

Product # _____ Type _____ Date _____

Project Name _____

Project Location _____ Prepared By _____

Heavy Duty Bollard-Round

Housing

One-piece extruded from corrosion resistant low copper aluminum aluminum 8" diameter (round) or 6-3/4" (square) secured to a cast aluminum mounting base with four tamper resistant screws.

Finish

The Bollard is finished in all weather bronze polyester powder coating (other finishes are available).

Optical Assembly

A 1/4" thick acrylic diffuser is sealed to the post with a full EPDM gasket, sealing out moisture and dust. Cast louvers allow for low fixture brightness and no direct light output above horizontal. Suitable for both commercial or residential use.

Lamping:

High efficacy DC LED

Installation & Mounting

Luminaire shall be completely pre-wired for ease of installation. Installation by using four 9" inch anchor bolts, leveling nuts and washers.

Warranty & Certifications

Suitable for wet locations.

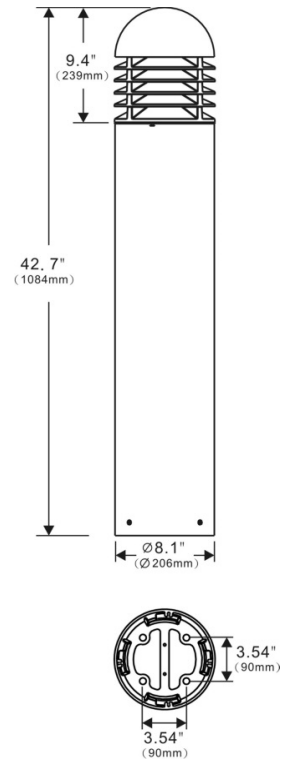
Electrical Assembly

LED Light Engines: 25W or 35W operating below 85° junction temperature delivering maintained illumination to meet LM80 L70 lumen maintenance for greater than 5-years illumination life based on 25°C ambient operating temperature.

LED Drivers: UL/CSA recognized component to meet UL8750 & EN61347 (USR/CNR-E328335). Suitable for input power at 120-277VAC 50/60Hz. 347V also available for Canada.

25W DC LED = 0.50 fc @ 10 feet; Recommended spacing 20 ft for 1.0 fc avg.

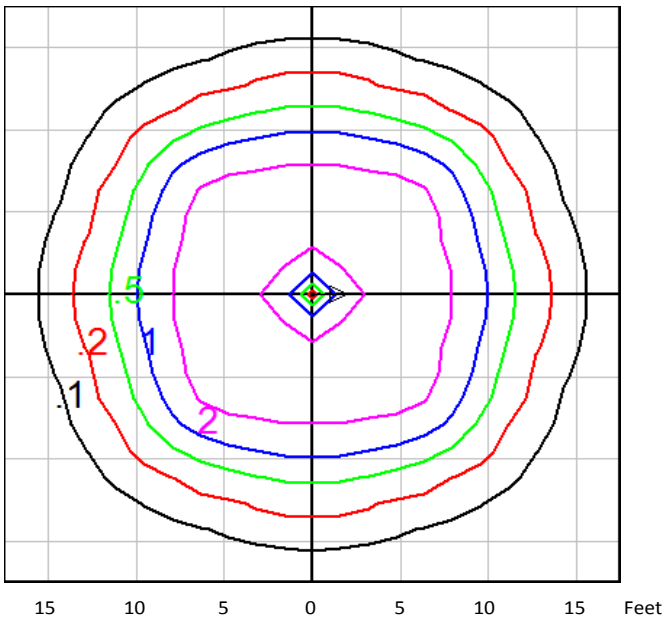
35W DC LED = 0.50 fc @ 12 feet; Recommended spacing 24 ft for 1.0 fc avg.



Heavy Duty Bollard-Round

Photometrics

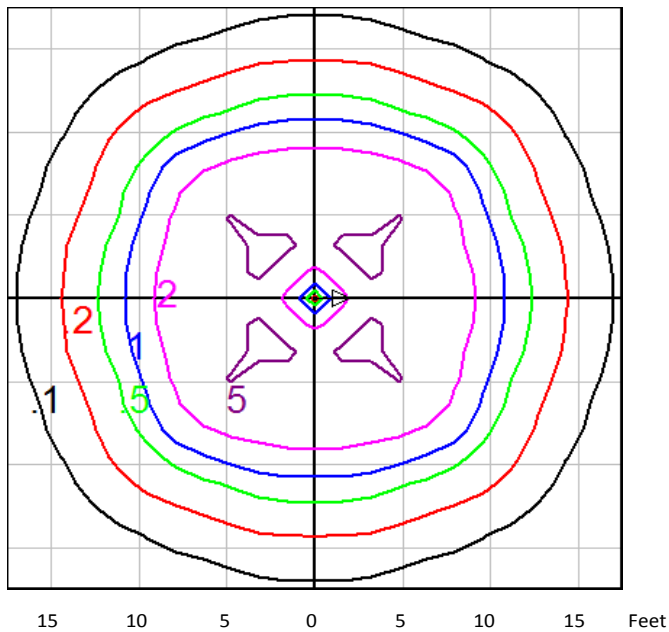
HDBR 25W FOOT CANDLE ISOLINE



**BOLLARD FOOT CANDLE
COLOR CODE**

FOOT CANDLES	COLOR CODE
20	Dark Green
10	Orange
5	Purple
2	Magenta
1	Blue
0.5	Light Green
0.2	Red
0.1	Black

HDBR 35W FOOT CANDLE ISOLINE



Heavy Duty Bollard-Round

HEAVY DUTY BOLLARD ROUND POWER AND LUMEN DATA						
SYSTEM WATTS (W)	LED POWER (W)	COLOR TEMP (K)	LED LUMENS (+/- 5%)	LED LUMENS/WATT	LUMINAIRE LUMENS (+/- 5%)	LUMINAIRE LUMENS/WATT
25	22	2700	2684	122	933	37
25	22	3000	2860	130	995	40
25	22	4000	3080	140	1071	43
25	22	5000	3300	150	1148	46
35	32	2700	3904	122	1358	39
35	32	3000	4160	130	1447	41
35	32	4000	4480	140	1558	45
35	32	5000	4800	150	1669	48

Ordering Guide

1 Model:

HDBR - Heavy Duty
Bollard Round

2 Wattage:

25 - 25W DC
35 - 35W DC

3 CCT Color Temp:

27K - 2700K
30K - 3000K
40K - 4000K
50K - 5000K

4 Input VAC:

U - Universal Input
(120V - 277V)

5 Lighting Control:

ND - Non Dimming
DIM - Dimming

6 Finishes:

GR = Gray
BZ = Bronze
WT = White
BK = Black
SV = Silver

Due to continuing efforts to improve our products, North Star Lighting reserves the right to make changes to this product at any time without prior notice.

