16, 3000K | FS7L, 201 | $33.80 |
| HID-68 | 68 Watt, Metal Halide, 3500K | FS68 | $81.60 |
| HID-303 | 150 Watt, Metal Halide, 3000K | 301, 401, 402, 403 | $281.00 |
| HID-304 | 150 Watt, Metal Halide, 4000K | 301, 401, 402, 403 | $281.00 |
| HID-430 | 150 Watt, Metal Halide, 3000K | 404, 404N, 405, 405N | $301.00 |
| HID-440 | 150 Watt, Metal Halide, 4000K | 404, 404N, 405, 405N | $301.00 |
| HID-430MC | 150 Watt, Metal Halide, 3000K, Philips MasterColor® source | 404, 404N, 405, 405N | $351.00 |
| HID-440MC | 150 Watt, Metal Halide, 4200K, Philips MasterColor® source | 404, 404N, 405, 405N | $351.00 |
| HID-430MR | 150 Watt, Metal Halide, 3000K, Metal Reflector | 404, 404N, 405, 405N | $129.00 |
| HID-440MR | 150 Watt, Metal Halide, 4000K, Metal Reflector | 404, 404N, 405, 405N | $129.00 |
| HID-504 | 400 Watt, Metal Halide, 5600K | 501 | $561.00 |
| HID-601 | 250 Watt, Metal Halide, 6400K | 601, 602 | $480.00 |
| HID-701 | 400 Watt, Metal Halide, 5600K | 701, 701TT | $610.00 |

# Fiber Optic Cable

## Side-Emitting

| Part Number | Qty of Strands | Outer Diameter | Min Bend Radius | Max Spool Length (ft) | Outer Jacket | List Price | Technical Remarks: |
|---|---|---|---|---|---|---|---|

### BritePak® III

*Stranded Cable*

Side emitting stranded optical fiber. Patented cabling method allows maximum light distribution through the clear outer jacket. Recommended in lengths up to 100' for direct view applications, 50' for indirect applications. Both ends should be terminated. Can be cut to length at factory or in field. Use LB-HK-3 or FS-163 tools for harnessing. Minimum bend radius is 4x outer diameter.  Priced Per Foot.

| Part Number | Qty of Strands | Outer Diameter | Min Bend Radius | Max Spool Length (ft) | Outer Jacket | List Price | Technical Remarks: |
|---|---|---|---|---|---|---|---|
| BPAK-III-15 | 14 | 0.2", 5mm | 0.8", 20mm | 1000' | Clear PVC | $4.80 | |
| BPAK- III-40 | 42 | 0.24", 6mm | 0.9", 24mm | 1000' | Clear PVC | $8.20 | |
| BPAK- III -50 | 49 | 0.32", 8mm | 1.3", 32mm | 1000' | Clear PVC | $10.50 | |
| BPAK- III -75 | 77 | 0.39", 10mm | 1.6", 40mm | 800' | Clear PVC | $12.80 | |
| BPAK- III -100 | 98 | 0.43", 11mm | 1.7", 44mm | 600' | Clear PVC | $14.40 | |
| BPAK- III -150 | 140 | 0.55", 14mm | 2.2", 56mm | 500' | Clear PVC | $19.00 | |

### SuperStars®

*Stranded Cable*

SuperStars fiber creates an unbreakable decorative linear look of diamonds along its length. Available in two different sizes for use in low light applications such as isle way lighting. Recommended in lengths up to 100'. Both ends should be terminated. Can be cut and harnessed at factory or in field. Use LB-HK-3 or FS-163 tools for harnessing.  Minimum bend radius is 4x outer diameter.  Priced Per Foot.

| Part Number | Qty of Strands | Outer Diameter | Min Bend Radius | Max Spool Length (ft) | Outer Jacket | List Price | Technical Remarks: |
|---|---|---|---|---|---|---|---|
| SS-15 | 14 | 0.2", 5mm | 0.8", 20mm | 500' | Clear PVC | $5.10 | Diamonds of light 1 1/4" on center |
| SS-50 | 49 | 0.32", 8mm | 1.3", 32mm | 500' | Clear PVC | $11.00 | Diamonds of light 1 3/4" on center |

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# Fiber Optic Cable

## End-Emitting

| Part Number | Qty of Strands | Outer Diameter | Min Bend Radius | Max Spool Length (ft) | Outer Jacket | List Price | Technical Remarks: |
|---|---|---|---|---|---|---|---|

### FiberSpots® II

*Stranded Cable*

End emitting stranded fiber optic cable. Can be used with all stranded fiber fixtures for downlighting, case lighting, step lighting and for creating decorative patterns of light. Recommended in lengths up to 30.' Can be cut, harnessed, and ferruled at factory or in field. Use LB-HK-3 or FS-163 tools for harnessing. Use LB-HK-3, FS-163, or FS-118 tools for ferruling. Minimum bend radius is 4x outer diameter. Factory harnessing available upon request. Consult factory.  Priced Per Foot.

| Part Number | Qty of Strands | Outer Diameter | Min Bend Radius | Max Spool Length (ft) | Outer Jacket | List Price | Technical Remarks: |
|---|---|---|---|---|---|---|---|
| FSPT-II-1 | 1 | 0.16", 4mm | 0.6", 16mm | 1000' | Black PVC | $0.50 | |
| FSPT-II-2 | 2 | 0.16", 4mm | 0.6", 16mm | 1000' | Black PVC | $0.60 | |
| FSPT-II-3 | 3 | 0.2", 5mm | 0.8", 20mm | 1000' | Black PVC | $0.90 | |
| FSPT-II-5 | 5 | 0.2", 5.1mm | 0.8", 20mm | 1000' | Black PVC | $1.20 | |
| FSPT-II-8 | 8 | 0.24", 6mm | 0.9", 24mm | 1000' | Black PVC | $1.40 | |
| FSPT-II-10 | 10 | 0.24", 6mm | 0.9", 24mm | 1000' | Black PVC | $1.50 | |
| FSPT-II-12 | 12 | 0.28", 7mm | 1.1", 28mm | 1000' | Black PVC | $1.70 | |
| FSPT-II-18 | 18 | 0.28", 7mm | 1.1", 28mm | 1000' | Black PVC | $2.20 | |
| FSPT-II-25 | 25 | 0.28", 7mm | 1.1", 28mm | 1000' | Black PVC | $2.60 | |
| FSPT-II-30 | 30 | 0.28", 7mm | 1.1", 28mm | 1000' | Black PVC | $3.50 | |
| FSPT-II-50 | 50 | 0.39", 10mm | 1.6", 40mm | 1000' | Black PVC | $4.30 | |
| FSPT-II-62 | 62 | 0.42", 10.7mm | 1.7", 43mm | 1000' | Black PVC | $5.30 | |
| FSPT-II-75 | 75 | 0.43", 11mm | 1.7", 44mm | 1000' | Black PVC | $6.30 | |
| FSPT-II-100 | 100 | 0.51", 13mm | 2", 52mm | 600' | Black PVC | $8.50 | |
| FSPT-II-150 | 150 | 0.59", 15mm | 2.4", 60mm | 500' | Black PVC | $15.20 | |
| FSPT-II-225 | 225 | 0.75", 19mm | 3", 76mm | 250' | Black PVC | $19.50 | |
| FSPT-II-300 | 300 | 0.79", 20mm | 3.1", 80mm | 250' | Black PVC | $21.50 | |

### Fire Rated Jacket Cable

*Stranded Cable*

End emitting fiber optic cable enclosed in a fire-rated outer jacket.  Can be used with all stranded fiber fixtures for downlighting, case lighting, step lighting and applications requiring fire-rated cable.  Recommended in lengths up to 30'. Can be cut, harnessed, and ferruled at factory or in field. Use LB-HK-3 or FS-163 tools for harnessing.  Use LB-HK-3, FS-163, or FS-118 tools for ferruling. Minimum bend radius is 10x outer diameter.  Priced Per Foot.

| Part Number | Qty of Strands | Outer Diameter | Min Bend Radius | Max Spool Length (ft) | Outer Jacket | List Price | Technical Remarks: |
|---|---|---|---|---|---|---|---|
| FRFS-25 | 25 | 0.59", 15mm | 5.9", 150mm | 500' | White PVC | $3.50 | |
| FRFS-50 | 50 | 0.59", 15mm | 5.9", 150mm | 500' | White PVC | $5.20 | |
| FRFS-75 | 75 | 0.59", 15mm | 5.9", 150mm | 500' | White PVC | $7.40 | |

### Star Cable

*Stranded Cable*

End emitting fiber optic cable in different diameters to create star ceilings or other points of light that require varying degrees of brightness.  Recommended for star ceilings in lengths up to 30'. Can be cut and harnessed at factory or in field. Use LB-HK-3 or FS-163 tools for harnessing. Minimum bend radius is 4x outer diameter.  Priced Per Foot.

| Part Number | Qty of Strands | Outer Diameter | Min Bend Radius | Max Spool Length (ft) | Outer Jacket | List Price | Technical Remarks: |
|---|---|---|---|---|---|---|---|
| FS-30-J-2.2 | 1 | 0.16", 4mm | 0.6", 16mm | 1000' | Black PVC | $0.50 | Contains a single 0.75mm diameter strand |
| FS-40-J-2.2 | 1 | 0.14", 3.6mm | 0.6", 14mm | 1000' | Black PVC | $0.70 | Contains a single 1.0mm diameter strand |
| FS-60-J-2.2 | 1 | 0.14", 3.6mm | 0.6", 14mm | 1000' | Black PVC | $1.10 | Contains a single 1.5mm diameter strand |
| FS-80-J-3.0 | 1 | 0.14", 3.6mm | 0.6", 14mm | 1000' | Black PVC | $2.10 | Contains a single 2.0mm diameter strand |
| STAR-34/50 | 34 | 0.43", 11mm | 1.7", 44mm | 1000' | Black PVC | $6.30 | Contains 34 strands (24 @ 0.75mm, 7 @ 1.0mm, and 3 @ 1.5mm) that occupy 50 strands of space |

# Fixtures

| Part Number | Description | Finish Options | List Price: |
|---|---|---|---|

## Accent

### Interior

#### Fixed, Lensed

| Part Number | Description | Finish Options | List Price: |
|---|---|---|---|
| CRE2501 | Fixed Lens Downlight | White, Black, Silver, or Gold | $119.90 |
| FE-1111-XX | Fiberescent, Fixed Aim | White or Matte Black | $67.90 |
| | | Specular Silver or Polished Brass | $79.90 |
| FE-1701-XX | Futura, Fixed Aim Bevel Trim | White or Black | $119.90 |
| | *Includes FE-1700, FE-3112-CK, and Ferrules* | Aluminum or Anthracite | $129.90 |
| | | Gold, Silver, Brushed Chrome, or Graphite | $137.90 |
| FE-1702-XX | Futura, Fixed Aim Rivet Trim | White or Black | $119.90 |
| | *Includes FE-1700, FE-3112-CK, and Ferrules* | Aluminum or Anthracite | $129.90 |
| | | Gold, Silver, Brushed Chrome, or Graphite | $137.90 |
| FE-3112-CK | Lensed MR-16 Insert | | $52.00 |
| LBM06100721 | Large Lens Accent Fixture | Brass | $71.90 |
| LBM06100722 | Large Lens Accent Fixture | Silver | $81.90 |
| LBM061108301 | 4-Degree Lens | | $7.90 |
| LBM061108304 | 20-Degree Lens | | $7.90 |

#### Fixed, Unlensed

| Part Number | Description | Finish Options | List Price: |
|---|---|---|---|
| CRE1119 | 90-Degree Mirror | | $63.90 |
| CRE2502-XX | Clear or Frosted Glass Downlight | White, Black, Silver, or Gold | $115.90 |
| HPDL-15 | High Cut-Off Spotlight, 15-Degree | | $39.90 |
| HPDL-24 | High Cut-Off Spotlight, 24-Degree | | $39.90 |
| HPDL-40 | High Cut-Off Spotlight, 40-Degree | | $39.90 |
| LBM061209118 | Steplight or Wall Light | Black | $99.90 |
| LBM061209119 | Steplight or Wall Light | Silver | $99.90 |

#### Adjustable, Lensed

| Part Number | Description | Finish Options | List Price: |
|---|---|---|---|
| CRE1001-XX | Lensed Fully Adjustable | White or Black | $137.90 |
| | | Gold or Silver | $145.90 |
| CRE2225-XX | Miniature Lensed Spotlight *Threaded Ferrule Required* | Black or Silver | $97.90 |
| CRE2231-XX | Miniature Adjustable Lensed Downlight *Threaded Ferrule Required* | White, Black, Silver, or Gold | $131.90 |
| FE-1604-XX | Futura, Adjustable Aim, Beveled Trim | White or Black | $72.00 |
| | | Gold, Silver, Brushed Chrome, Aluminum, Anthracite, or Graphite | $91.00 |
| FE-2211-XX | Fiberescent, Adjustable Aim | White or Matte Black | $71.90 |
| | | Gold or Chrome | $85.90 |
| LBM06100621 | Lensed Fixture | Brass | $115.90 |
| LBM06100622 | Lensed Fixture | Silver | $115.90 |
| LBM06100822 | Extended Lensed Fixture | | $81.90 |
| LBMFLEX-LGL | Flexible Tube--Large Diameter | Various Lengths and Colors | Consult Factory |

#### Adjustable, Unlensed

| Part Number | Description | Finish Options | List Price: |
|---|---|---|---|
| CRE2224-XX | Miniature Spotlight | Black or Silver | $65.90 |
| LBM061001251 | Caselight 1 | | $109.90 |
| LBM061001252 | Caselight 2 | | $75.90 |
| LBM061001253 | Caselight 3 | | $75.90 |
| LBM06100524 | Caselight 4 | | $27.90 |
| LBM06100624 | Caselight 5 | | $121.90 |
| LBM06100222 | Lensless Aimable Fixture | | $85.90 |
| LBMFLEX-LG | Flexible Tube--Large Diameter | Various Lengths and Colors | Consult Factory |
| LBMFLEX-SM | Flexible Tube--Small Diameter | Various Lengths and Colors | Consult Factory |

# Fixtures

| Part Number | Description | Finish Options | List Price: |
|---|---|---|---|
| **Exterior** | | | |
| **Adjustable, Lensed** | | | |
| CRE2223 | Stem Mounted Spotlight | | $171.90 |
| CRE2610 | Buried Adjustable Spotlight | | $1,299.90 |
| LBM06120420 | Round, Recessed Adjustable Accent | | $175.90 |
| **Adjustable, Unlensed** | | | |
| FS-210 | FiberTwist | | $40.00 |
| | *Mount with FS-910 (see 'Anchors')* | | |
| FS-912 | Extension for FS-210 | | $14.00 |

## Decorative

### Interior

#### Fixed, Unlensed

| Part Number | Description | Finish Options | List Price: |
|---|---|---|---|
| CRE1101 | Micro Bullet | | $2.00 |
| CRE1102 | Mini Bullet | | $2.00 |
| CRE1103 | Bullet | | $5.90 |
| CRE1104 | Maxi Bullet | | $9.90 |
| CRE1105 | Icicle Bullet | | $7.90 |
| CRE1106 | Opal Ball | | $2.00 |
| CRE1107 | 5 Point Star | | $4.00 |
| CRE1108-XX | Micro Bullet With Bezel | Black or White | $3.90 |
| CRE1109-XX | Mini Bullet With Bezel | Black or White | $3.90 |
| CRE1110-XX | Bullet With Bezel | Black or White | $7.90 |
| CRE1111-XX | Bullet With Bezel | Black or White | $7.90 |
| CRE1112-XX | Maxi Bullet With Bezel | Black or White | $11.90 |
| CRE1113-XX | 5 Point Star With Bezel | Black or White | $5.90 |
| CRE1114-XX | Opal Ball With Bezel | Black or White | $5.90 |
| CRE2503-XX | Sparkle Point | Black, White, Silver, or Gold | $101.90 |
| CRE2504-XX | Drop Acrylic Rod | Black, White, Silver, or Gold | $101.90 |
| CRE2505-XX | Drop Acrylic Cone | Black, White, Silver, or Gold | $105.90 |
| CRE2506-XX | Drop Acrylic Tube | Black, White, Silver, or Gold | $105.90 |
| CRE2507-XX | Wall Washer | Black, White, Silver, or Gold | $113.90 |
| FE-9001 | Fine Point | | $14.20 |
| FE-9002 | Ball Lens | | $21.90 |
| FE-9003 | Crystal Point | | $22.80 |
| FE-9004 | Large Crystal Point | | $30.00 |
| FE-9050 | Mini Bullet Fixture with Ferrule | | $2.80 |
| A11773 | Ferrule (use with or without FE-9050) | | $0.90 |
| FIBERGLOBE | Hollow Plastic "G" Lamp | Clear or Frosted | $30.00 |
| FS-310-5 | FiberStick-5" | | $56.00 |
| | *Mount with FS-910 (see 'Anchors')* | | |
| FS-310-9 | FiberStick-9" | | $64.00 |
| | *Mount with FS-910 (see 'Anchors')* | | |
| FS-310-12 | FiberStick-12" | | $72.00 |
| | *Mount with FS-910 (see 'Anchors')* | | |

### Exterior

#### Fixed, Unlensed

| Part Number | Description | Finish Options | List Price: |
|---|---|---|---|
| CRE2601 | Micro Mini Bollard | | $91.90 |
| CRE2602 | Micro Decorative Flat Bollard | | $115.90 |
| CRE2603 | Micro Lateral Flat Bollard | | $123.90 |
| CRE2604 | Micro Domed Flat Bollard | | $121.90 |

# Fixtures

| Part Number | Description | Finish Options | List Price: |
|---|---|---|---|

## Paver

### Exterior

#### Fixed, Unlensed

| Part Number | Description | Finish Options | List Price: |
|---|---|---|---|
| CRE1207-XX | Micro Paver | Clear or Frosted Lens | $59.90 |
| CRE1208-XX | Mini Paver | Clear or Frosted Lens | $117.90 |
| CRE1209-XX | Standard Paver | Clear or Frosted Lens | $143.90 |
| CRE1210-XX | Domed Paver | Clear or Frosted Lens | $139.90 |
| CRE2320-XX | Eyelid Paver | Clear or Frosted Lens | $227.90 |
| CRE2321-XX | Small Screw-Fix Paver | Clear or Frosted Lens | $145.90 |
| CRE2322-XX | Large Screw-Fix Paver | Clear or Frosted Lens | $143.90 |
| CRE2323 | Cone Paver | Clear Lens | $139.90 |
| CRE2324 | Dichroic Glass Paver | | $159.90 |
| CRE2325 | Large Domed Paver | Frosted Lens | $221.90 |
| CRE2302 | Optional Spring Mounting Adapter for CRE-2320, -2321, -2322, -2323 | | $31.90 |
| FS-710 | Small Tile Paver Fixture | | $68.00 |
| FS-711-XX | Large Tile Paver Fixture | Flat or Domed Frosted Cover | $112.00 |
| FS-712 | Small Poured-In Place Paver Fixture | | $20.00 |
| FS-713 | Large Poured-In Place Paver Fixture | | $20.00 |

## Underwater

### Exterior

#### Fixed, Lensed

| Part Number | Description | Finish Options | List Price: |
|---|---|---|---|
| CRE2153 | Fountain Spotlight | | $101.90 |
| LBM06100819 | Lensed Fountain Spotlight | Stainless Steel | $73.90 |
| LBM06100820 | Lensed Fountain Spotlight | Bronze | $75.90 |
| LBM061208202 | Mini-Fountain Fitting | | $57.90 |
| LNS-100-X | Underwater Lensed Fixture *Also order FS-117 (See 'Tools')* | LNS-100G (White) or LNS-100BLG (Black) | $30.00 |
| | | LNS-100A (White, with Locking Nut) | $30.00 |
| | | Optional B11458 Broadcast Lens | $10.00 |
| LNS-225-X | Underwater Lensed Fixture *Also order FS-117 (See 'Tools')* | LNS-225G (White) | $30.00 |
| | | LNS-225A (White with Locking Nut) | $30.00 |
| | | Optional B11458 Broadcast Lens | $10.00 |

#### Fixed, Unlensed

| Part Number | Description | Finish Options | List Price: |
|---|---|---|---|
| LBM06102030S2 | Underwater Lensed Fixture | Stainless Steel | $503.90 |

#### Adjustable, Lensed

| Part Number | Description | Finish Options | List Price: |
|---|---|---|---|
| LBM06102120 | Recessed Underwater Accent | | $363.90 |
| LBM06102121 | Yoke Mounted Underwater Accent | | $135.90 |

# Ferrules

| Part Number | Description | Notes | List Price |
|---|---|---|---|
| A10516-01 | Ferrule, 25 strands | For FE-1111-XX, FE-2211-XX, & FE-3112-CK | $3.20 |
| A10516-02 | Ferrule, 50 strands | For FE-1111-XX, FE-2211-XX, & FE-3112-CK | $3.20 |
| A10516-03 | Ferrule, 75 strands | For FE-1111-XX, FE-2211-XX, & FE-3112-CK | $3.20 |
| A10516-04 | Ferrule, 100 strands | Custom, consult factory for fixture use | $3.20 |
| A10516-05 | Ferrule, 150 strands | Custom, consult factory for fixture use | $3.20 |
| CRE-FRL8 | Ferrule, 8mm, 50 strands | For CRE fixtures, specify strand count used | $10.00 |
| CRE-FRL10 | Ferrule, 10mm, 75 strands | For CRE fixtures, specify strand count used | $10.00 |
| CRE-M10/25 | Ferrule, 10mm Threaded, 25 strands | For CRE threaded fixtures, 1-25 strands | $10.00 |
| CRE-M10/50 | Ferrule, 10mm Threaded, 50 strands | For CRE threaded fixtures, 26-50 strands | $10.00 |
| CRE-M10/75 | Ferrule, 10mm Threaded, 75 strands | For CRE threaded fixtures, 51-75 strands | $10.00 |
| LBM00602011 | Ferrule, 8mm, 3 strands | For LBM fixtures, specify strand count used | $10.00 |
| LBM00602061 | Ferrule, 8mm, 5 strands | For LBM fixtures, specify strand count used | $10.00 |
| LBM00602021 | Ferrule, 8mm, 12 strands | For LBM fixtures, specify strand count used | $10.00 |
| LBM00602031 | Ferrule, 8mm, 25 strands | For LBM fixtures, specify strand count used | $10.00 |
| LBM00602051 | Ferrule, 8mm, 30 strands | For LBM fixtures, specify strand count used | $10.00 |
| LBM00602041 | Ferrule, 8mm, 50 strands | For LBM fixtures, specify strand count used | $10.00 |
| LBM00602081 | Ferrule, 10mm, 75 strands | For LBM fixtures, specify strand count used | $10.00 |

# Star Kits

| Part Number | Description | Notes | Price Each |
|---|---|---|---|
| Star Kit A | Small Star Kit | 10 foot fiber tails; 120V and 240VI | $689.00 |
| Star Kit B | Small Star Kit, with Shooting Star | 10 foot fiber tails; 120V only | $1,625.00 |
| Star Kit C | Large Star Kit, with 2 Shooting Stars | 20 foot fiber tails; 120V only | $2,759.00 |

# Tools, Accessories, and Services

| Part Number: | Description: | Details: | List Price: |
|---|---|---|---|
| **Anchors** | | | |
| FS-112 | Epoxy, 2-part | Use with FS-113, FS-114 | $20.50 |
| FS-113 | Epoxy Mixing Nozzle | Use with FS-112, FS-114 | $2.00 |
| FS-114 | Epoxy Applicator Gun | Use with FS-112, FS-113 | $110.00 |
| FS-115 | Epoxy Epoxy Kit | Approved for adhering fibers and ferrules; disposable kit | $26.00 |
| FS-131 | Double-sided Tape | For TEMPORARY mounting of side-emitting fiber cables; 5/16" wide x 165' long (8mm x 50m); use with FS-136 | $33.00 |
| FS-136 | Silicone Adhesive | Approved for adhering side-emitting fibers and track, 10.3oz Tube (300 ml) | $12.00 |
| FS-138 | Silicone Adhesive (case) | Approved for adhering side-emitting fibers and track, case of (24) 10.3oz Tubes (300 ml) | $260.00 |
| FS-910 | Ground Mounting Stake | 6 inch (150mm) black plastic stake used for installing FS-210 and FS-310 into soil or similar materials. | $6.00 |
| FS-912 | Extension for FS-210 | 6 inch (150mm) black plastic ball joints used for extending the length of the FS-210. | $14.00 |
| HI-102 | P-Clips, 0.48"w x 0.84"l x 0.38"h (12mm x 21mm x 10mm) | PVC clips for mounting BPAK-15 and SS-15 in curved lines and securing very small FSPT if desired | $0.40 |
| HI-103 | P-Clips, 0.48"w x 1"l x 0.48"h (12mm x 25mm x 12mm) | PVC clips for mounting BPAK-40, BPAK-50, and SS-50 in curved lines and securing small FSPT if desired | $0.40 |
| HI-104 | P-Clips, 0.48"w x 1.2"l x 0.62"h (12mm x 30mm x 16mm) | PVC clips for mounting BPAK-75 and BPAK-100 in curved lines and securing medium FSPT if desired | $0.40 |
| HI-105 | P-Clips, 0.48"w x 1.2"l x 0.68"h (12mm x 30mm x 17mm) | PVC clips for mounting BPAK-150 in curved lines and securing large FSPT (up to FSPT-150) if desired | $0.80 |
| RFL-4 | Track, 1.875"w x 5' Long x 0.32"h (48mm x 1524mm x 8mm) | Reflective Track for mounting BPAK; use with u-Track and Double Sided Tape | $21.70 |
| TRK-5/8 | U-Track, 0.63" Square x 6' Long (16mm x 1.83m) | PVC extrusion for mounting BPAK-150 cable in straight or slightly curved lines | $15.60 |
| TRK-U1/2 | U-Track, 0.59" Square x 6' Long (15mm x 1.83m) | PVC extrusion for mounting BPAK-75 and BPAK-100 cable in straight or slightly curved lines | $13.20 |
| TRK-U3/8 | U-Track, 0.46" Square x 6' Long (11.7mm x 1.83m) | PVC extrusion for mounting BPAK-40 and BPAK-50 cable in straight or slightly curved lines | $10.20 |
| **Cutting Tools** | | | |
| FS-118 | Light-Duty Hot Knife with New-Style Shovel-Type Blade | 60 watt electric hot knife for porting small bundles of fiber into ferrules or small port tips; 120V only | $132.00 |
| FS118A | 5 Replacement Blades | Old-Style (X-acto) blades for FS-118 | $8.80 |
| FS-163 | Standard Hot Knife | Butane hot knife for porting bundles of fiber into ferrules or port tips. | $390.00 |
| 01-15001-00 | Replacement Blade | Shovel-type blades; For FS-163 and New-Style FS-118 | $38.00 |
| LB-HK-3 | Heavy Duty Hot Knife | Contractor grade electric hot knife for porting bundles of fiber into ferrules or port tips; 120V only | $600.00 |
| LB-HK3-BLADE | Replacement Blade | | $30.00 |
| **Installation Tools** | | | |
| FS-117 | Lens Wrench for LNS Fixture | Used to tighten lens onto lens housing | $10.50 |
| FS-915 | Lens Wrench for FS-711 Fixture | Used to tighten lens onto fixture | $68.00 |
| FS-DP4 | Star Ceiling Drill Bit Kit | Set of (4) bits in three sizes for use drilling through gypsum (drywall) or cellulose (ceiling tile) ceilings | $20.00 |
| **Services** | | | |
| HF-1 | Factory Assembled Harness/Port | Per port, does not include assembly of ferruled tips or any materials | $40.00 |
| HF-2 | Factory Assembled Ferrule Tips | Per tip, does not include assembly of harness/port or any materials | $40.00 |
| HF-4 | Factory Fiber Cutting | Per cut, fiber cut to length. Does not include assembly of ferruled tips, harness/port, or any materials | $30.00 |

# POLICIES: Order Processing

**BEFORE AN ORDER CAN BE RELEASED TO MANUFACTURING:**

1.  The original purchase order must be sent via fax, e-mail or mail.
2.  If the order does not meet the minimum order amount of $100, a $25 service charge will be added to the order, except for replacement parts (lamps, c/w motor, ballast, etc).
3.  The purchase order must reference a job name, specifier, job location, Fiberstars estimate/quote number and terms.
4.  FOB & PPD: **Customer Purchase Order must reflect our standard freight terms**, collect, no freight allowed. **Order must state: FOB-Fremont, Factory, Origin, or Shipping Point.**
5.  To ensure the fastest delivery, all pertinent information needs to be included. Lack of complete information will delay the order process.
6.  International orders will be held and shipped complete unless otherwise indicated on the purchase order.

## Product Specifications

1.  When listing individual part numbers, always make sure that every part number is complete. For example, when ordering any illuminator, specify the following:
    a.  Type of lamp for 404N and 405N only — 3000ºK or 4000ºK
    b.  Speed of color wheel motor (1.0 or 3.6 RPM)
    c.  Color wheel selection (for C1, C4 or C8) and the sequence of colors, start color for synchronized units
    d.  Voltage/Hz (120V, 60 Hz, etc.)
    e.  Options (synchronization, variable delay, dimmable ready, DMX, etc)
2.  When ordering fiber optic cable or track, the quantity should be indicated as a unit of measure: fiber footage / # of pieces of track. (If more than one cut is required on fiber length, a cutting charge per cut will be incurred)
3.  Make sure all installation materials are included in the order such as silicone, epoxy, ferrules double-sided tape, etc.
4.  Always remember to add a hot knife to all new orders. It is a required and reusable tool for installation (Part number FS-118, FS-163, or LB-HK3)

# POLICIES: International Terms and Conditions

**Credit**  All payments must be made in U.S. dollars.  International orders will only be accepted with wire transfer, letter of credit, credit card, or U.S. funds check on U.S. bank with order.  Payment may be rendered in one of the following methods:

> **1. Prepayment**          Mail to:          Fiberstars, Inc.
>                                     Attn.:          Accounts Receivable
>                                                       44259 Nobel Drive
>                                                       Fremont, CA 94538

> **2. Direct Wire Transfer** or **Irrevocable Commercial Letter of Credit**:

| **Bank Information:** | **Beneficiary:** |
|---|---|
| Comerica Bank | Fiberstars, inc. |
| 333 West Santa Clara | 44259 Nobel Drive |
| San Jose, CA 95113 | Fremont, CA 94538 |
| Account: 1891867473 | Telephone: 510-490-0719 |
| ABA Number:  121137522 | **Charges:** All banking charges are for the account of |
| SWIFT Code: MNBDUS33 | the applicant. A $200 US processing fee will be charged for any L/C under $10,000 US. |

> 3.   **Credit Card**  Visa, MasterCard, or American Express may be used for pre-payment. **A three percent (3%) service charge will be added on all credit card transactions.**

**Orders**  Orders will only be accepted with a written purchase order signed by the purchaser.  Written confirmation of a phone order must be clearly marked "CONFIRMATION."  Fiberstars will not be responsible for duplications.

**Cancellation**  If a sales order is cancelled after the order is in production, there will be a $100.00 cancellation processing fee as well as up to a 50% restocking charge.

**Freight**  All prices are F.O.B. Fremont, CA, USA.  Shipping method must be specified on the purchase order.  If method is not indicated, Fiberstars will choose best method.  All estimates of freight costs before actual shipment are only estimates and Fiberstars is not liable for the difference between an estimate and the actual cost of the shipment.

**Loss or Damage**  The purchaser should take up loss or damage of shipments with the purchaser's local agent of the shipping firm.  We will provide a copy of the original bill of lading and can provide assistance in filing your claim with the carrier.

**Limited Warranty**  Fiberstars, Inc. warrants its fiber optic cable to be free from defects in material and/or workmanship, under normal use and service, for a period of **two years** from the date of original purchase, provided the product is installed to the specifications outlined by Fiberstars.  Fiberstars, Inc. warrants its illuminators, hardware and fixtures *excluding the lamp* to be free from defects in material and/or workmanship, under normal use and service, for a period of **one year** from the date of original purchase, provided the product is installed to the specifications outlined by Fiberstars.  In the event of a defect in material or workmanship during the warranty period, Fiberstars will repair or replace (at its option) your lighting system component, under the conditions of the warranty.  See Limited Warranty Policies sheet for details.

**Returns**  All returns require a Return Goods Authorization Number (RGA #).  Fiberstars will not be responsible for product returned without an RGA #.  Refer to Returned Goods Authorization Policies sheet for further details.

# POLICIES: Returned Goods Authorizations

**Get an RGA Number**   All returns require a Return Goods Authorization Number (RGA #).  Call Fiberstars' Customer Support Department at 1-800-327-7877, ext. 300 before returning any products to get an RGA number.  Fiberstars will not be responsible for product returned without an RGA number.

**Expiration Date**   RGA numbers are good for a period of 90 days from issuance.

**Minimum Restocking Charge**   A minimum restocking charge of 50% will be made on standard products returned in their factory sealed shipping cartons within three months (90 Days) of original shipping date. Products are not returnable for credit or exchange after 90 days.

Custom products including fiber tubing cut to length, color wheels, products that have opened cartons and/or products that have been used are not returnable.

**Shipping**   Fiberstars is not responsible for shipping charges incurred when returning product to or from the factory.  When returning any products, the RGA number must be clearly marked on each carton. Products should be returned to:

> Fiberstars, Inc.
> Attn:  RGA # _____  (***MUST** be on outside of box to avoid refusal*)
> 44259 Nobel Drive
> Fremont, CA  94538

**Limited Warranty**   Fiberstars, Inc. warrants its fiber optic cable to be free from defects in material and/or workmanship, under normal use and service, for a period of **two years** from the date of original purchase, provided the product is installed to the specifications outlined by Fiberstars.  Fiberstars, Inc. warrants its illuminators, hardware and fixtures *excluding the lamp* to be free from defects in material and/or workmanship, under normal use and service, for a period of **one year** from the date of original purchase, provided the product is installed to the specifications outlined by Fiberstars.  In the event of a defect in material or workmanship during the warranty period, Fiberstars will repair or replace (at its option) your lighting system component, under the conditions of the warranty. See Limited Warranty Policies sheet for details.

**Reimbursement Costs**   Fiberstars is not responsible for costs incurred when removing product to be returned for repair or for reinstallation costs after repair.

# POLICIES: Limited Warranty

Fiberstars, Inc. ("Fiberstars"), warrants its fiber optic cable to be free from defects in material and/or workmanship, under normal use and service, for a period of **two years** from the date of original purchase, provided the product is installed to the specifications outlined by Fiberstars. Fiberstars warrants its illuminators, hardware, and fixtures *excluding the lamp* to be free from defects in material and/or workmanship, under normal use and service, for a period of **one year** from the date of original purchase. A Lighting System is defined as a Fiberstars Illuminator coupled with Fiberstars fiber optic cable to deliver fiber optic lighting. The use of a Fiberstars component (illuminator or fiber optic cable) with a non-Fiberstars component voids all warranties. Fiberstars components are designed to be part of a Fiberstars system. Their use with other components will affect their performance and therefore will not be under warranty.

In the event of a defect in material or workmanship during the warranty period, Fiberstars will repair or replace (at its option) the component(s) under the conditions of this Warranty. Fiberstars will do so at its expense for the cost of materials but not for shipping. THIS REMEDY IS THE SOLE AND EXCLUSIVE REMEDY FOR ANY AND ALL CLAIMS RELATING TO ANY BREACH OF WARRANTY BY FIBERSTARS.

LIMITATIONS, EXCLUSIONS AND OTHER RIGHTS:

A. EXCEPT AS PROVIDED HEREIN, FIBERSTARS MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ALL SUCH WARRANTIES ARE EXPRESSLY DISCLAIMED. Some states do not allow the exclusion of an implied warranty, so the above exclusion may not apply to you.

B. IN NO EVENT SHALL FIBERSTARS BE LIABLE FOR INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF FIBERSTARS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. THIS DISCLAIMER APPLIES DURING AND AFTER THE WARRANTY PERIOD. Some states do not allow the exclusion or limitation of indirect, incidental or consequential damages, so the above limitation or exclusion may not apply to you.

C. Fiberstars is not responsible for defects or malfunctions in and/or damage to Lighting Systems where a sale is specifically made without warranty. In such sales, the disclaimers of warranty and liability, set forth above, shall continue to apply.

D. This Warranty covers normal consumer use and does not cover damage which occurs in shipment or failure with results from alteration, accident, theft, misuse, abuse, abnormal use, negligent installation, improper maintenance or where adequate care has not been taken to prevent ice or snow damage to the Lighting System.

E. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

If you discover a defect or malfunction during the period to which this Warranty applies, write or phone Fiberstars for information on receiving warranty service. Please address your inquiries to:

> Fiberstars, Inc.
> Warranty Service/Customer Support
> Commercial Lighting Division
> 44259 Nobel Drive
> Fremont, CA 94538 USA
> 1-800-327-7877 ext#300

# Illuminator Mounting

## All Illuminators

- Minimum clearance of 24" (on all sides except bottom) and must have sufficient ventilation.
- Must be accessible for relamping and maintenance.
- All illuminators can be mounted horizontally on a flat surface.
- Some can be mounted vertically in the recommended positions below (arrow indicates air flow).
- FS1L and 602 can only be mounted horizontally on a flat surface.
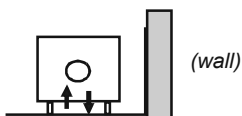
## FS7L, FS11L, FS12L, FS13L Illuminators

Mount illuminators either: 1) horizontally on a flat surface, or 2) vertically on a wall (refer to diagrams).

Port to the top

Port to the bottom
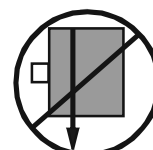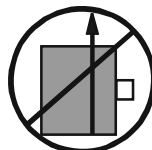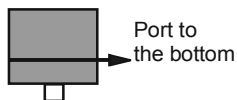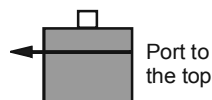
For FS7L only; FS11L, FS12L & FS13L can be mounted port right.

## 404N Illuminators

Mount illuminators either: 1) horizontally on a flat surface, or 2) horizontally to a vertical surface (refer to diagrams).

*(wall)*  Side view from port side with "L" brackets
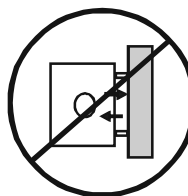
## 405N Illuminators

Mount illuminators either: 1) horizontally on a flat surface, or 2) vertically on a wall (refer to diagrams).

Port to the top

Port to the right
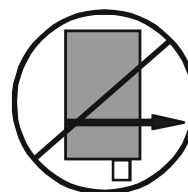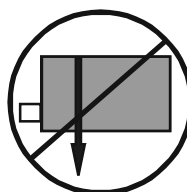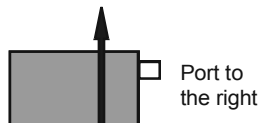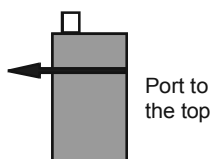
## 601 Illuminators

Mount illuminators either: 1) horizontally on a flat surface, or 2) vertically on a wall (refer to diagrams).

Port to the right
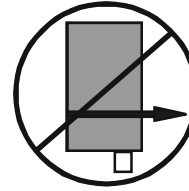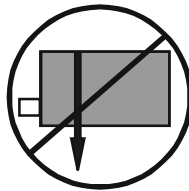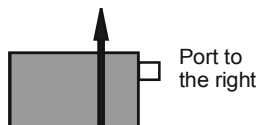
# Porting Instructions

## 1. Pre Heat the Hot Knife

Plug in or ignite the hot knife (#FS-118, FS-163, or LB-HK-3).  Hold or prop the knife vertically so the blade tip is up.  Allow it to heat for 8 - 10 minutes.

## 2. Assemble the Optical Port

### Zinc Port

Screw the compression fitting onto the back of the zinc port.

Select a ferrule tip and slide it into the port, using the keyway to align.

> Small Ferrule = up to 100 fibers
> Medium Ferrule = up to 200 fibers
> Large Ferrule = up to 300 fibers
> XLarge Ferrule Options: 400, 450, 600

(Special applications. See illuminator sections.)

### Plastic Port

Select a ferrule tip and slide it into the port, using the keyway to align.

> Small Ferrule = up to 100 fibers
> Midsize Ferrule = up to 150 fibers
> Medium Ferrule = up to 200 fibers
> Large Ferrule = up to 300 fibers

Slide cutting cap over the ferrule.

If using 501 port, slide the black boot over the fiber tubing so the opening faces the ends of the fiber tubing.

### Aluminum Port

Select a ferrule tip and slide it into the port. Secure it with the setscrew.

> Small Ferrule = up to 100 fibers
> Medium Ferrule = up to 211 fibers
> Large Ferrule = up to 300 fibers

## 3. Strip Off the Outer Tubing

About 9" from each end, score around the circumference of the tubing so that it cuts the tubing but not the fibers.
*Important: do not nick or cut the fibers.* Pull off the outer tubing.

If using BritePak® or SuperStars® fiber optic cable, unwind the mylar wrap and cut off.  Loosen the fibers thoroughly from the cabling by rubbing/rolling the fibers between your palms so that they are loose and straight.

## 4. Insert the Fibers into the Optical Port

Push fibers through the large end of the optical port.  Rotate the port to help feed the fibers through easier.  The edges of the outer tubing should wedge against the inside of the port where it begins to narrow.  The fibers should extend 3" - 4" beyond the ferrule.  *Caution: do not break or crimp fibers.*

## 5. Clamp the Fiber Tubing

### Zinc Port

Insert dummy plug if needed to take up extra space. Tighten the compression fitting to apply pressure on the tubing to hold it in place

### Plastic Port

Partially screw down clamp. Use the dummy plugs or spacers to take up extra space. Tighten the screws so the clamp applies pressure on the tubing to hold it in place.

### Aluminum Port

Partially screw down clamp. Use the dummy plugs to take up extra space. Tighten the screws so the clamp applies pressure on the tubing to hold it in place.

## 6. Stuff the Ferrule Tip

With scissors or Fiskars®, cut off about 2" of loose fibers.  Stuff the ferrule tip around the edge with these fibers until no space remains between the fibers.  This will help prevent the fibers from pulling back or melting.

## 7. Cut the Fibers with the Hot Knife

*Note: This step is critical.*
Place the preheated hot knife blade with the cutting edge against the ferrule tip or cutting cap.  The top of the blade should tilt slightly away, about 2°.  With downward pressure, cut through the fiber bundle. As you cut, rotate the port slowly.  Do not saw back and forth.  When properly heated, the hot knife should take 10 - 15 seconds to cut the fibers.  The fiber ends should look clean and flat.  Uneven cuts, debris, or the oil from your fingers will diminish the light output.  Once cut, do not touch the fiber ends with your fingers.

(For plastic port, remove the cutting cap.)

## 8. Insert the Finished Optical Port into the Illuminator

# GROUP RE-LAMPING

A group re-lamping program is extremely important to ensure the integrity of fiber optic lighting projects.

- **In an end-emitting application (i.e. downlights) group re-lamping is crucial to ensure consistent light output from all downlights in an area.** Lamps must be replaced in all illuminators at the same time. If the lamps are replaced on an "as needed" basis, some groups of downlights will appear brighter and/or a different color than other groups of downlights.

- **The situation is even more noticeable with a side-emitting application** (i.e. neon replacement). For example, if you have a lamp failure in one illuminator on a run of fiber that is fed from two illuminators and only the failed lamp is replaced; your fiber run could be noticeably brighter at one end than at the other. To avoid this situation, group re-lamping is the solution.

- **Group re-lamping should take place at 80% of manufacturer's rated lamp life.** A percentage of the working lamps replaced should be kept. These lamps would be used for any early failures and should last until the next scheduled re-lamping.

- **If lamps are burned beyond rated life, light output diminishes** while energy consumption and risk of rupture increases. Metal halide lamps are constructed of an outer bulb with an internal arc tube made of quartz. The arc tube operates under high pressure at very high temperatures. The arc tube and the outer bulb may unexpectedly rupture due to internal causes or external factors.

- **Continuous operation can lead to unexpected lamp rupture.** Since Fiberstars' 404N, 405N, 601, and 602 illuminators use metal halide lamps, we recommend that in continuously operating systems (24 hours/day, 7 days/week), turn lamps (illuminators) off once per day for at least one hour. Failure to comply increases the chance of rupture. Please include this recommendation on all projects that are specified with Fiberstars fiber optic lighting systems.

- **Without a re-lamping program, projects have a tendency to deteriorate.** Low light and/or uneven output will result in complaints, which will lead to customer service calls. The bottom line is that Fiberstars and fiber optic lighting in general will be viewed in a negative light.

Please encourage your specifiers and end users to utilize a group re-lamping program. This will keep all Fiberstars projects working to their maximum potential, which will keep the customer satisfied.

# Troubleshooting Guide

### Fiber optic cable not as bright as when first installed

- Check lamp and re-lamp if necessary.
- Fiber optic cable has pulled back out of port. Replace to focal point.
- Inspect fiber cut at port. If multi-strand fiber doesn't have a honeycomb-like look, then re-port. If fiber looks melted or discolored, re-port.

### Fiber optic cable has melted

- Check to make sure fan is working.
- Check to make sure illuminator is installed to specifications in installation manual.
- Be sure fiber port is cleaned before re-porting. IPA alcohol can be used to clean port.
- Recut fiber optic cable at least 8-10 inches behind melted fiber following instructions in installation manual.

### Illuminator will not come on

- Check wiring for input voltage.
- Check circuit breaker.
- If color wheel and fan come on, lamp may need to be changed.
- If a lamp is having trouble starting, it is near the end of its life. Replace lamp.
- Make sure lid is closed completely in order to make contact with the limiting switch.

### Illuminators will not sync with each other

- Check low voltage wiring. Make sure no wires are crossed or shorted.
- 9V battery test: take the battery to the low voltage wires out of the back of the slave illuminator. Connect the black wire to the negative side of battery. Connect the red and green wire to the positive side of battery. Apply power to the illuminator and the color wheel should rotate. If it does not, contact factory. (This test does not work with master illuminator.)
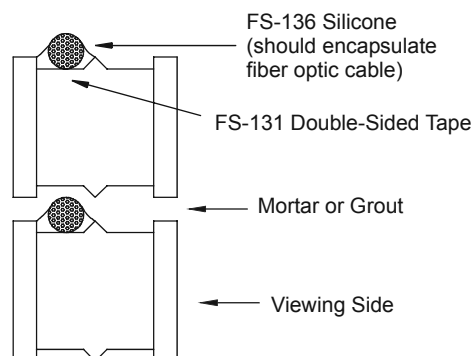
### Illuminator comes on for 5-15 minutes, then turns off

- Check lamp, it may be at the end of life. Replace lamp.
- Check fan when illuminator turns on. If the fan has stopped, the illuminator is overheating. Refer to installation manual for mounting requirements.
- If illuminator is overheating, the thermal cutoff may need to be replaced.

### Color wheel will not rotate

- Check color wheel to insure the progress is not impeded.
- Check wiring to switch to insure a good electrical path is present.
- Make sure the color wheel is securely attached to the color wheel motor shaft by tightening the locknut and the Loctite dab is intact.

# Glass Block Installation

FS-136 Silicone (should encapsulate fiber optic cable)

FS-131 Double-Sided Tape

Mortar or Grout

Viewing Side

*Note: Diameter of fiber must accommodate glass block clearance.*

## Mortar Joint Method (Between Mortar Joints)

Mount fiber optic cable directly between glass blocks. Use glass block without edge coating. If you do select a glass block that has edge coating, it must be removed to allow light transmission.

Tack fiber optic cable to the top of the row of glass block with hot glue to hold it in place and create a straight line along the top of the block. Run a heavy bead of Fiberstars silicone adhesive (FS-136) on both sides of fiber optic cable. Apply mortar to joint and set the block.

On the ends of the glass block wall, a channel will have to be created to hide the fiber optic cable where it passes from course to course. This channel must be a minimum of 2" deep to avoid kinking the fiber optic cable.
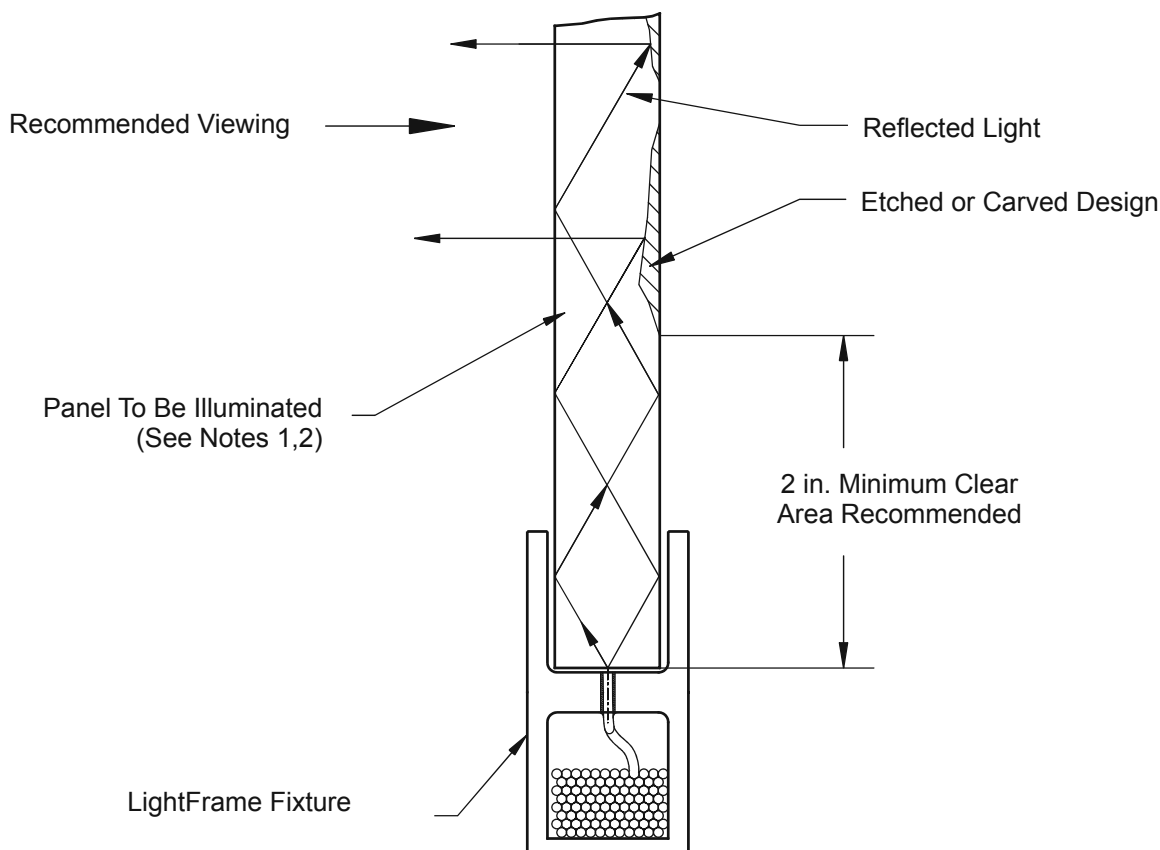
## Backlit Method (Behind Glass Blocks)

Paint background white.

Install track and fiber optic cable 3" - 6" behind glass blocks on white background at the midpoint of each course of glass block. Using adhesive and screws, install track as straight as possible.

Run a bead of adhesive inside the track to help keep the fiber optic cable in place. Press the fiber optic cable into the track, being careful not to kink or bend the fiber optic cable more than a 2" bend radius. Do not use cap.

3"

Glass Block

Mortar Joint

Backwall (Painted white)

Fiber Optic Cable

Track (attached with screws 12" O.C.)

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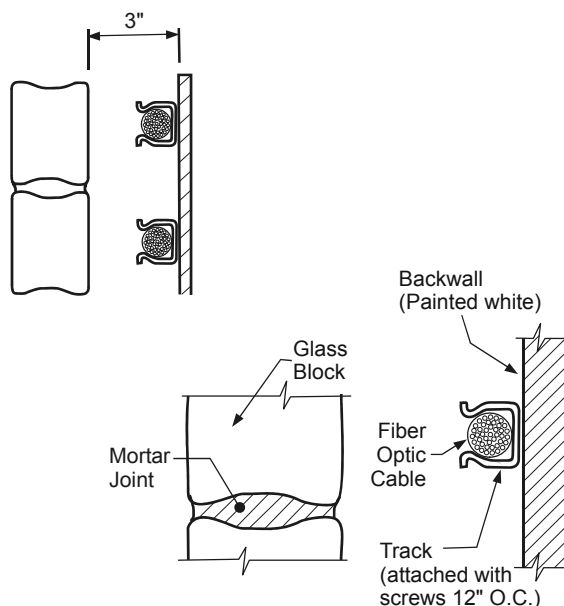
# Edge Lit Glass Installation

Recommended Viewing

Reflected Light

Etched or Carved Design

Panel To Be Illuminated
(See Notes 1,2)

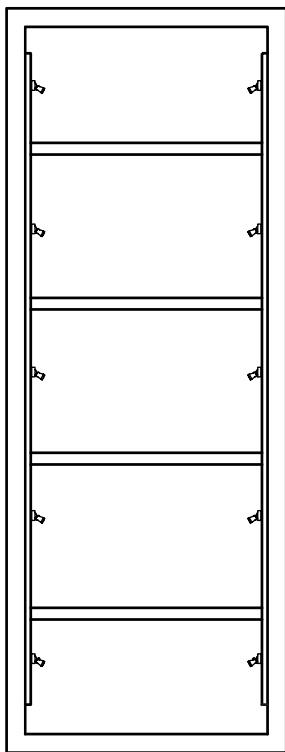2 in. Minimum Clear
Area Recommended

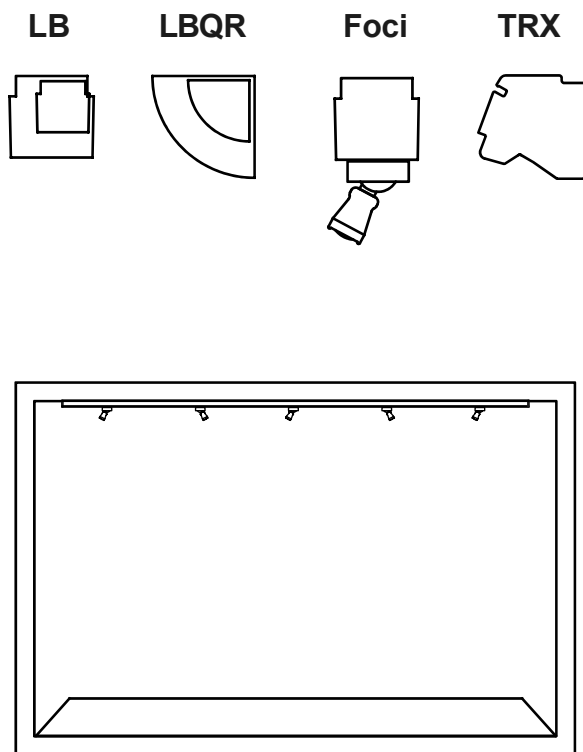LightFrame Fixture

**Section View Thru
Fixture & Panel**

NOTES:

1. *(Very Important)* Glass shall support fixture--fixture cannot support glass

2. Glass edge in contact with LightFrame fixtures must be polished or clean break.

3. Acrylic edge in contact with LightFrame fixtures must be polished clear.

4. Install illuminator in vented location within 30 feet of illuminated panel.

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# Display Case Installation

**LB**    **LBQR**    **Foci**    **TRX**

### Tall Case
Vertical Fixture Orientation (Sides)

### Long Case
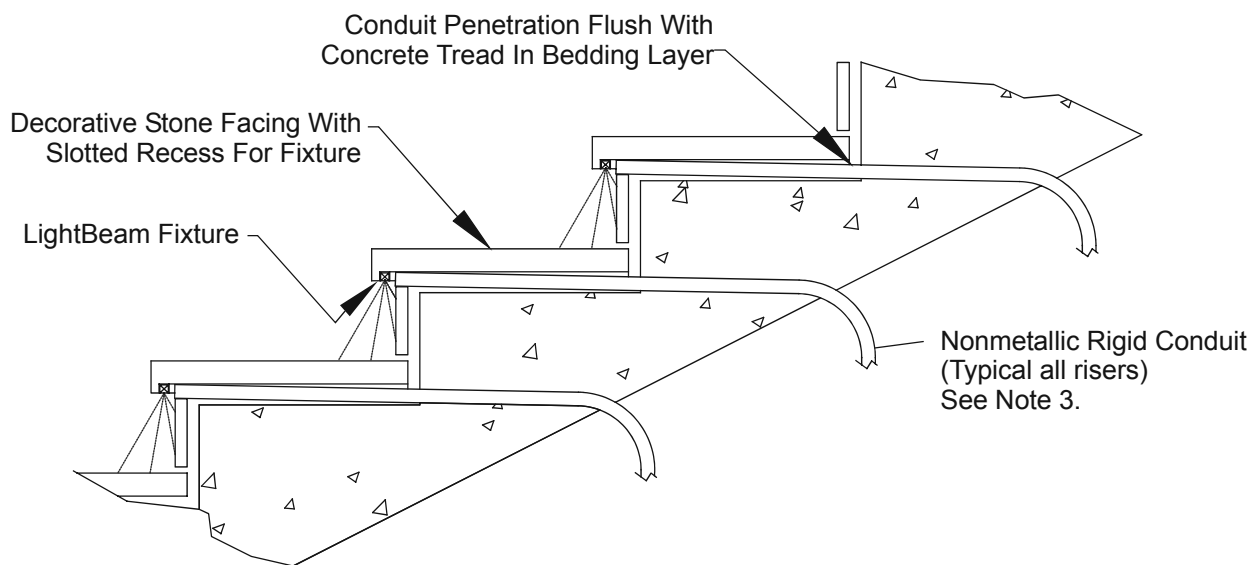Horizontal Fixture Orientation (Top)

**NOTES:**

1. Attach fixtures with adjustable LB-MB brackets using threaded fasteners and/or VHB type adhesive.

2. Refer to fixture-cable dimensions to determine bend radius of feed Cable.

3. Install illuminator in vented location within 30 feet of illuminated panel.

# Stair Riser Lighting Installation

Concealed Conduits
To Illuminator

**Plan**
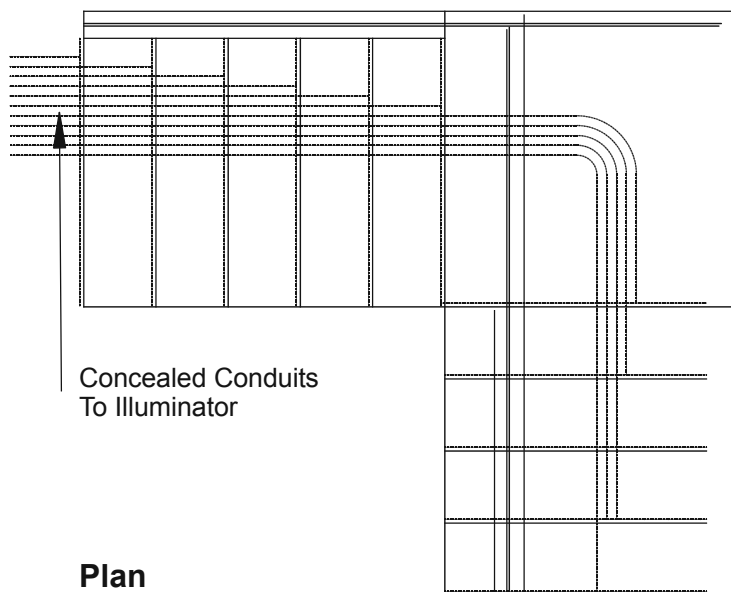
NOTES:

1. Attach fixtures with high performance silicone adhesive (GE IS808) or equivalent.

2. Install illuminator in ventilated location, within 30 feet of stairway.

3. All conduit bends to be sweep type fittings.

Conduit Penetration Flush With
Concrete Tread In Bedding Layer

Decorative Stone Facing With
Slotted Recess For Fixture

LightBeam Fixture

Nonmetallic Rigid Conduit
(Typical all risers)
See Note 3.

**Elevation (Section)**

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# Cove Lighting Installation

### Cove Installation - Cove Glow Illumination
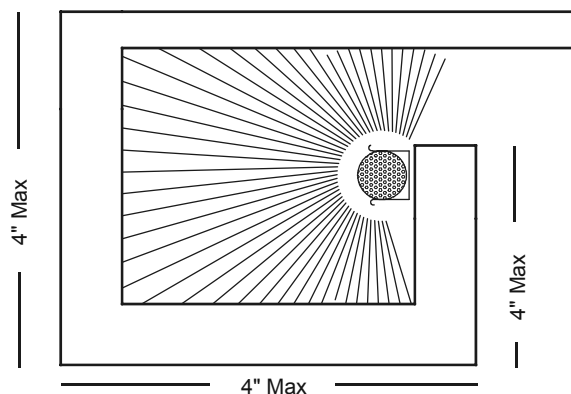
### Cove Installation - Ceiling Glow Illumination
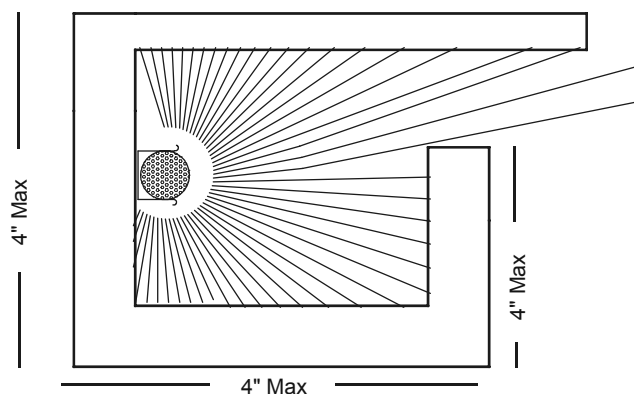
Secure track or mounting clips to cove wall with screws (maintain height below viewing angle). Snap BritePak-III® fiber optic cable into track, or LightBeam™ to the mounting clips. Run fiber optic cable ends to illuminator.

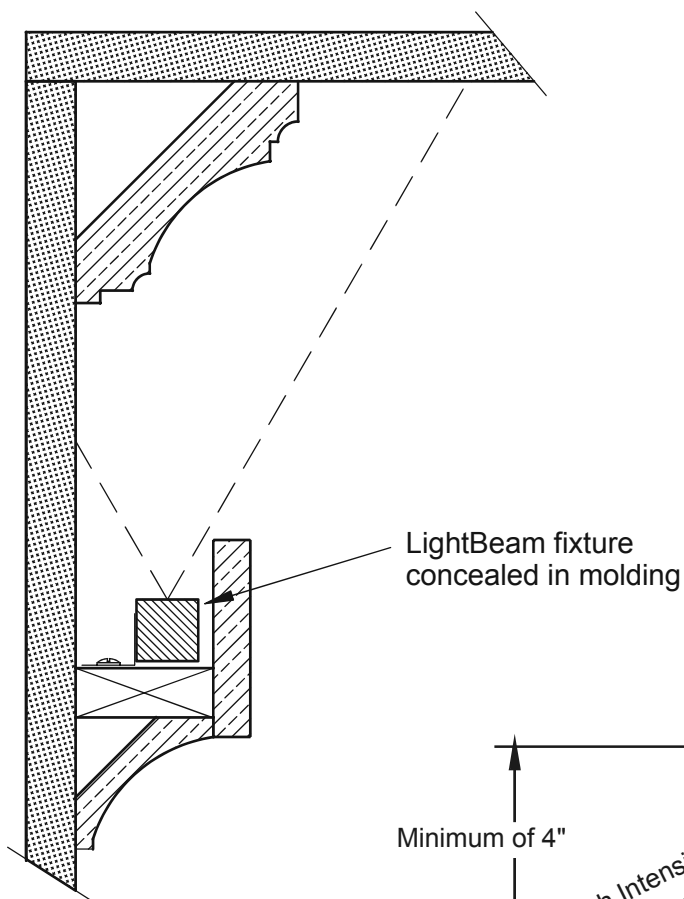## *Note: When used in a cove, fiber optics will enhance an architectural detail but will not illuminate a room.*

### Guidelines for using BritePak® in a cove

1. Runs should not exceed 50' between illuminators.
2. Cove interior should be painted gloss white for the best reflective value.
3. Fiber should be installed as high in cove as possible without being seen from viewing area.
4. Installing two runs of fiber optic cable side by side will increase light output.
5. This option is only recommended in low ambient light conditions to create a "glow" in small dimensioned coves.

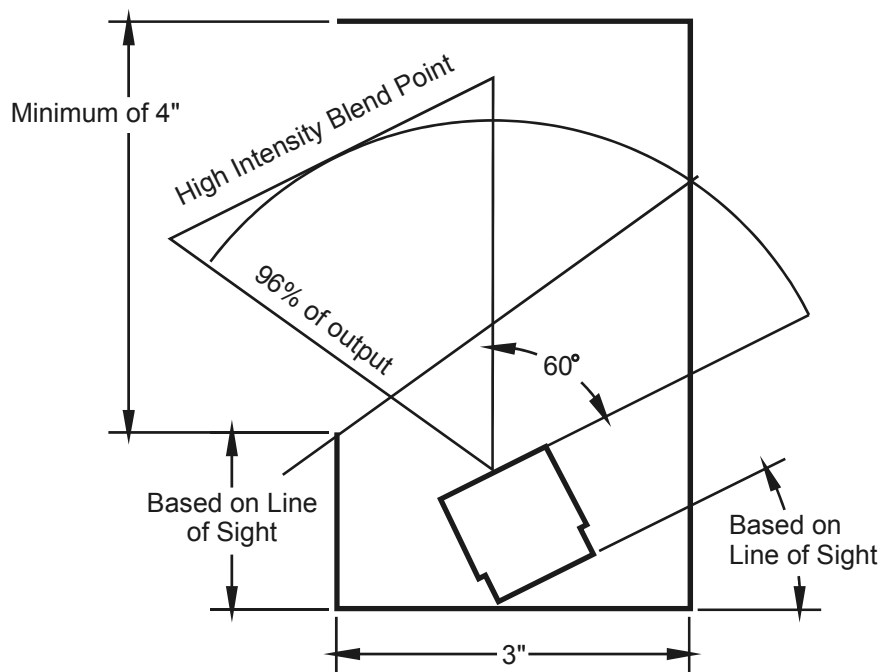### Guidelines for using LightBeam™ in a cove

1. The first reflective surface should be 4" from the lighted face of a high intensity LightBeam.
2. The first reflective surface should be 6" from the lighted face of a medium intensity LightBeam.
3. Attach LightBeam fixtures with optional brackets and wood screws.
4. Install illuminator in ventilated location, within 30 feet of fixture.
5. Recommended for use in small and medium coves.

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# Cove Lighting Installation (continued)

NOTES:

1. Attach LightBeam fixtures with optional brackets and wood screws.

2. Install illuminator in ventilated location, within 30 feet of fixture.

LightBeam fixture concealed in molding

Minimum of 4"

High Intensity Blend Point

96% of output

60°

Based on Line of Sight

Based on Line of Sight

3"

The first reflective surface should be:
4" from the lighted face of a high Intensity LB
6" from the lighted face of a medium Intensity LB

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# Star Ceiling Applications

The "Star Ceiling" effect is a frequently requested Fiberstars application. There are too many factors that rely on personal aesthetic choices to give an exact formula for every application. That is why we have created three different "Star Ceiling Kits." **Star Ceiling Kit A** (300 stars) will cover an area from 30 to 140 sq ft depending on star density with a sparkle wheel effect; **Star Ceiling Kit B** (500 stars) will do the same, but also includes a "shooting star" effect, and **Star Ceiling Kit C** (800 stars) will cover larger ceilings, from 100 to 400 sq ft, also with a "shooting star" effect (see spec sheets for details). General guidelines as follows :

## How to Achieve the Effect

The "stars" are created by using individual strands of various sizes of multi-strand fiber in our STAR34/50 cable. These strands are threaded through the ceiling material to produce tiny bright points of lights. The fibers are then glued (with #FS-115 epoxy or FS-136 silicone) into place from the concealed side of the ceiling.

## Star Size and Saturation

• Small = .75 mm fiber
• Medium = 1.0 mm fiber
• Large = 1.5 mm fiber
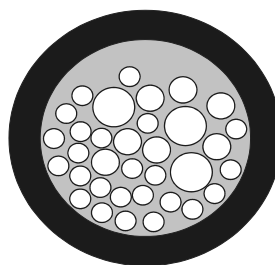• 1 - 6 "stars" per square foot (depending on the effect desired)

## Special Effects

• A sparkle wheel is included in each kit's illuminator.
• Star Ceilings Kits B & C also include a "shooting star" effect.

## Notes

• For custom star and effect ceilings contact our D/E/Q department at 1-877-777-7389.
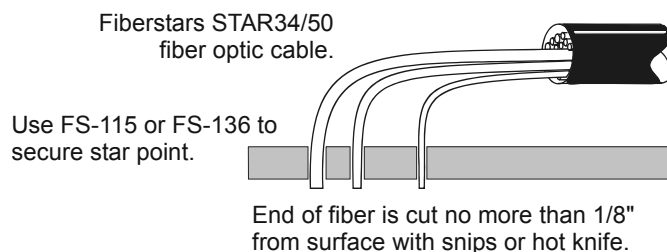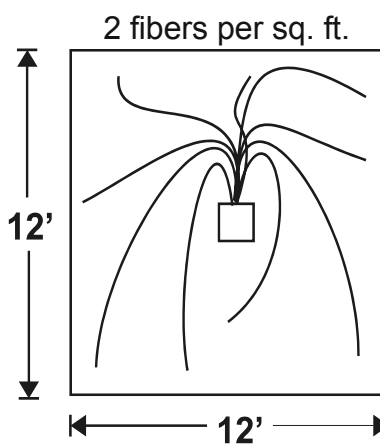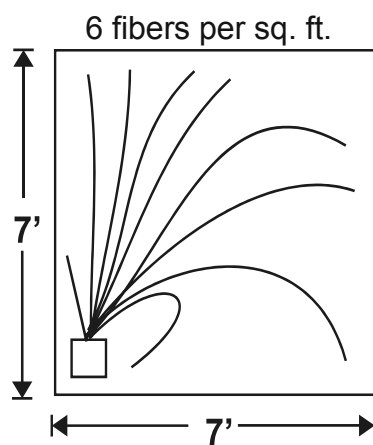
## STAR 34/50

**STAR34/50 contains:**

24 - .75mm strands

7 - 1.0mm strands

3 - 1.5mm strands

## Detail

Fiberstars STAR34/50 fiber optic cable.

Use FS-115 or FS-136 to secure star point.

End of fiber is cut no more than 1/8" from surface with snips or hot knife.

## Plan View
### Star Kit A

6 fibers per sq. ft.

7'

7'

2 fibers per sq. ft.

12'

12'

## Specification Registration

**Submitted by (Name/Agency)** _____

**Project Name** _____

**Project Address** _____

**City/State/Zip** _____

**Phone #** _____

## Specification Location

**Contact/Title** _____

**Architect** _____

**Engineer** _____

**Lighting Designer** _____

## Purchasing Location

**Distributor** _____

## Shipping Location

**Ship To Location** _____

**Contractor** _____

## Primary Bill of Materials

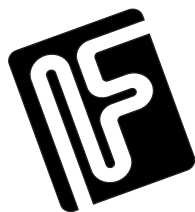| Quantity | Part Number | Description |
|----------|-------------|-------------|
|          |             |             |
|          |             |             |
|          |             |             |
|          |             |             |

**Approx. Date Specs will be out** _____  **Approx. Bid Date** _____

**Approx. Shipping Date** _____  **Approx. Project Completion Date** _____

**Please Check One:**  ☐ **One Time Job**   ☐ **Permanent Specification**   ☐ **National Account**

*Important: Specification credit will be allowed only if specification registration is received by Fiberstars, Inc. prior to our receipt of release for shipment.*

| FACTORY USE ONLY | | | | | |
|---|---|---|---|---|---|
| **Spec Rep #** | | **Copies to** | | **Date Received** | |
| **Order Rep #** | | **Recorded by** | | **Date** | |
| **Ship Rep #** | | **Confirmations sent** | | **Date** | |

# FIBERSTARS®

## Fiber Optic Technology in Lighting™