

NHL-RAR

Reveal Open Large Round Post Top



The NHL-RAR Reveal Architectural Open Large Round Post Top is available in Type III or V distributions with two lens options designed to replace HID lighting systems up to 1000w MH or HPS. The fixture mounts to a pole top tenon. Typical area lighting applications include parking areas, walkways, and street lighting applications. Mounting heights of 12 to 30 feet can be used based on light level and uniformity requirements.

Specifications and Features:

Housing:

Die Cast Aluminum Housing, Integral Heat Sinking. Photocell Adaptable.

Listing & Ratings:

CSA: Listed for Wet Locations, ANSI/UL 1598, 8750; IP66 Sealed LED Compartment.

Finish:

Black Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

Lens:

Clear UV-Stabilized Polycarbonate or SoftLED LumaLens Opal UV-Stabilized Polycarbonate Vandal-Resistant Array Lens to Seal LED Array

Mounting Options:

Accommodates "P3" 2⁷/₈" O.D. x 3" Tenons

LED Array:

Aluminum Boards

Wattage:

100w Array: 100w, System: 108w; (150-250w HID Equivalent)
176w Array: 176w, System: 190w; (400-1000w HID Equivalent)
276w Array: 276w, System: 293w; (400-1000w HID Equivalent)

Driver:

Electronic Driver, 120-277V, 50/60Hz or 347-480V, 50/60Hz; Less Than 20% THD and PF>0.90. Standard Internal Surge Protection 6kV. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

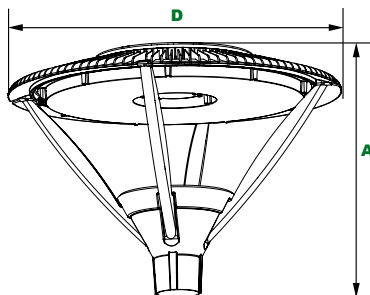
Controls:

Fixtures Ordered with Factory-Installed Photocell or Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Remote Direct Wired Interface of 1-10V Dimming is Not Implied and May Not Be Available, Please Consult Factory. Fixtures are Tested with LEPC Controls and May Not Function Properly With Controls Supplied By Others. Fixtures are NOT Designed for Use with Line Voltage Dimmers.

Warranty:

5-Year Warranty for -40°C to +50°C Environment.

See Page 3 for Projected Lumen Maintenance Table.



Dimensions

Diameter (D)	26 ³ / ₄ " (679mm)
Height (A)	19 ⁷ / ₈ " (505mm)

Project Information:

Project Name:	Fixture Type:
Complete Catalog #:	Date:
Comments:	

Certification & Listings:



Reveal Open Large Round Post Top

Order Information Example: NHL-RAR-F-176W-50K-UNV-C-B-SP

NHL-RAR							
Model	Optics	Wattage	CCT	Driver	Lens	Color	Options
NHL-RAR= Reveal Open Large Round Post Top	C=Type III F=Type V	100W=100W 176W=176W 276W=276W*	30K=3000K* 40K=4000K 50K=5000K	UNV= 120-277V H =347-480V	C=Clear UV-Stabilized Polycarbonate Array Lens L= Opal UV-Stabilized Polycarbonate Array Lens*	B=Black CC=Custom (Consult Factory)	P2AB =PSRTN Tenon Adaptor, Black P2AC =PSRTN Tenon Adaptor, Custom Color (Consult Factory) SF =Single Fuse* DF =Double Fuse* SP =Surge Protection R3 =3-Pin Twist Lock Photocell Receptacle R5 =5-Pin Twist Lock Photocell Receptacle R7 =7-Pin ANSI C136.41—2013 Twist Lock Photocell Receptacle S2 =Microwave Sensor with Dimming for Mounting Heights of 8' to 40'.* S4 =Microwave On/Off Motion Sensor for Mounting Heights of 8' to 19'.* *120-277V Models Only.
		*Use with F Optic Only.	*176w Type V Only		*Use with Type V Optic Only.		

Accessories & Replacement Parts:

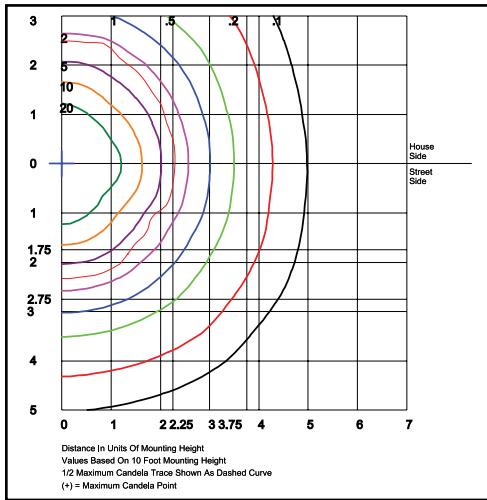
Mounting Accessories (Order Separately, Field Installed)	Accessories (Order Separately, Field Installed)	Replacement Parts (Order Separately, Field Installed)
PSRTN* Retrofit Tenon Adaptor, Die Cast with Powdercoat Finish, Hardware Included. Converts a 2½" x 4" Pole Tenon to a 2½" x 3" Tenon. *Specify Color: B=Black, C=Custom (Consult Factory)	P18131 Twist Lock Non-Shorting (Open) Cap Disconnects Service to Fixture for Temporary or Permanent Disabling (Fixture Always Off). IP65, 480V Maximum. P18132 Twist Lock Shorting Cap Provides Fixed Service to Fixture (Fixture Always on). IP65, Rated Load 7200w Tungsten. P18140 110-120VAC Instant Twist Lock Photocell P18150 120VAC Time Delay Twist Lock Photocell P18152 277VAC Time Delay Twist Lock Photocell P18156 120-277VAC Universal Twist Lock Photocell P18157 480VAC Time Delay Twist Lock Photocell. For 480V use only.	PF80ALL SoftLED LumaLens Opal UV-Stabilized Polycarbonate Array Lens P17117 Internal Microwave Sensor with Dimming for Mounting Heights of 8 to 40'. 120-277VAC, 50/60Hz P17123 Internally Mounted Microwave On/Off Motion Sensor for Mounting Heights of 8' to 19', 120-277VAC, 50/60Hz
 <p>PSRTN</p>	 <p>P18131 P18132 P18140 P18150 P18152</p> <p>P18156 P18157</p>	 <p>P17117 P17123</p>

EPA (Effective Projected Area)

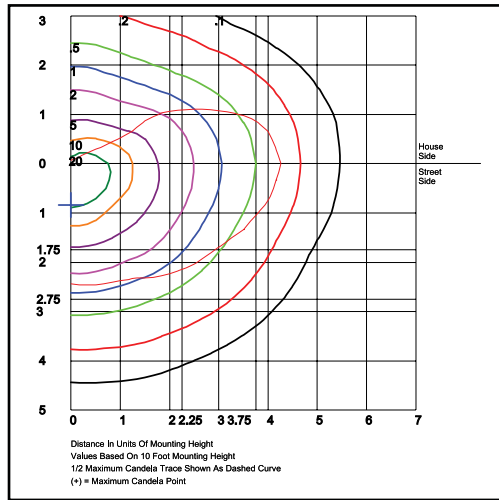
EPA (Sq. Ft.)	Weight (Lbs.)
1.80	32 Lbs

Reveal Open Large Round Post Top

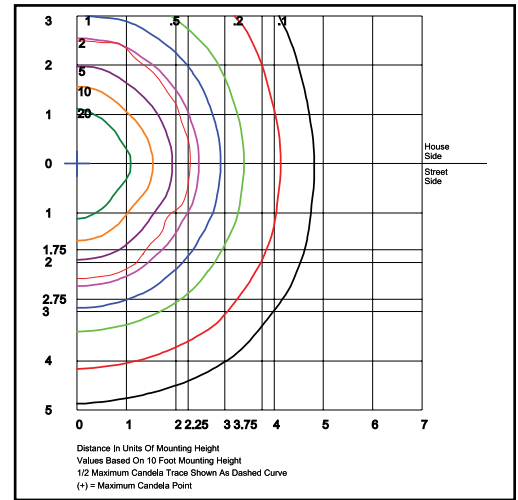
Photometric Data



NHL-RAR-F-276W-UNV-50K-C, Clear
Lens Type V
Grid in MH
MH=10 Feet



NHL-RAR-C-176W-UNV-50K-C, Clear
Lens Type III
Grid in MH
MH=10 Feet



NHL-RAR-C-100W-UNV-50K-C
Type V
Grid in MH
MH=10 Feet

Photometric Performance

		"Wattage (Catalog Logic)"	100W (1X100)	176W (1X176)	276W (1X276)
		Input Watts	108.2W	190.4W	292.5W
Optic	CCT	Delivered Lumens			
C=Type III	3000K	7,363	12,958	-	-
	4000K	7,661	13,483	-	-
	5000K	7,959	14,008	-	-
	BUG Rating	B2-U0-G2	B3-U0-G3	-	-
F=Type V	3000K	-	17,880	30,285	-
	4000K	-	18,818	31,259	-
	5000K	-	19,174	32,477	-
	BUG Rating	-	B3-U2-G2	B4-U0-G3	-

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 LED Life
L70 Lumen Maintenance @ 25°C / 77°F	All wattages up to and including 293w	1.00	0.98	0.96	0.92	362,000
L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.96	0.92	0.84	183,000
L80 Lumen Maintenance @ 40°C / 104°F		1.00	0.97	0.94	0.88	167,000

NOTES:

- Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 525mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
- Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.