

XHYP3 Specification Grade LED Bollard



Marketing Positioning Statement

The XHYP3 is a specification-grade bollard that features a revolutionary high performance patent-pending Dual Beam LED optical system with state-of-the-art driver technology for unsurpassed system efficiency, control and protection. Two separate LED arrays result in superior fixture spacing and unmatched lighting uniformity for enhanced security and improved way finding, particularly in transitional areas between outdoor and indoor lighting systems. Virtually maintenance free and highly vandal resistant, the XHYP3 has a life expectancy of up to 100,000 hours.

Crossover
GENERATION 3

Leading Selling Features

- ☐ SmartTec™ Control Technology – “Industry First”
- ☐ Extremely Durable Vandal Resistant Design
- ☐ Low Total Cost of Ownership
- ☐ Outstanding Uniformity & Visual Comfort
- ☐ Leading Selection of Light Output Options
- ☐ Exceptional Reliability in an LED Bollard



SmartTec Control Technology - "Industry First"

Optional Internal Motion Sensor

Doppler motion sensor activates switching of luminaire light levels
High light level activated in 2-3 seconds when passerby enters target zones
Low light level (30% of maximum drive current) activated in absence of motion for 4 minutes
Ramping down of light occurs over 7 seconds
Sensor detection range is 360° horizontal at an average of 25-30 ft.

Optional Photocontrol

Button type
Activates when ambient light falls to 1.5fc
Fixture turns off when ambient light level reaches 7.5fc

Extremely Durable Vandal Resistant Design

Vandal Resistant Design

One-piece, heavy-walled extruded aluminum, .322" thick for vandal resistance
Extra thick, 1/2" cast T6 treated aluminum base plate is chromate coated and black powder coated for corrosion resistance
Four .250 diameter stainless steel roll pins attach lower housing to base plate
Flat or domed heavy cast aluminum crown assembly
Crown attaches to lower housing with four, captive concealed Allen-head screws
Lenses protected by three cast ribs



Roughneck Reinforcement Option

Ideal for school applications where extra strength requirements are desired
Heavy duty, .375 thick steel base plate with welded U shaped reinforcement for added strength
Bright zinc plated assembly
3/8" diameter 302 stainless steel roll pins with 10,000 lb. shear load



Heavy Duty Anchor Bolts

3/8" x 10" long heavy duty galvanized steel
Four (4) furnished

Low Total Cost of Ownership

Annual Energy & Maintenance Savings

\$1,506.35 savings for (20) XHYP3 LED fixtures replacing (20) 100W MH
Based upon 12 hour daily operation at \$.10 kWh

Outstanding Uniformity & Visual Comfort

Lens Two 1-piece heavy walled clear borosilicate lenses
Recessed .764" and protected by three cast ribs
Exposed portion of top lens is only .934" tall
Lower lens is only 1.831" tall

Lumen Output Lumen output choice of 856 or 1599 lumens for neutral white LEDs
Lumen output choice of 950 or 1690 for cool white LEDs
Provides a choice of lumen outputs for the customer's specific requirements

LIGHT OUTPUT - XHYP						
Description		# of LEDs	Full Output		Low Output	
			Lumens	Watts	Lumens	Watts
Cool White	XHYP3-360	30	1690	34	692	12
	XHYP3-180	16	950	20	401	7
	XHYP3-360-30-BB	10	748	20	—	—
Neutral White	XHYP3-360	30	1599	34	—	—
	XHYP3-180	16	856	20	—	—
	XHYP3-360-30-BB	10	—	—	—	—
350mA - Standard						

Leading Selection of Light Output Options

Light Distribution Patterns 180° (16 LEDs) or 360° (30 LEDs) distribution available
Independently aimed optics
Provides standard light distribution patterns for typical layouts
Flexible distribution patterns for whatever your customer requires
Exceptional uniformity creates bright environment at lower light levels
Application department staff available to determine best distribution pattern

Dual Beam Optics Utilizes two separate LED arrays to provide more uniform illumination – proprietary to LSI
Upper aperture directs light to distant zones
Lower aperture directs light to zones closest to fixture
Results in superior fixture spacing while providing great uniformity



16 or 30 LED Array 16 LED array for lower desired energy usage (20 watts)
30 LED array for greater light output (34 watts)
Enclosed in optical chamber designed to IP65 standards

CRI (Color Rendering Index) CRI of 70 facilitates recognition of specific colors
Meets industry standards

Color Temperature Available in cool white or neutral white color temperature
Sell cool white for a cooler color temperature
Sell neutral white for a warmer color temperature

Temperature Range Suitable for use in a wide range of ambient temperatures
-40°C to +50°C (-40°F to 122°F)
Life expectation remains constant through the rated range

Drive Current 350mA standard

Input Voltage Universal voltage 120V thru 277V (50/60hz input), 347V and 480V also available

Exceptional Reliability in an LED Bollard



Environmentally Responsible

With exceptional “green” technology, luminaire is RoHS/WEEE compliant

Greater than 80% recyclable by weight

Housing

One-piece, heavy-walled extruded aluminum

Various heights available

6" increments starting at 30" (maximum height is 60")

Crown Assembly

Flat or domed, heavy cast aluminum

Simple/Fast Installation

Simply connect supply leads at base and mount luminaire to base plate with (4) drive pins

Pressure Stabilizing Vent/Breather

Equalizes pressure in optical unit preventing pressure buildup due to ambient temperature changes, protecting gaskets and seals over the life of the fixture

Finish

DuraGrip[®] polyester powder coat finish

Resists corrosion and is scratch and ding resistant

Withstands extreme weather changes without cracking or peeling

Exhibits excellent durability and resistance to ultraviolet rays which could damage bollards

Long-life

Up to 100,000 hours of expected life, equates to 11.4 years when burning 24/7

Equal to or exceeds the expected life of competitive LED bollards

Virtually maintenance free once installed

Surge Protector

Meets IEEE C62.41.2-2002, Scenario 1, Location Category C

Prevents damage to fixture due to unexpected surge or swell in AC line voltage

Warranty

Limited 5 year warranty

Emergency Options

Integral emergency battery back-up options

Battery back-up operates in 0°C to 60°C ambient temperature

Cold weather battery back-up operates in -20°C to 60°C

Both options operate 10 LEDs in upper array for a minimum of 90 minutes

Exceeds NFPA-life safety code requirements for means of egress lighting



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