



# LED Square Flat Bollards

**L70**  
25°C **147,000 Hours**



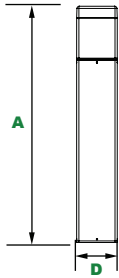
**IES Type III & V Glass NHL-SBFB**



**LED Cone Reflector NHL-SBFC**



**Square Louvers NHL-SBFIL**



### Dimensions

<b>Length (D)</b>	7" (177mm)
<b>Height (A)</b>	41 1/8" (1,051mm)

The Square Flat LED Bollards with choice of optics are designed to replace HID lighting systems up to 70w MH or HPS. These fixtures are ideal for retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities.

### Specifications and Features:

#### Housing:

Extruded Aluminum Housing with Flush Mounting Base & Vandal-Resistant Screws, Flat Top, Internal Ballast Tray for Easy Maintenance. Bollards Can Be Cut to Custom Lengths Upon Request.

#### Listing & Ratings:

CSA: Listed for Wet Locations, ANSI/UL 1598, 8750  
IP65 Sealed LED Compartment.

#### Finish:

Textured Architectural Bronze or Black Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

#### Style:

IES Type III or V Clear Prismatic Borosilicate Glass Refractor, Specially Designed Aluminum Cone Reflector or Internal Louvers

#### Lens:

Clear Polycarbonate Vandal-Resistant Lens

#### Mounting Options:

Mounting Kit with 8" Anchor Bolts, Included.

#### LED:

Aluminum Boards

#### Wattage:

Array: 14.5w, System: 17w (70w HID Equivalent)

#### Driver:

Electronic Driver, 120-277V, 50/60Hz or 347V, 50/60Hz; Less Than 20% THD and PF>0.90. Standard Internal Surge Protection 2kV. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

#### Warranty:

5-Year Warranty for -40°C to +40°C Environment.

See Page 2 for Projected Lumen Maintenance Table.

### Order Information Example:

**NHL-SBFP-15W-50K-UNV-Z-36-SF**

Model	Optics	Wattage	CCT	Driver	Color	Height	Options
		<b>1x15</b>					
<b>NHL-SBFP</b> =Square Flat Bollard with Glass Lens <b>NHL-SBFC</b> =Square Flat Bollard with LED Cone Reflector <b>NHL-SBFIL</b> =Square Flat Bollard with Square Louvers	<b>C</b> =Type III* <b>F</b> =Wide Beam Spread  *NHL-SBFIL Only	<b>15W</b> =1x15w	<b>30K</b> =3000K <b>40K</b> =4000K <b>50K</b> =5000K	<b>UNV</b> =120-277V  <b>C</b> =347V	<b>Z</b> =Bronze <b>B</b> =Black <b>CC</b> =Custom (Consult Factory)	<b>(Leave Blank)</b> =42" Standard Height <b>36</b> =36" Height <b>30</b> =30" Height	<b>SF</b> =Single Fuse <b>DF</b> =Double Fuse <b>SP</b> =Surge Protection <b>GF1</b> =GFCI Outlet, 15A, 120V <b>BU</b> =Battery Backup, 90 Minutes

### Project Information:

Project Name: \_\_\_\_\_ Fixture Type: \_\_\_\_\_

Complete Catalog #: \_\_\_\_\_ Date: \_\_\_\_\_

Comments: \_\_\_\_\_

### Certification & Listings:



Specifications subject to change without notice. Rev. 043018

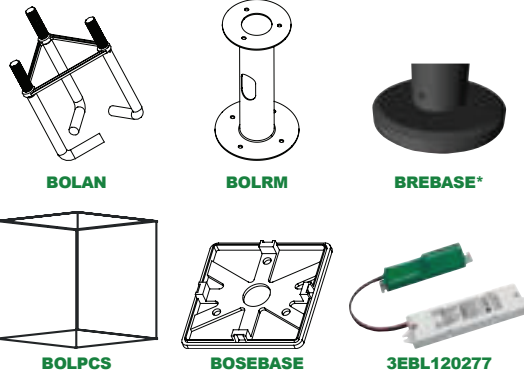
### New Horizon Lighting

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New Horizon Lighting products reduce operating costs while delivering high efficiency lighting. NHL products are built in the USA and are available or through leading national distributors.

## Accessories & Replacement Parts:



\*Shown Mounted

### Mounting Accessories (Order separately, Field installed)

BOLAN4	Mounting Kit, Includes Bracket & Three (3) 4" Anchor Bolts
BOLAN8	Mounting Kit, Includes Bracket & Three (3) 8" Anchor Bolts
BOLAN12	Mounting Kit, Includes Bracket & Three (3) 12" Anchor Bolts
BOLAN15	Mounting Kit, Includes Bracket & Three (3) 15" Anchor Bolts
BOLRM	Root Mount Kit

**BREBASE\*** Bollard Retrofit Base Kit Adapts New Bollards to Most Existing Bolt Patterns. Fits all Eco-Revolution Bollards. Die Cast with Powdercoat Finish, Hardware Included. 1 1/2" Dia. x 1 1/2" H

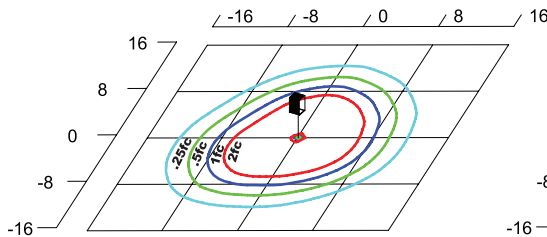
\*Specify Color: Z=Bronze, B=Black, C=Custom (Consult Factory)

### Replacement Parts (Order separately, Field installed)

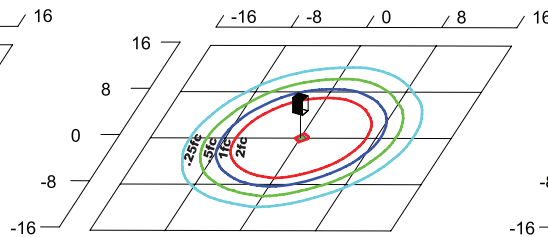
BOLPCS	Replacement Square Polycarbonate Vandal-Resistant Lens
BOSBASE*	Die Cast Base Plate with Powdercoat Finish Over a Chromate Conversion Coating.
3EBL120277	Battery Backup, Provides 90 Minutes of Backup Power.

\*Specify Color: Z=Bronze, B=Black

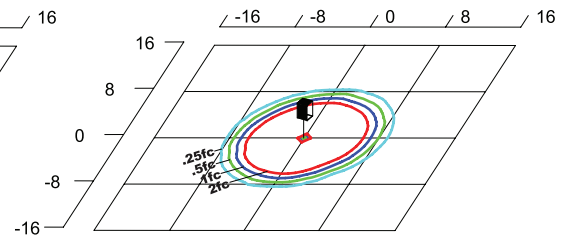
## Photometric Data



**NHL-SBFP-15W-50K-UNV** Grid in feet, Mounting Height = 3.5 ft. Type V



**NHL-SBFC-15W-50K-UNV** Grid in feet, Mounting Height = 3.5 ft. Type V



**NHL-SBFIL-15W-50K-UNV** Grid in feet, Mounting Height = 3.5 ft. Type V

## Photometric Performance

LED Board Watts	Drive Current (mA)	Input Watts	Optics	5000 CCT 80 CRI					4000 CCT 80 CRI					3000 CCT 80 CRI				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
LED 15w	116	17	NHL-SBFP-Type III Glass	1,152	68	1	3	1	1,106	65	1	3	1	1,018	60	1	3	1
			NHL-SBFC- Cone Reflector	1,519	89	1	3	1	1,458	86	1	3	1	1,225	72	1	3	1
			NHL-SBFILType III Optic	1,081	64	0	3	1	989	58	0	2	1	918	54	0	2	1

## Projected Lumen Maintenance

Data shown for 5000 CCT				Compare to MH			
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 25°C	
L70 Lumen Maintenance @ 25°C / 77°F	17	1.00	0.95	0.90	0.80	147,000	
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 50°C	
L70 Lumen Maintenance @ 50°C / 122°F	17	1.00	0.89	0.78	0.55	67,000	
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L80@ 40°C	
L80 Lumen Maintenance @ 40°C / 104°F	17	1.00	0.92	0.85	0.70	66,000	

### NOTES:

1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 116mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
2. Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.