

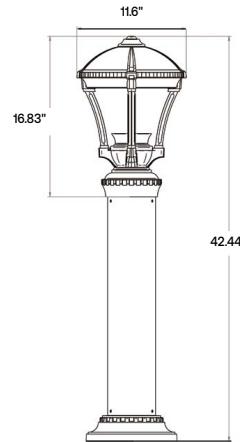
Providence® Bollard

FEATURES

- Reliable uniform illumination
- True IES Type 2, 3, 4, and 5 distributions
- 3000K, 4000K, 5000K CCT
- 0-10V dimmable
- 20kV/10kA surge suppression
- Thermal protection



3000K and warmer CCTs only



Weight	
PROB	27 lbs / 12 kg

SPECIFICATIONS

HOUSING

- Luminaire shall have discrete optical and gear compartments that do not share any physical housings
- All housing components shall be die-cast aluminum, sealed with continuous silicone rubber gaskets
- Standard configurations shall have a clear flat tempered glass lens
- All internal and external hardware shall be stainless steel
- Optical bezel finish shall match the luminaire housing
- Luminaire finish shall consist of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish
- Luminaire finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance

LED/OPTICS

- LEDs shall be mounted to a metal printed circuit board assembly (MCPCB) with a uniform conformal coating over the panel surface and electrical features
- LED optics shall be clear injection molded PMMA acrylic
- MCPCB and optic shall be sealed to a die-cast anodized aluminum heat sink with an injection molded silicone rubber gasket. IP66

INSTALLATION

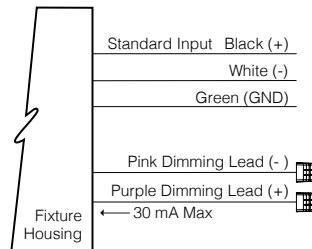
- Fixture shall slip over two 1/2" x 10" x 2" anchor bolts supported by hex nuts and washers to level fixture. Provision for water drainage at footing is recommended
- One-piece cast aluminum arms accept the standard 3" slip fitter on the Providence fixture
- Arms are prewired with quick disconnects
- Wall mounted arms do not include wall mounting hardware
- Pole mounted arms use 3/8-16 hardware bolts for attaching to the pole
- Driver assembly shall be mounted to a prewired internal tray with quick disconnects for removal
- Luminaire shall have tool-less service access to the gear compartment. Driver and surge suppressor shall be mounted to a prewired tray with quick disconnects that may be removed from the gear compartment

ELECTRICAL

- Luminaires shall have integral surge protection that shall be U.L. recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J
- Drivers shall be U.L. recognized with an inrush current maximum of <20.0 Amps maximum at 230VAC
- Drivers shall not be compatible with current sourcing dimmers, consult factory for current list of known compatible dimming systems, approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV

ELECTRICAL (CONTINUED)

- Luminaires not configured with an optional control system shall be provided with 0-10V purple and pink dimming leads



CERTIFICATIONS

- Luminaire shall be listed with ETL for outdoor, wet location use, UL1598, UL 8750 and Canadian CSA Std. C22.2 no.250
- IDA approved, 3000K and warmer CCTs only

WARRANTY

- 5 year warranty

ORDERING GUIDE
Example: PROB-Y2-2040-LDL-BLT

CATALOG #

Model	Distribution	Lumen Package	Color
PROB	Providence Bollard LED	Y2 Type 2 Y3 Type 3 Y4 Type 4 Y5 Type 5	2030 3000K CCT, 25 watts 2040 4000K CCT, 25 watts 2050 5000K CCT, 25 watts 3030 3000K CCT, 43 watts 3040 4000K CCT, 43 watts 3050 5000K CCT, 43 watts
			BLS Black Gloss Smooth BLT Black Matte Textured DBS Dark Bronze Gloss Smooth DBT Dark Bronze Matte Textured GTT Graphite Matte Texture LGS Light Grey Gloss Smooth LGT Light Grey Matte Textured PSS Platinum Silver Gloss Smooth VGT Verde Green Matte Textured WHS White Gloss Smooth WHT White Matte Textured CC Custom Color ¹

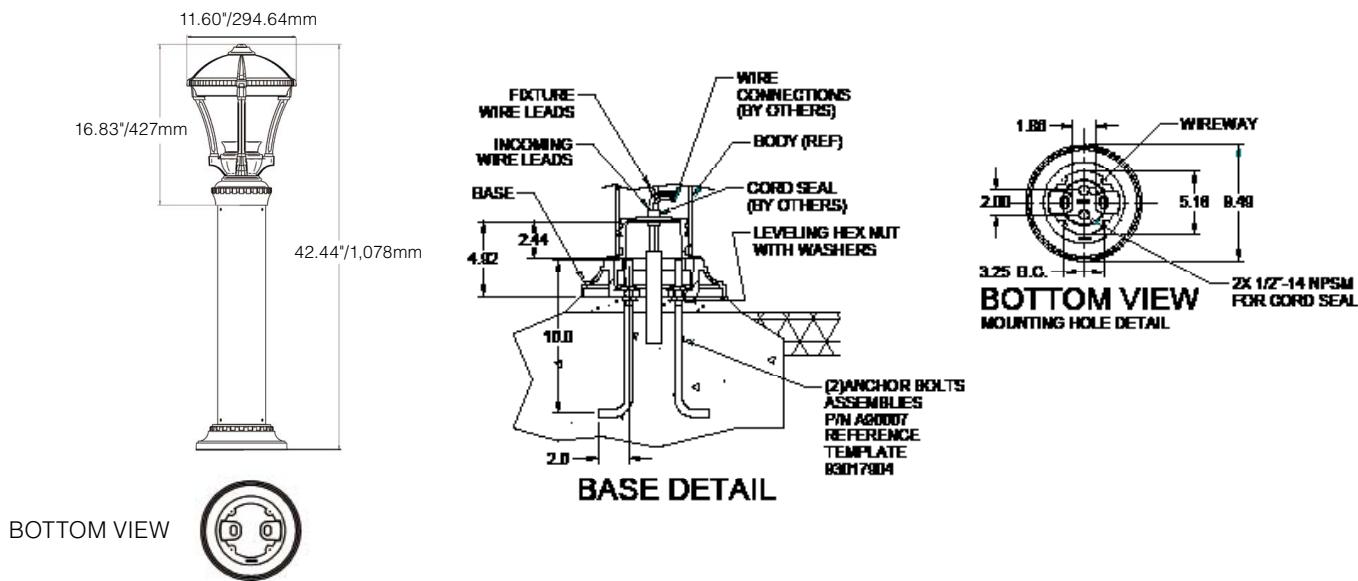
Options	Mounting
FS1 Fusing	FL Fluted Shaft 5" DIA.
DSC Dark Sky Cap	RD Round Shaft 5" DIA.
PFC Brass Painted Finial	
BPS Brass Painted Struts	
LDL Lightly Diffused Lens	PM Pier Mount

Notes:

1 Consult factory for custom color, marine and corrosive finish

DELIVERED LUMENS

Light Engine	Lensing	Distribution	Ordering Code	Average System Watts	3000K 70CRI			4000K 70CRI			5000K 70CRI								
					Lumen	Bug Rating		Efficacy (Lm/W)	Lumen	Bug Rating		Efficacy (Lm/W)	Lumen	Bug Rating		Efficacy (Lm/W)			
						B	U			B	U			B	U				
2030						2040						2050							
2000 Series	Clear Lens (Standard)	Type 2	Y2	25	1792	1	0	1	71	1957	1	0	1	78	1951	1	0	1	78
		Type 3	Y3		1830	1	0	1	73	1970	1	0	1	78	1958	1	0	1	78
		Type 4	Y4		1793	1	0	1	71	1957	1	0	1	78	1960	1	0	1	78
		Type 5	Y5		1735	1	0	1	65	1894	1	0	1	76	1989	1	0	1	76
	Lightly Diffused Lens	Type 2	Y2 LDL		1216	1	1	1	49	1361	1	1	1	54	1387	0	1	1	56
		Type 3	Y3 LDL		1216	1	1	1	50	1361	1	1	1	56	1386	1	1	1	57
		Type 4	Y4 LDL		1170	1	2	1	47	1309	1	2	1	52	1334	1	2	1	53
		Type 5	Y5 LDL		1139	1	1	1	46	1275	1	1	1	51	1299	1	1	1	52
3030						3040						3050							
3000 Series	Clear Lens (Standard)	Type 2	Y2	43	2975	1	0	1	69	3247	1	0	1	76	3238	1	0	1	75
		Type 3	Y3		3038	1	1	1	70	3270	1	0	1	76	3261	1	0	1	75
		Type 4	Y4		2988	1	0	1	69	3262	1	0	1	76	3253	1	0	1	75
		Type 5	Y5		2892	2	0	1	67	3157	2	0	1	73	3148	2	0	1	73
	Lightly Diffused Lens	Type 2	Y2 LDL		2092	1	1	1	49	2342	1	1	1	54	2386	1	1	1	56
		Type 3	Y3 LDL		2091	1	1	1	50	2341	1	1	1	56	2385	1	1	1	57
		Type 4	Y4 LDL		2012	1	2	1	47	2252	1	2	1	52	2295	1	2	1	53
		Type 5	Y5 LDL		1959	1	1	1	46	2193	1	1	1	51	2234	1	1	1	52

DIMENSIONS


BOTTOM VIEW

LED COLOR

Value	Ordering Code		
	XX30	XX40	XX50
CCT Average	3000K	4000K	5000K
CRI Minimum	70	70	70
S/P Ratio	1.22	1.5	1.8

ELECTRICAL CHARACTERISTICS

Configuration	Driver								Inrush Current Peak				Dimming			
	Ordering Code	LED Current (mA)	System Wattage (W)	Line Voltage		Amps AC		Min. Power Factor	Max THD (%)	Operating Temp. Range	120V		277V		Dimming Range (V)	Source/Sink Current (mA)
				VAC	Hz	120	277				Ipeak (A)	Ipeak (A)				
20XX	255	25	120-277	50/60	0.21	0.09	>0.9	20	-40°C To +55°C	21	160 uS	49	160 uS	10% TO 10)%	1mA	
30XX	400	42			0.35	0.15										

TM-21 LIFETIME CALCULATION (500MA)

Optical System	Ordering Code	Ambient Environment °C	Projected Lumen Maintenance (Khrs)					Reported L70
			15	25	50	60 (TM-21)	100	
MicroCore	32LED	15	100%	99%	99%	98%	97%	>96Khrs.
		25	99%	99%	98%	97%	95%	
		40	98%	97%	94%	93%	89%	

Consult factory for Amber, Turtle Friendly, Gulf Coast and Observatory applications.