

Product # \_\_\_\_\_ Type \_\_\_\_\_ Date \_\_\_\_\_

Project Name \_\_\_\_\_

Project Location \_\_\_\_\_ Prepared By \_\_\_\_\_

## BCR - BCS LED Bollard

### Specifications

- The BCR and BCS LED Bollards utilize UV stabilized Polycarbonate lenses and sealed optical compartment. Designed to replace HID Bollards up to 70W MH or HPS. These Bollards are ideal for retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical Facilities.

### Housing

- Extruded Aluminium housing with Flush Cast Aluminium Mounting Base with Vandal-Resistant screws. Choice of three Cast Aluminium tops: Flat, Dome, or Pyramid.

### Optical system

- Clear UV stabilized exterior polycarbonate lens sealed to the housing with Silicone gaskets. Reflective white UV stabilized interior polycarbonate cone reflector.

### LED Drivers

- UL/CSA recognized component to meet UL8750 & EN61347 (USR/CNR -E328335). Suitable for input power at 120-277VAC or 347VAC. Minimum power factor >0.95. Integrated 10kV/5kA surge protection device.

### Controls

- 1-10 VDC Dimming
- Internal Microwave Sensor (120-277VAC only)

### Mounting Options

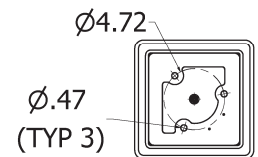
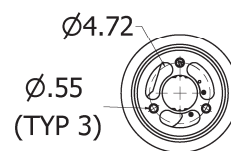
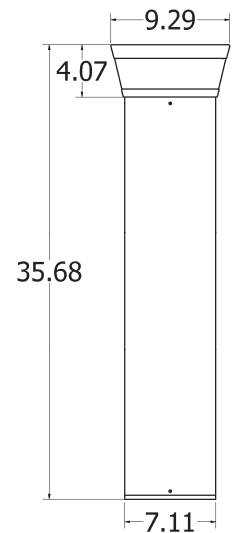
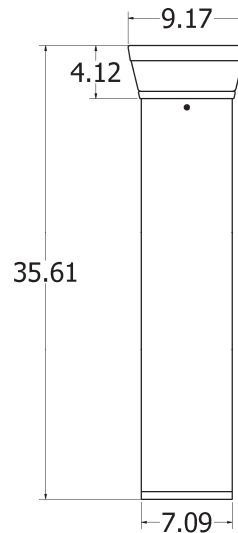
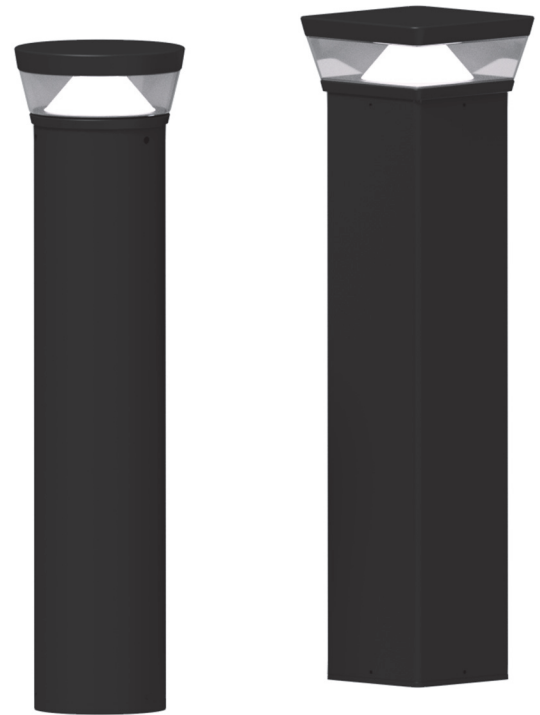
- Mounting Kit with 3 – 8" Anchor Bolts

### Finish

- Standard finish is a textured Architectural Black or Bronze Powder coat Finish. Custom Colors available upon request.

### Warranty and Certifications

- 5-year Warranty for -20°C to +40°C Environment. In compliance with UL 1598, 8750 and CSA C22.2 NO. 250.0 standards. Suitable for indoor/ outdoor wet (IP66) or damp location use.



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.



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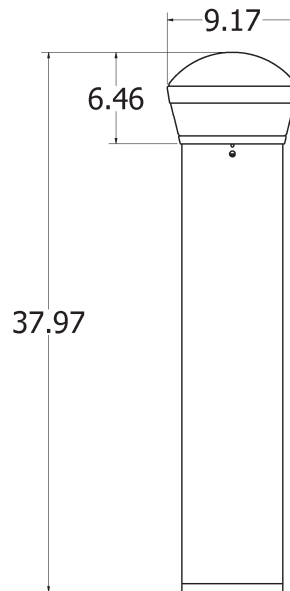
## Product specifications

Model	Power (W)	Input Voltage	Lens type	Lumens	BUG Rating	Lumens/Watt
BCR	16	120-277 VAC or 347 VAC	Clear PC	1525	B1-U3-G1	95
	23			2135	B1-U3-G1	92
	34			3202	B1-U3-G1	94
	16		Opaque PC	975	B1-U3-G1	60
	23			1365	B1-U3-G1	59
	34			2047	B1-U4-G2	60
BCS	16	120-277 VAC or 347 VAC	Clear PC	1554	B1-U3-G1	97
	23			2175	B1-U3-G1	94
	34			3263	B1-U3-G1	95
	16		Opaque PC	938	B0-U3-G1	58
	23			1313	B1-U3-G1	57
	34			1969	B1-U4-G2	57

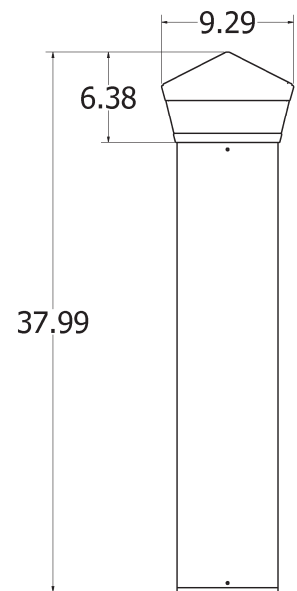
## Architectural Top Options



Round Bollard –  
Dome top



Square Bollard –  
Pyramid Top

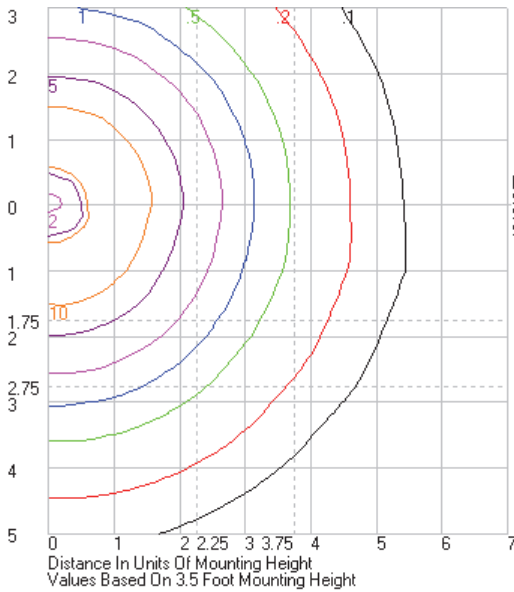


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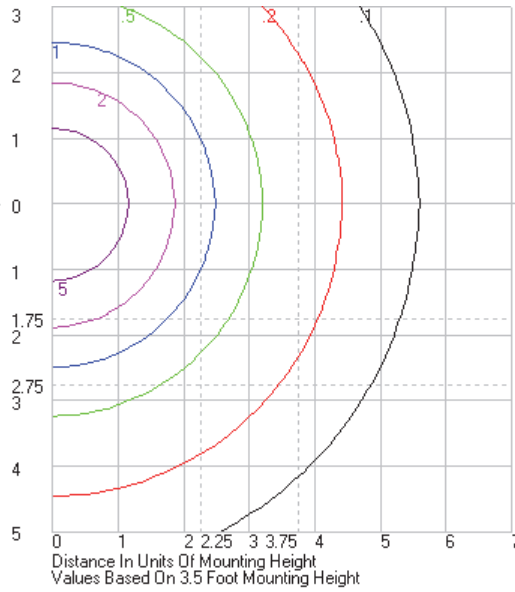
# BCR - BCS LED Bollard

## Photometrics

BCR 34W – Clear Lens

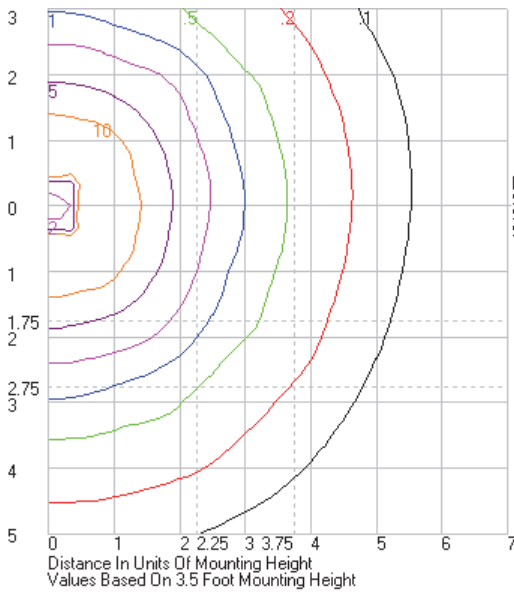


BCR 34W – Opaque Lens

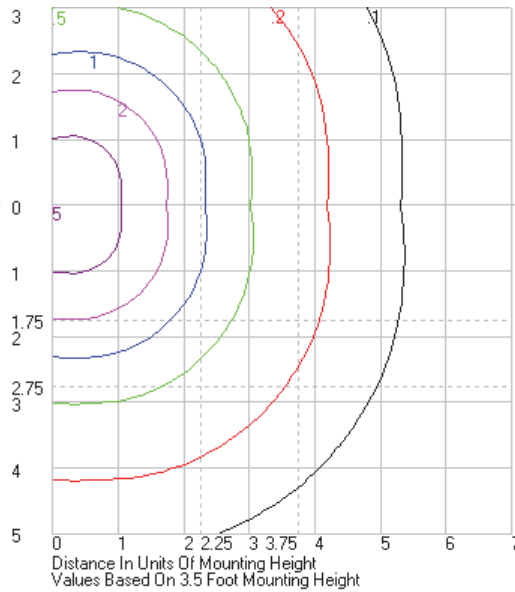


Isoline Legend	
Illuminance (Fc)	
Color	Value
Orange	10
Purple	5
Pink	2
Blue	1
Green	0.5
Red	0.2
Black	0.1

BCS 34W – Clear Lens



BCS 34W – Opaque Lens



Note: Grids are in Feet with a mounting height of 3.5 Ft.

NOTE: SEE PHOTOMETRIC APPLICATION DATA FOR SPECIFIC BEAM

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## Projected Lumen Maintenance

TM-21-11	Power (W)	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@25°C
BCR L70 Lumen Maintenance @ 25°C	16/23/34	1.00	0.93	0.86	0.72	106,000
BCS L70 Lumen Maintenance @ 25°C	16/23/34	1.00	0.93	0.86	0.72	106,000
TM-21-11	Power (W)	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@50°C
BCR L70 Lumen Maintenance @ 50°C	16/23/34	1.00	0.91	0.83	0.66	88,000
BCS L70 Lumen Maintenance @ 50°C	16/23/34	1.00	0.91	0.83	0.66	88,000
TM-21-11	Power (W)	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L80@40°C
BCR L80 Lumen Maintenance @ 40°C	16/23/34	1.00	0.92	0.84	0.67	61,000
BCS L80 Lumen Maintenance @ 40°C	16/23/34	1.00	0.92	0.84	0.67	61,000

## Ordering Guide

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Luminaire Catalog Number			Catalog Adder			Options	
Model Number	Decorative Top	LED Power (Watts)	LED CCT	Input voltage	Lighting Controls	Accessories	Finish
BCR - Round Bollard	F - Flat Top	16 - 16 Watts	4K - 4000 K	U - 120 VAC-277 VAC	ND - Non-Dimming	OL - Opaque Lens - UV stabilized PC PE - Internal Microwave Sensor SF - Single Fuse (120-277VAC only) DF - Double Fuse (120-277VAC only)	BK - Black BR - Bronze
	D - Dome Top	23 - 23 Watts		C - 347 VAC	DM - Dimming		
BCS - Square Bollard	F - Flat Top	34 - 34 Watts					
	P - Pyramid Top						

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