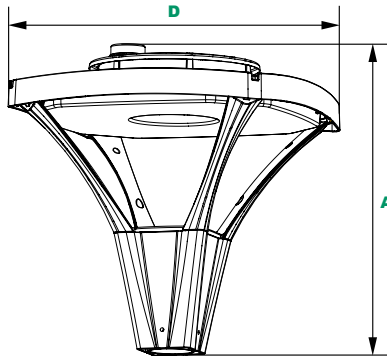


NHL-SAR

Reveal Open Large Square Post Top



Dimensions

Width (D)	21¾" (551mm)
Height (A)	23¾" (589mm)

The NHL-SAR Reveal Architectural Open Large Square 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 Opal UV-Stabilized Polycarbonate Vandal-Resistant Array Lens to Seal LED Array

Mounting Options:

Accommodates "P3" 2⅞" 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 4 for Projected Lumen Maintenance Table.

Project Information:

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

Certification & Listings:



Reveal Open Large Square Post Top

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

NHL-SAR							
Model	Optics	Wattage	CCT	Driver	Lens	Color	Options
NHL-SAR= Reveal Open Large Square Post Top	C= Type III F= Type V	100W= 100w 176W= 176w 276W= 276w *Use with F Optic Only.	30K= 3000K* 40K= 4000K 50K= 5000K *Use with 176W F Optic Models Only.	UNV= 120-277V H = 347-480V	C= Clear UV-Stabilized Polycarbonate Array Lens L= Opal UV-Stabilized Polycarbonate Array Lens* *Use with Type V Optic Only.	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.

Accessories & Replacement Parts:

Mounting Accessories (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)	


PSRTN

Accessories (Order Separately, Field Installed)	
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.


P18131

P18132

P18140

**P18150
P18152**

**P18156,
P18157**

Replacement Parts (Order Separately, Field Installed)	
PFS80ALL	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

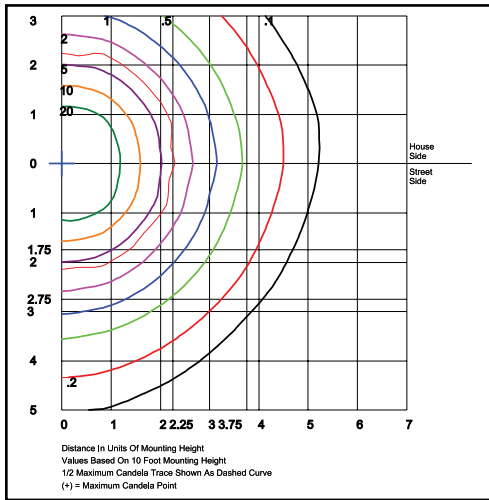

P17117

P17123
EPA (Effective Projected Area)

EPA (Sq. Ft.)	Weight (Lbs.)
1.70	32 Lbs

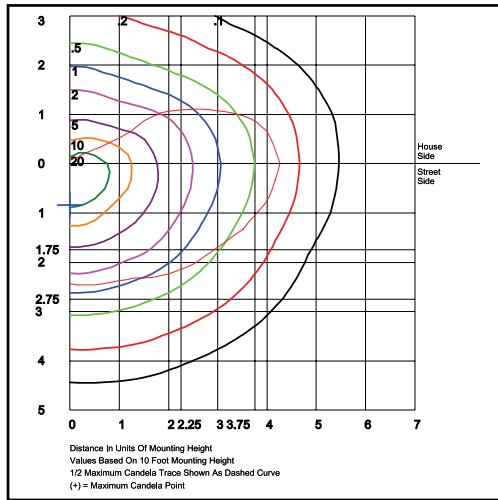
Reveal Open Large Square Post Top

Photometric Data



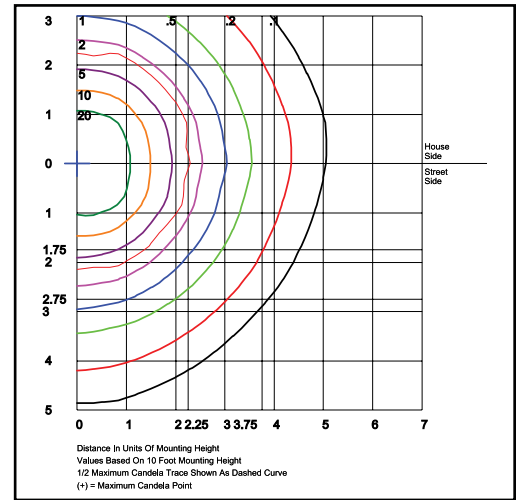
**NHL-SAR-F-276W-50K-UNV-C,
Clear Lens Type III**

Grid in MH
MH=10 Feet



**NHL-SAR-C-276W-50K-UNV-C,
Clear Lens Type III**

Grid in MH
MH=10 Feet



**NHL-SAR-C-100W-50K-UNV-C,
Opal Type III**

Grid in MH
MH=10 Feet

Photometric Performance

Optic	CCT	"Wattage (Catalog Logic)"		
		100W (1X100)	176W (1X176)	276W (1X276)
		108.2W	190.4W	292.5W
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	-	18,192	30,671
	4000K	-	19,022	31,658
	5000K	-	19,509	32,892
	BUG Rating	-	B4-U2-G2	B5-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:

1. 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.
2. Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.