



## ■ SIGN

Beta Lighting Sign luminaires provide illumination on conventional highway signs and billboards with minimal spill light. This section includes details of each luminaire including housing size, lamp position, optical description, lamp selection, voltage, finishes, options and accessories.



# SECTION CONTENTS

## PAGE CONTENTS

**378-379** Optical Distributions

**380-381** Key Features and Benefits and Master Nomenclature

|   | <b>Max<br/>Wattage</b> | <b>Lamp<br/>Position</b> | <b>Catalog<br/>Prefix</b> |
|---|------------------------|--------------------------|---------------------------|
| <b>382-383</b> 12" Square Sign Light –<br>Forward Throw | 175W                   | Horizontal               | BSL-S12-H-FT              |
| <b>384-385</b> 16" Square Sign Light –<br>Forward Throw | 400W                   | Horizontal               | BSL-S16-H-FT              |
| <b>386</b> Sign – Mounting Options and Accessories      |                        |                          |                           |



Square



### ■ H-FT Forward Throw

Horizontal lamp position



This specular reflector features a clear, tempered glass lens. It provides a 67-degree main beam and exceptional lateral distribution to provide excellent uniformities from top to bottom and left to right. These luminaires are ideal for sign lighting and ground-mounted displays needing vertical illumination.



## KEY FEATURES AND BENEFITS

### Optical Systems

- Computer-designed reflectors engineered for maximum performance and control
- Reflector systems make use of the latest high-efficiency materials to further optimize lighting results

### Lamp

- HID lamp included

### Housing and Door Frame

- Die-cast aluminum housing
- Internal ribbing structure to prevent any wall distortion or sagging
- Aluminum die-cast door frame with stainless-steel captive fasteners
- High-impact, strength-tempered glass lens
- No-leak silicone gasket to assure a lifetime seal

### Electrical

- High power factor ballasts are standard
- Ballast and other electrical components are strategically located and heat sunk to the aluminum housing for maximum longevity
- Electrical characteristics of every luminaire are tested prior to packing and shipping

### Finish

- Exclusive Colorfast DeltaGuard™ finish with 7-year warranty
- E-coat epoxy primer
- Ultra-durable powder topcoat
- Excellent resistance to corrosion, ultraviolet degradation and abrasion

### Labels

- UL Listed for wet locations
- ANSI lamp wattage label supplied
- Enclosure rated IP65

Sign Lighting Fixtures  
**BSL Series**

See following pages for specific product availability.

**ORDER CODE LOGIC**

| <b>BSL</b>     | <b>S12</b>   | <b>H</b>              | <b>FT</b>                 | <b>F2</b>  | <b>250 MHX</b>   | <b>MT</b>   | <b>BZ</b>   | <b>Q</b>   |
|----------------|--|-----------------------|---------------------------|--|--|---|---|--|
| Product Family | Housing Indicator                                  | Lamp Position         | Beam Distribution         | Mounting Options   | Lamp Selections  | Ballast Voltage   | Color Options   |  |
| <b>BSL</b>     | <b>S12</b> = 12" Square<br><b>S16</b> = 16" Square | <b>H</b> = Horizontal | <b>FT</b> = Forward Throw | <b>F2</b> = 2" Adjustable Fitter<br><b>YM</b> = Yoke Mount | <b>035 HPS</b><br><b>050 PMH/HPS</b><br><b>070 PMH/HPS</b><br><b>100 PMH/HPS</b><br><b>125 PMH</b><br><b>150 PMH/HPS</b><br><b>175 MHX</b><br><b>200 PMH</b><br><b>250 PMH/MHX/HPS</b><br><b>320 PMH</b><br><b>350 PMH</b><br><b>400 PMH/MHX/HPS</b> | <b>MT</b> = Multi-tap<br><b>DT</b> = Dual-Tap<br><b>12</b> = 120 Volt<br><b>20</b> = 208 Volt<br><b>24</b> = 240 Volt<br><b>27</b> = 277 Volt<br><br><b>34</b> = 347 Volt<br><b>(Canada)</b><br><br><b>48</b> = 480 Volt<br><br><b>5_</b> = 50 Hz<br><b>(International)</b> | <b>BZ</b> = Bronze<br><b>BK</b> = Black<br><b>WH</b> = White<br><b>PB</b> = Platinum Bronze<br><b>SV</b> = Silver |  |
|                |  |                       |                           |  |  |   |   | <b>Fixture Options (Factory Installed)</b><br><br><b>F</b> = Fuse<br><b>P</b> = Photocell<br><b>Q</b> = Quartz Standby |

**Accessories (Field Installed)**

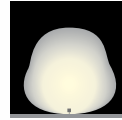
- PC** = Button Photocell
- GS** = Glare Shield
- FWG** = Wire Guard

Lamp Abbreviations: **MHX** = Metal Halide, **HPS** = High Pressure Sodium, **PMH** = Pulse Start Metal Halide  
**A 5\_** indicates a 50 Hertz ballast. See page 11 for the second number designator to specify voltage required. The table above is for reference only – see specific product pages for actual ordering options.



**Horizontal Lamp  
H-FT**

**Optical System  
Forward Throw**



This specular reflector features a clear, tempered glass lens. It provides a 67-degree main beam and exceptional lateral distribution to provide excellent uniformities from top to bottom and left to right.

**Lamp**

- Maximum wattage:  
150W PSMH, 175W MH,  
150W HPS
- Medium base HID lamp included

**Housing and Door Frame**

- Low copper die-cast aluminum upright door frame
- Tempered glass lens for maximum impact resistance

**Electrical**

- High power factor ballasts are standard

**Finish**

- Exclusive Colorfast DeltaGuard™ finish with 7-year warranty

**Labels**

- UL Listed for wet locations
- ANSI lamp wattage label supplied
- IP65 Rating



**AVAILABLE FINISH COLORS:**



**BZ**  
Bronze

Standard Color



**BK**  
Black

Available Color  
No Additional Cost



**WH**  
White



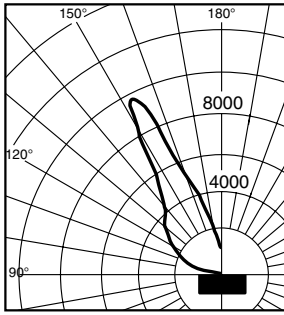
**PB**  
Platinum  
Bronze

Optional Color  
Up Charge Applies

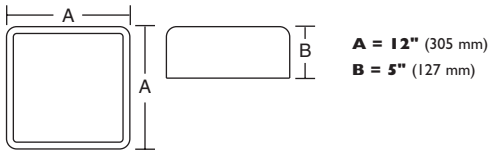


**SV**  
Silver





Candlepower distribution curve for 175W MH.



See page 381 for order code logic.

## 12" SQUARE SIGN LIGHT (Example: BSL-S12-H-FT-F2-070PMH-DT-BZ)

| Product Family | Housing Indicator | Lamp Position | Optical Distribution | Mounting Options       | Lamp Selection  | Ballast Voltage                                    | Color Options              | Options (Factory Installed) |
|----------------|-------------------|---------------|----------------------|------------------------|---|--|----------------------------|-----------------------------|
| <b>BSL</b>     | <b>S12</b>        | <b>H</b>      | <b>FT</b>            | <b>F2</b><br><b>YM</b> | 035 HPS<br>050 PMH/HPS<br>070 PMH/HPS<br>100 PMH/HPS<br>125 PMH<br>150 PMH/HPS<br>175 MHX | MT<br>DT<br>12<br>20<br>24<br>27<br>34<br>48<br>5_ | BZ<br>BK<br>WH<br>PB<br>SV | F<br>P<br>Q                 |

Formerly BJE

### Mounting Footnotes – see page 386 for details

- F2 = 2" Adjustable fitter
- YM = Yoke Mount
- Fixture for use as uplight only – Not for use in downlight applications

### Ballast & Lamp Footnotes

- 50W, 70W, 100W & 125W PMH and 50W HPS are standard with dual-tap (DT) ballast
- 150W PMH, 175W MHX and 70W, 100W & 150W HPS are standard with multi-tap (MT) ballast
- 35W HPS is standard with 120V ballast
- 480V ballast available for 175W MHX and 70W, 100W & 150W HPS
- International 50 Hertz ballasts available; see page 11 for specification information

### Option Footnotes

- F (Fuse) – Must specify voltage other than MT or DT
- P (Photocell) – Must specify voltage other than MT or DT  
2" Adjustable fitter (F2) mounting – photocell is field installed; order as accessory  
All 480V fixtures are supplied with factory-installed external photocell regardless of mounting – order as option "P"
- Q (Quartz Standby) – Delay-relay type and includes 100W T4 dual-contact quartz lamp (not available with 277V reactor ballast)

## Accessories (Field Installed)

See page 386 for details



**GS-12**  
Glare Shield



**FWG-12**  
Wire Guard

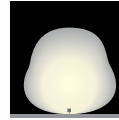
**Horizontal Lamp  
H-FT**



**Optical System  
Forward Throw**



This specular reflector features a clear, tempered glass lens. It provides a 67-degree main beam and exceptional lateral distribution to provide excellent uniformities from top to bottom and left to right.



**Lamp**

- Maximum wattage: 400W PSMH, 400W MH, 400W HPS
- Mogul base HID lamp included

**Housing and Door Frame**

- Low copper die-cast aluminum upright door frame
- Tempered glass lens for maximum impact resistance

**Electrical**

- High power factor ballasts are standard

**Finish**

- Exclusive Colorfast DeltaGuard™ finish with 7-year warranty

**Labels**

- UL Listed for wet locations
- ANSI lamp wattage label supplied
- IP65 Rating



**AVAILABLE FINISH COLORS:**



**BZ**  
Bronze

Standard Color



**BK**  
Black

Available Color  
No Additional Cost



**WH**  
White



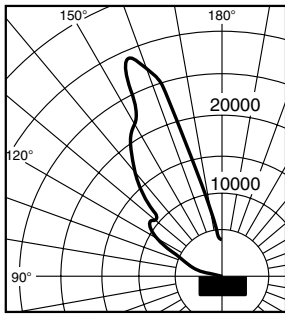
**PB**  
Platinum  
Bronze

Optional Color  
Up Charge Applies

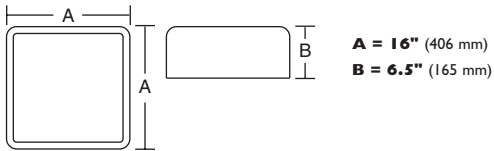


**SV**  
Silver





Candlepower distribution curve for 400W MH.



See page 381 for order code logic.

## 16" SQUARE SIGN LIGHT (Example: BSL-S16-H-FT-F2-400PMH-MT-BZ)

| Product Family | Housing Indicator | Lamp Position | Optical Distribution | Mounting Options | Lamp Selection  | Ballast Voltage | Color Options | Options (Factory Installed) |
|----------------|-------------------|---------------|----------------------|------------------|-----------------|-----------------|---------------|-----------------------------|
| BSL            | S16               | H             | FT                   | F2<br>YM         | 200 PMH         | MT              | BZ            | F                           |
|                |                   |               |                      |                  | 250 PMH/MHX/HPS | 12              | BK            | P                           |
|                |                   |               |                      |                  | 320 PMH         | 20              | WH            | Q                           |
|                |                   |               |                      |                  | 350 PMH         | 24              | PB            |                             |
|                |                   |               |                      |                  | 400 PMH/MHX/HPS | 27              | SV            |                             |
|                |                   |               |                      |                  |                 | 34              |               |                             |
|                |                   |               |                      |                  |                 | 48              |               |                             |
|                |                   |               |                      |                  |                 | 5_              |               |                             |

Formerly BJC

### Mounting Footnotes – see page 386 for details

- F2 = 2" Adjustable fitter
- YM = Yoke Mount
- Fixture for use as uplight only – Not for use in downlight applications

### Ballast & Lamp Footnotes

- All fixtures are standard with multi-tap (MT) ballast
- All fixtures available with 480 volt ballast
- International 50 Hertz ballasts available; see page 11 for specification information

### Option Footnotes

- F (Fuse) – Must specify voltage other than MT
- P (Photocell) – Must specify voltage other than MT  
2" Adjustable fitter (F2) mounting – photocell is field installed; order as accessory  
All 480V fixtures are supplied with factory-installed external photocell regardless of mounting – order as option "P"
- Q (Quartz Standby) – Delay-relay type and includes 100WT4 dual-contact quartz lamp (not available with 277V reactor ballast)

## Accessories (Field Installed)

See page 386 for details



GS-16  
Glare Shield



FWG-16  
Wire Guard

## SIGN – MOUNTING OPTIONS



### 2" Adjustable Fitter

Mounting Code:

**F2**

- Slip fits over 2" pole or tenon (2-3/8" O.D.)
- Provides enclosed and gasketed internal wiring chamber
- Knockout provided for field-installed photocell accessory



### Yoke Mount

Mounting Code:

**YM**

- Ideal for wall, ground, roof or wood pole mounting
- Bolts directly to almost any surface
- Provided with 36" external cord for ease of wiring

## FIXTURE ACCESSORIES (FIELD INSTALLED)



### Wire Guard

Catalog Number:

**FWG-12** (12" Square)

**FWG-16** (16" Square)

- Steel guard protects lens and optical system
- Attaches easily to pre-drilled lens frame with supplied fasteners
- Finished in acrylic black E-coat paint
- 1" space between wires



### Glare Shield

Catalog Number:

**GS-12** (12" Square) (4" deep)

**GS-16** (16" Square) (5" deep)

- Aluminum shield reduces glare for pedestrian and vehicular traffic
- Attaches easily to pre-drilled lens frame with supplied fasteners
- Finished with ultra-durable black powder coat finish



### Button Photocell

Catalog Number:

**PC**

- A knockout is standard in the 2" Adjustable Fitter (F2) to field-install the button-type photocell
- Controls night and day on/off operation

