

Round & Square Low Profile Pathway Bollards COB Technology

The NB1C3 and NB2C3 LED Low Profile Pathway Bollards with polycarbonate lenses and sealed optical compartments are designed to replace incandescent and halogen pathway lighting. These fixtures are ideal for retail centers, parks, schools and universities, public transit and airports, office buildings and medical facilities.

Specifications and Features:

•							
Housing:	Extruded Aluminum Housing with Flush Mounting Base & Vandal-Resistant Screws, Flat Top, Internal Driver Tray for Easy Maintenance.						
Listing & Ratings:	CSA: Listed for Wet Locations, ANSI/UL 1598, 8750 IP66 Sealed LED Compartment.						
Finish:	Textured Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.						
Reflector:	Reflective White Polycarbonate Cone Reflector						
Lens:	Clear Polycarbonate Vandal-Resistant Lens						
Mounting Options:	Mounting Kit with 8"Anchor Bolts, Included.						
COB LED:	QSSI Cool Copper COB						
Wattage:	Array: 20w, System: 20w; (70w HID Equivalent)						
Driver:	Electronic Driver, 120-277V, 50/60Hz or 347V, 50/60Hz; 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 -20°C to +40°C Environment.						

See Page 2 for Projected Lumen Maintenance Table.

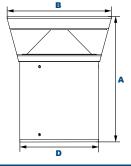


NB1C3 - Round Low Profile Pathway Bollard





NB2C3 - Square Low Profile Pathway Bollard



DimensionsWidth (B)9¼" (234mm)Diameter (D)7" (180mm)

10" (254mm)

Height (A)

Certification & Listings:





	4X5					
Model	Wattage	Driver	ССТ	Color	Height	Options
NB1C3=Round Low Profile Pathway Bollard NB2C3=Square Low Profile Pathway Bollard	4X5 =20w	U= 120-277V C= 347V	3K =3000K 41K =4100K 5K =5000K	Z=Bronze B=Black W=White G=Gray C=Custom (Consult Factory)	10=10" C=Custom* *Consult factory. Minimum NEC requirments for wiring space and above ground level must be met.	SF=Single Fuse (120-277V Only) DF=Double Fuse (120-277V Only) SP=Surge Protection

Order Information Example:

NB1C34X5U41KZ10SF



Round & Square Low Profile Pathway Bollards COB Technology

Accessories & Replacement Parts:





ROSBASE

Mounting Accessories (Order Separately, Field Installed)

BOLAN4 Mounting Kit, Includes Bracket & Three (3) 4"

BOLAN8 Mounting Kit, Includes Bracket & Three (3) 8" Anchor Bolts BOLAN12 Mounting Kit, Includes Bracket & Three (3)

Mounting Kit, Includes Bracket & Three (3) BOLAN15

15" Anchor Bolts

12" Anchor Bolts

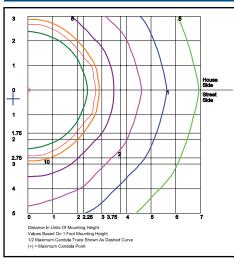
Replacement Parts (Order Separately, Field Installed)

Die Cast Base Plate with Powdercoat Finish Over a Chromate Conversion Coating. Fits NB1

BOSBASE* Die Cast Base Plate with Powdercoat Finish Over a Chromate Conversion Coating. Fits NB2.

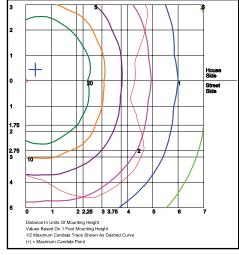
*Specify Color: Z=Bronze, B=Black, W=White, G=Gray, C=Custom (Consult Factory)

Photometric Data



NB1C34X5U41K

Grid in feet, Mounting Height=1ft.



NB2C34X5U41K

Grid in feet, Mounting Height=1ft.

Photometric Performance

				5000 CCT 80 CRI			4100 CCT 80 CRI						
LED COB Watts	Drive Current (mA)	Input Watts	Bollards	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G
COB LED 20w	350	20	NB1C3 (Round Low Profile Pathway Bollards)	2,327	87	1	0	1	2,282	87	1	0	1
	350		NB2C3 (Square Low Profile Pathway Bollards)	2,457	93	1	0	1	2,409	91	1	0	1

Projected Lumen Maintenance

Data shown for 5000 CCT			Compare to MH			
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 25°C
NB1C3 L70 Lumen Maintenance @ 25°C / 77°F	20	1.00	0.93	0.86	0.72	106,000
NB2C3 L70 Lumen Maintenance @ 25°C / 77°F	20	1.00	0.93	0.86	0.72	106,000
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 50°C
NB1C3 L70 Lumen Maintenance @ 50°C / 122°F	20	1.00	0.91	0.83	0.66	88,000
NB2C3 L70 Lumen Maintenance @ 50°C / 122°F	20	1.00	0.91	0.83	0.66	88,000
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L80@ 40°C
NB1C3 L80 Lumen Maintenance @ 40°C / 104°F	20	1.00	0.92	0.84	0.67	61,000
NB2C3 L80 Lumen Maintenance @ 40°C / 104°F	20	1.00	0.92	0.84	0.67	61,000

NOTES:

- 1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 350mA 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.