INCON LIGHTING
BUY AMERICAN COMPLIANT

7001CB

LumaCrete Q3D Concrete Printed Bollards

7001CBRBKSHLQ
Round Concrete Printed Bollard with Black Stain and Round Dome Bollard with Louvers

7001CBTBZSH1Q
Twist Concrete Printed Bollard with Bronze Stain and Round Beveled Flat Bollard with Louvers

7001CBFRBZSHRLQGSZ
Flair Rope Concrete Printed Bollard with Bronze Stain and Round Beveled Flat Bollard with LED Cone Reflector

The LumaCrete Q3D Printed Concrete Bollards family consists of four unique, durable concrete form designs in a choice of four colors and ten luminaire head selections. Heads are available in a variety of semi-cutoff and luminous white lens options. LED technology provides controlled optical performance and high energy efficiency. The concrete body provides long term durability and vandal resistance. 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:
Concrete Bollard Shaft: The concrete shaft is 3D printed using high strength modified cement based micro concrete with selected aggregates and additives utilizing unique continuous layers for a unique design appearance.
Bollard Luminaire Heads: Cast Aluminum Housing with Flush Mounting Base & Vandal-Resistant Screws, Internal Driver Tray for Easy Maintenance.

Listing & Ratings:
ETL: Listed for Wet Locations, ANSI/UL 1598, 8750; IP65 (H1, HB1, & HB10) & IP66 (Legacy Bollards) Sealed LED Compartment.

Finish:
Textured Architectural Bronze or Black Powdercoat Finish Over a Chromate Conversion Coating for Bollard Heads, Exterior Concrete Stains For Shaft. Custom Colors Available Upon Request.

Style:
Clear Prismatic Borosilicate Glass Refractor, Specially Designed Cone Reflector or Internal Louvers

Lens:
Clear UV-Stabilized Polycarbonate Vandal-Resistant Lens or SoftLED LumaLens UV-Stabilized Polycarbonate Opal Vandal-Resistant Lens.

Mounting Options:
Steel ½″ Base Plate With ½″x 12″ Galvanized Steel Anchor Bolts.

EasyLED LED:
Aluminum Boards

Driver:
Electronic Driver, 120-277V, 50/60Hz or 347V, 50/60Hz (15w Only); 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 6 for Projected Lumen Maintenance Table.

Project Information:

Project Name: | Fixture Type:

Complete Catalog #: | Date:

Comments:

Certification & Listings:

ETL LISTED C US

IP66 H1Q, H1BQ H10BQ

IP65 Legacy Bollards

SoftLED

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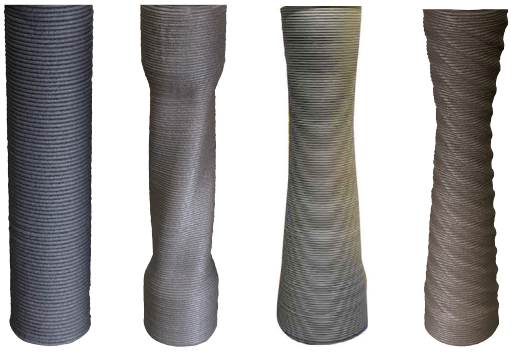
Concrete Form Selection



Round | Twist | Flare | Flare Rope

Bollard Head Selection

H1 | H1B | H10B | HRW | HRL | HG

HL | HFRW | HFRL | HFG | HFL

Order Information Example: 7001CBFRBZSHRLQGSZ

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Model	**Concrete Form**	**Concrete Color**	**Bollard Head**	**Optics**	**Wattage**	**Driver**	**CCT**	**Lens**	**Head Finish**	**Options**
7001CB = Concrete Printed Bollard 7" O.D.	**R**=Round **T**=Twist **F**=Flare **FR**=Flare Rope	**BZS**=Bronze Concrete Stain **BKS**=Black Concrete Stain **SVS**=Silver Concrete Stain **WHS**=White Concrete Stain	**H1**=Round Flat Beveled **H1B**=Round Dome Beveled	**F**=Type V	**1X16**=16w **1X23**=23w **1X34**=34w	**U**=120-277V	**3K**=3000K **4K**=4000K **5K**=5000K	**C**=Clear Lens **L**=SoftLED LumaLens Opal UV-Stabilized Polycarbonate Array Lens* ***Type V Only**	**Z**=Bronze **B**=Black **C**=Custom (Consult Factory)	**SF**=Single Fuse **DF**=Double Fuse **SP**=Surge Protection **GSZ**=180° Glare Shield, Bronze **GSC**=180° Glare Shield, Custom Color (Consult Factory)* ***Not available for H1, H1B, and H10B Bollard Heads** **Note: Consult Factory for Anti-Graffiti Finish**
			H10B=Lighthouse Bollard	**F**=Type V	**1X10**=10w **1X19**=19w **1X28**=28w					
			HRW=Round Dome Legacy Bollard White Cone Reflector **HRL**=Round Dome Legacy Bollard with LED Cone Reflector **HG**=Round Dome Legacy Bollard with Glass **HL**=Round Dome Legacy Bollard with Louvers	**C**=Type III* **F**=Type V ***Not available on HL Head**	**1X10**=10w **1X15**=15w **1X22**=22w					
			HFRW=Round Flat Top Legacy Bollard White Cone Reflector **HFRL**=Round Flat Top Legacy Bollard with LED Cone Reflector **HFG**=Round Flat Top Legacy Bollard with Glass **HFL**=Round Flat Top Legacy Bollard with Louvers	**C**=Type III* **F**=Type V ***Not available on HFL Head**	**1X10**=10w **1X15**=15w **1X22**=22w					

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7001CB

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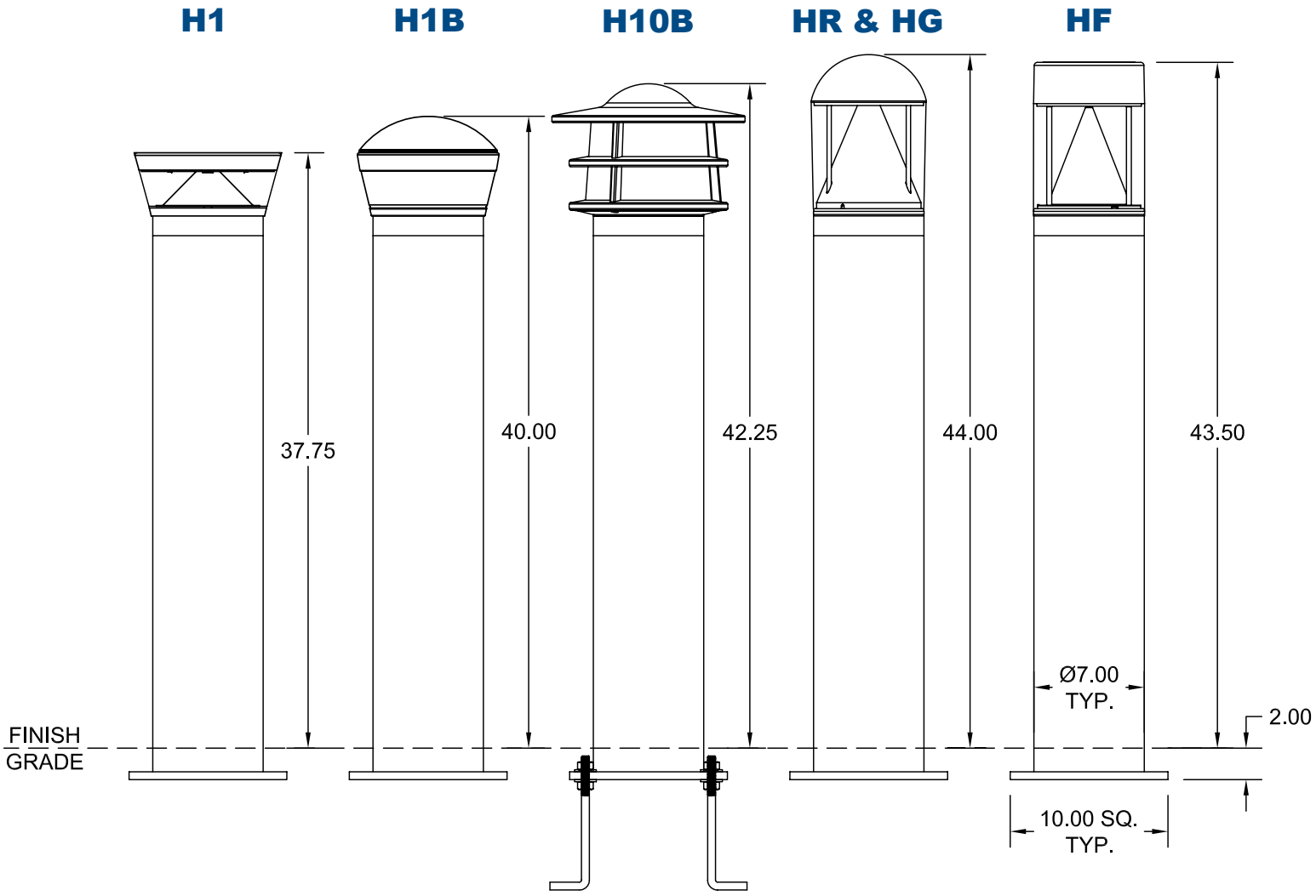
Dimensions



(4) 1/2" ANCHOR BOLTS
REQUIRED (TYP.)
CONSULT FACTORY FOR ANCHOR BOLT TEMPLATE

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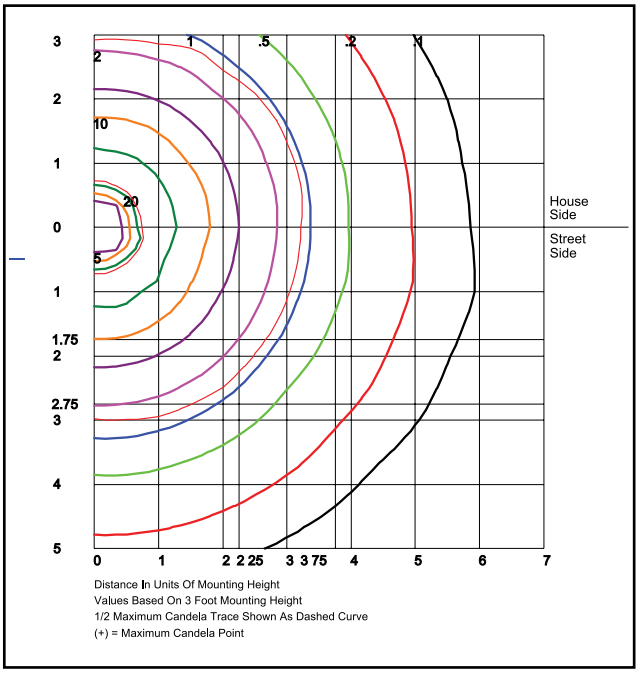
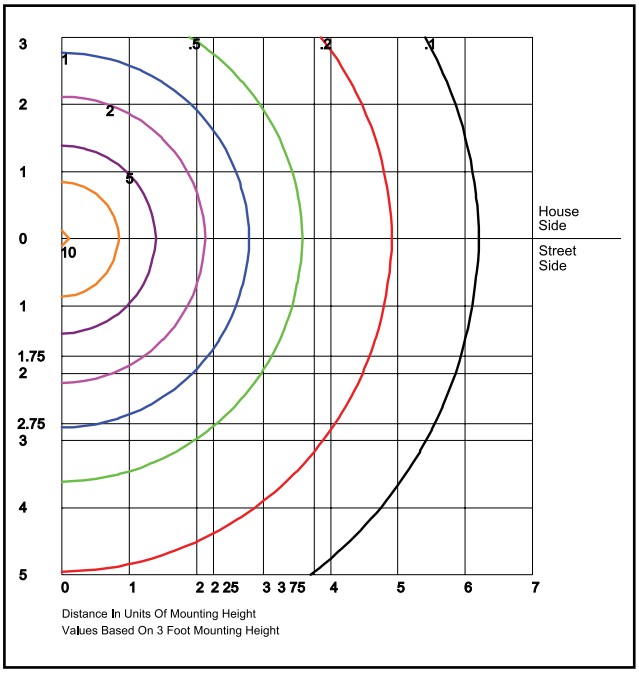
LumaCrete Q3D Concrete Printed Bollards

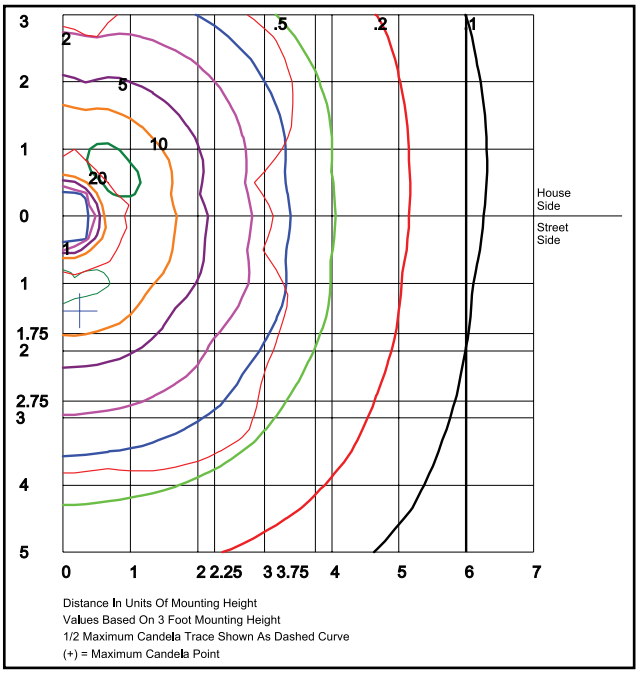
Photometric Data



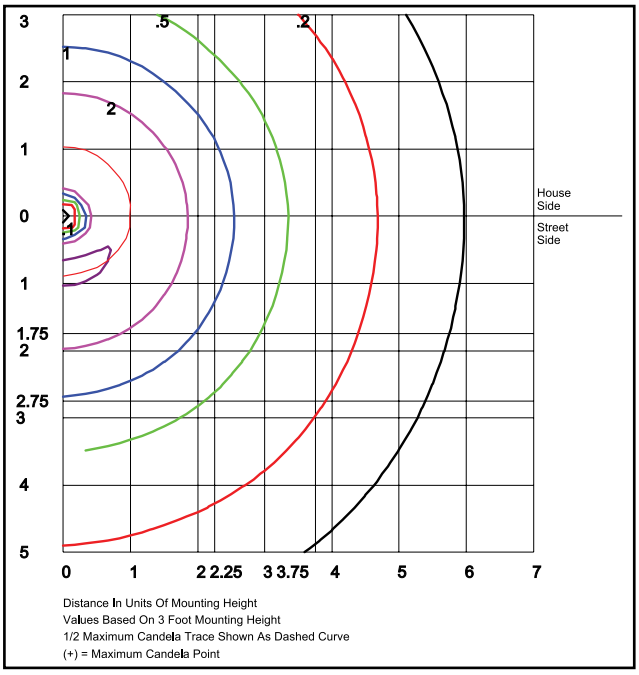
H1 Round Flat Beveled & H1B Round Dome Beveled
Type V, Clear Lens
Grid in feet, Mounting Height = 3 ft.



H1 Round Flat Beveled & H1B Round Dome Beveled
Type V, LumaLens
Grid in feet, Mounting Height = 3 ft.



H10 Lighthouse Bollard
Type V, Clear Lens
Grid in feet, Mounting Height = 3 ft.

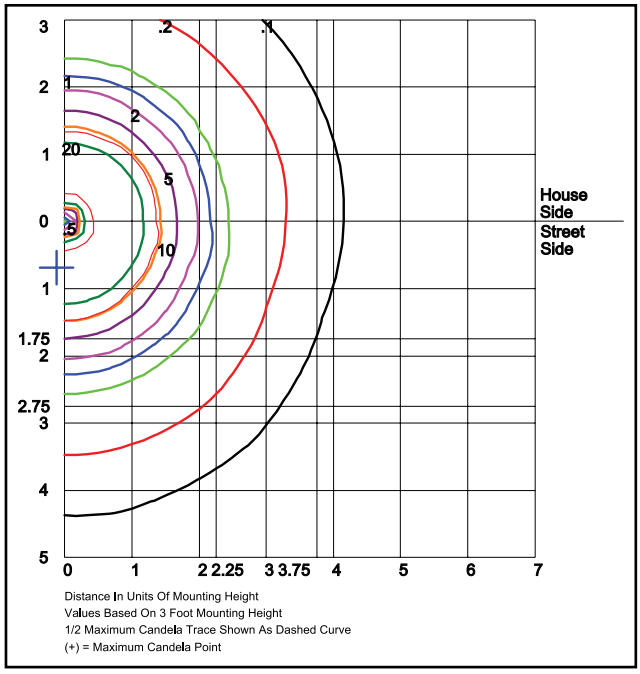


H10 Lighthouse Bollard
Type V, LumaLens
Grid in feet, Mounting Height = 3 ft.

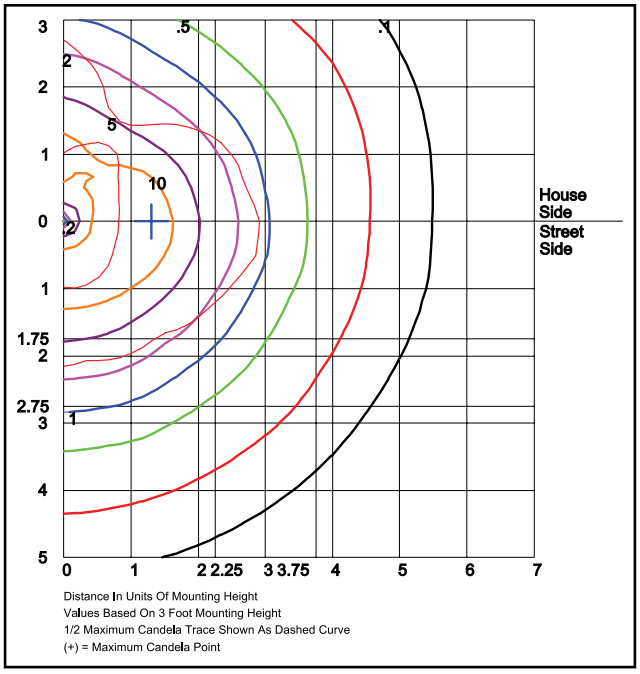
7001CB

LumaCrete Q3D Concrete Printed Bollards

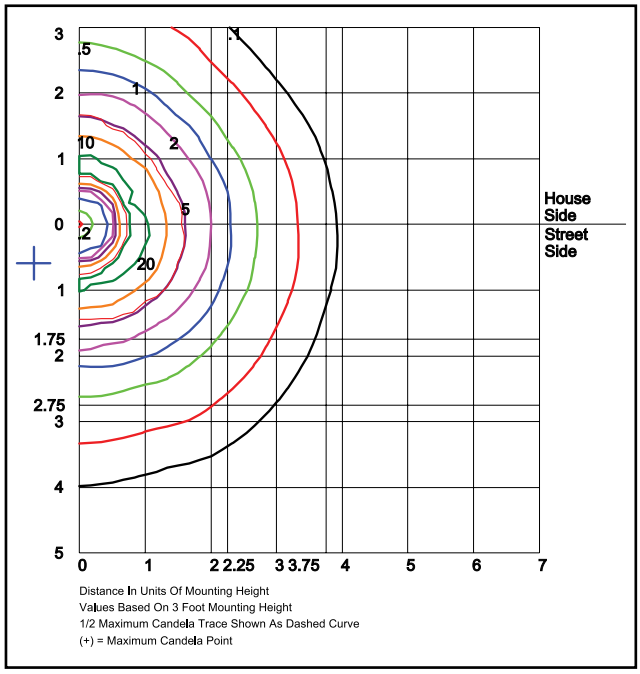
Photometric Data



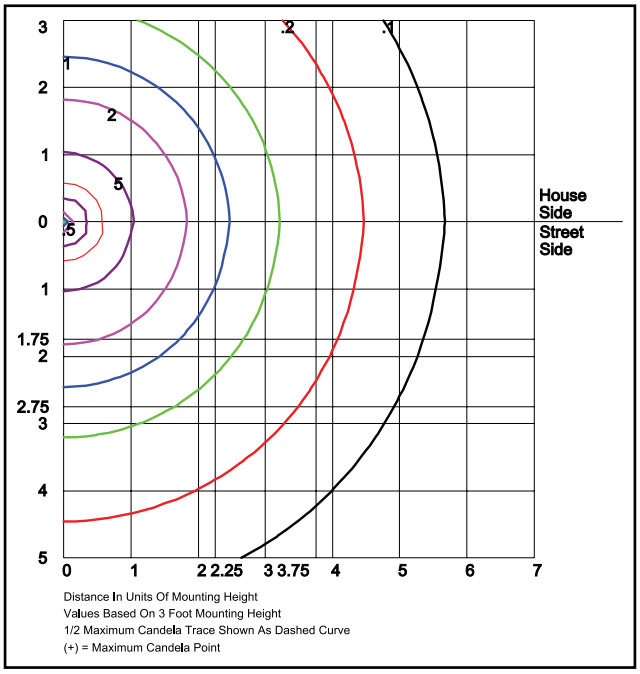
HRW & HFRW Round Dome and Flat Top Bollard LED Reflector
Type V
Grid in feet, Mounting Height = 3 ft.



HG & HFG Round and Flat Top Bollard with Glass
Type III
Grid in feet, Mounting Height = 3 ft.



HL & HFL Round and Flat Top Bollard with Louvers
Type V
Grid in feet, Mounting Height = 3 ft.



HRW & HFRW Round Dome and Flat Top Bollard LED Reflector
Type V, LumaLens
Grid in feet, Mounting Height = 3 ft.

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Photometric Performance

Optic	Wattage (Catalog Logic)	10W (1X10)	15W (1X15)	20W (1X22)
	Input Watts	11.3W	15.9W	23.8W
	CCT	Delivered Lumens		
Legacy Bollards with Cone Reflector C=Type III Optic	3000K	738	1,033	1,549
	4000K	800	1,120	1,680
	5000K	834	1,167	1,750
	BUG Rating	B0-U2-G1	B1-U3-G1	B1-U3-G1
Legacy Bollards with Cone Reflector F=Type V Optic	3000K	1,031	1,444	2,165
	4000K	1,119	1,566	2,349
	5000K	1,165	1,631	2,447
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1
Legacy Bollards with Glass C=Type III Optic	3000K	789	1,105	1,657
	4000K	856	1,199	1,798
	5000K	892	1,249	1,873
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1
Legacy Bollards with Glass F=Type V Optic	3000K	773	1,082	1,622
	4000K	838	1,173	1,760
	5000K	873	1,222	1,833
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1
Legacy Bollards with Louvers F=Type V Optic Only	3000K	521	730	1,094
	4000K	565	791	1,187
	5000K	589	824	1,236
	BUG Rating	B0-U2-G0	B1-U2-G1	B1-U3-G1

Optic	Wattage (Catalog Logic)	16W (1X16)	23W (1X23)	34W (1X34)
	Input Watts	17.7W	24.8W	37.2W
	CCT	Delivered Lumens		
H1 & HB1 with Clear Polycarbonate F=Type V Optic	3000K	1,406	1,968	2,952
	4000K	1,525	2,135	3,202
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1
H1 & HB1 with LumaLens F=Type V Optic	3000K	899	1,258	1,888
	4000K	975	1,365	2,047
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U4-G2

Optic	Wattage (Catalog Logic)	10W (1X10)	19W (1X19)	28W (1X28)
	Input Watts	10.2W	20.4W	30.6W
	CCT	Delivered Lumens		
H10 with Clear Polycarbonate Lens F=Type V Optic	3000K	855	1,710	2,566
	4000K	883	1,765	2,648
	5000K	917	1,834	2,751
	BUG Rating	B1-U3-G1	B1-U3-G1	B2-U3-G2
H10 with LumaLens F=Type V Optic	3000K	473	945	1,418
	4000K	488	976	1,463
	5000K	507	1,014	1,520
	BUG Rating	B0-U3-G1	B1-U3-G1	B1-U3-G2

Projected Lumen Maintenance

Data shown for 4000 CCT TM-21-11	Input Watts	Initial	Compare to MH 25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated LED Life
H1/H1B L70 Lumen Maintenance @ 25°C / 77°F	All wattages up to and including 34w	1.00	0.96	0.92	0.84	187,000
H1/H1B L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.93	0.87	0.73	113,000
H1/H1B L80 Lumen Maintenance @ 40°C / 104°F		1.00	0.97	0.93	0.86	144,000

Data shown for 5000 CCT TM-21-11	Input Watts	Initial	Compare to MH 25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated LED Life
H10 Lumen Maintenance @ 25°C / 77°F	All wattages up to and including 31w	1.00	0.93	0.86	0.72	106,000
H10 Lumen Maintenance @ 50°C / 122°F		1.00	0.91	0.83	0.66	88,000
H10 Lumen Maintenance @ 40°C / 104°F		1.00	0.92	0.84	0.67	61,000

Data shown for 5000 CCT TM-21-11	Input Watts	Initial	Compare to MH 25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated LED Life
Legacy Bollards L70 Lumen Maintenance @ 25°C / 77°F	All wattages up to and including 24w	1.00	0.95	0.90	0.80	147,000
Legacy Bollards L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.89	0.78	0.55	67,000
Legacy Bollards L80 Lumen Maintenance @ 40°C / 104°F		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 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.