

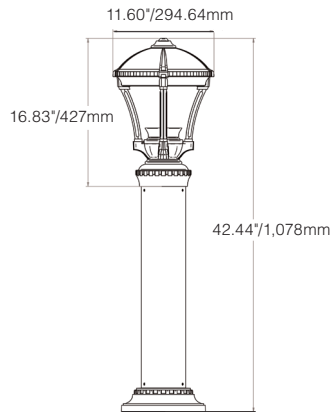
Providence® LED™ – Bollard PROB

TYPE

FEATURES

- Reliable uniform illumination
- Types II, III, IV and V distributions
- 3000K, 4000K, 5000K CCT
- 0-10V dimmable
- 20kV/10kA surge suppression
- Thermal Protection
- 13 standard powder coat finishes
- Die-Cast housing
- Full Cutoff optical system

SPECIFICATIONS



BOTTOM VIEW



- Diameter: 11.60" / 294.64 mm
- Height: 42.44" / 1,078 mm
- Weight: 27 lbs / 12kg
- IP Rating: 66



3000K and warmer CCTs only



ORDERING INFORMATION

1	2	3	4	5	6
PROB					
Model	Distribution	Lumen Package	Color	Options	Mounting

1. MODEL

PROB Providence Bollard LED

2. DISTRIBUTION

Y2 Type 2
Y3 Type 3
Y4 Type 4
Y5 Type 5

3. LUMEN PACKAGE

3050 5000K CCT, 43 watts
3040 4000K CCT, 43 watts
3030 3000K CCT, 43 watts
2050 5000K CCT, 25 watts
2040 4000K CCT, 25 watts
2030 3000K CCT, 25 watts

4. COLOR

WH Arctic White
BL Black
BLT Matte Black
DB Dark Bronze
DGN Dark Green
TT Titanium
WDB Weathered Bronze
MDB Bronze Metallic
VBU Verde Blue
CRT Corten
MAL Matte Aluminum
MG Medium Grey
AGN Antique Green
LG Light Grey
RAL Premium Color
CUSTOM ** Contact Factory

5. OPTIONS

FS1 Fusing
DSC Dark Sky Cap
PFC Brass Painted Finial
BPS Brass Painted Struts
LDL Lightly Diffused Lens

6. MOUNTING

FL Fluted Shaft 5" DIA.
RD Round Shaft 5" DIA.
PM Pier Mount



ARCHITECTURAL AREA LIGHTING
16555 East Gale Ave. | City of Industry | CA 91745
P 626.968.5666 | F 626.369.2695 | www.aal.net
Copyright © 2015 Rev 9.15

JOB _____
TYPE _____
NOTES _____

LUMINAIRE PERFORMANCE

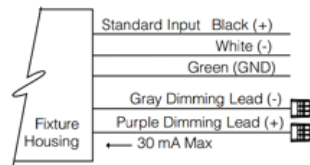
Light Engine	Lensing	Distribution	Ordering Code	Ordering Code														Average System Watts	
				5000K CCT					4000K CCT					3000K CCT					
				Delivered Lumens	Efficacy (Lm/W)	BUG Rating			Delivered Lumens	Efficacy (Lm/W)	BUG Rating			Delivered Lumens	Efficacy (Lm/W)	BUG Rating			
					3050				3040				3030						
3000 Series	Clear Lens (Standard)	TYPE 2	Y2	3238	75	1	0	1	3247	76	1	0	1	2975	69	1	0	1	43
		TYPE 3	Y3	3261	75	1	0	1	3270	76	1	0	1	3038	70	1	1	1	
		TYPE 4	Y4	3253	75	1	0	1	3262	76	1	0	1	2988	69	1	0	1	
		TYPE 5	Y5	3148	73	2	0	1	3157	73	2	0	1	2892	67	2	0	1	
	Lightly Diffused Lens	TYPE 2	Y2...LDL	2386	56	1	1	1	2342	54	1	1	1	2092	49	1	1	1	
		TYPE 3	Y3...LDL	2385	57	1	1	1	2341	56	1	1	1	2091	50	1	1	1	
		TYPE 4	Y4...LDL	2295	53	1	2	1	2252	52	1	2	1	2012	47	1	2	1	
		TYPE 5	Y5...LDL	2234	52	1	1	1	2193	51	1	1	1	1959	46	1	1	1	
					2050				2040				2030						
2000 Series	Clear Lens (Standard)	TYPE 2	Y2	1951	78	1	0	1	1957	78	1	0	1	1792	71	1	0	1	25
		TYPE 3	Y3	1958	78	1	0	1	1970	78	1	0	1	1830	73	1	0	1	
		TYPE 4	Y4	1960	78	1	0	1	1957	78	1	0	1	1793	71	1	0	1	
		TYPE 5	Y5	1889	76	1	0	1	1894	76	1	0	1	1735	69	1	0	1	
	Lightly Diffused Lens	TYPE 2	Y2...LDL	1387	56	1	1	1	1361	54	1	1	1	1216	49	1	1	1	
		TYPE 3	Y3...LDL	1386	57	1	1	1	1361	56	1	1	1	1216	50	1	1	1	
		TYPE 4	Y4...LDL	1334	53	1	2	1	1309	52	1	2	1	1170	47	1	2	1	
		TYPE 5	Y5...LDL	1299	52	1	1	1	1275	51	1	1	1	1139	46	1	1	1	

ELECTRICAL CHARACTERISTICS

Configurationi		Driver								Inrush Current				Dimming		
		LED Drive mA	System Watts	Line Voltage		Amps AC		Min. Power Factor	Max THD (%)	Operating Temp. Range	120V		277V		Dimming Range	Source/ Sink Current
VAC	HZ			120	277	Ipeak (A)	Ipeak (A)									
3050	3000 series	400	42	120-277	50/60	0.35	0.15	≥ 9	20	-40°C To +55°C	21	160 μS	49	160 μS	10% TO 100%	1mA
3040																
3020																
2050	2000 series	255	25	120-277	50/60	0.21	0.09	≥ 9	20	-40°C To +55°C	21	160 μS	49	160 μS	10% TO 100%	1mA
2040																
2020																

WIRING LEADS

Luminaires shall be provided with 0-10 purple and gray dimming leads.



LED COLOR

	Ordering Code		
	3K	4K	5K
CCT Average	3000K	4000K	5000K
CRI Minimum	70	70	70
S/P Ratio	1.2	1.5	1.8

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

TM-21 LIFETIME CALCULATION

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



ARCHITECTURAL AREA LIGHTING
16555 East Gale Ave. | City of Industry | CA 91745
P 626.968.5666 | F 626.369.2695 | www.aal.net
Copyright © 2015 Rev 9.15

JOB _____
TYPE _____
NOTES _____

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.

OPTICAL

- 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.

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.

SERVICING

- 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.

MOUNTING

- Fixture shall slip over two ½" 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.

FINISH

- 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.

CERTIFICATION

- Luminaire shall be listed with ETL for outdoor, wet location use, UL1598, UL 8750 and Canadian CSA Std. C22.2 no.250.

WARRANTY / TERMS AND CONDITIONS OF SALE

Download:

<http://www.hubbellinglighting.com/resources/warranty/>

