The **NHL-SAR** 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 Polycarbonate or SoftLED LumaLens Opal Polycarbonate Vandal-Resistant Array Lens to Seal LED Array

**Mounting Options:**
Accommodates "P3" 2¾" O.D. x 3" Tenons

**Wattage:**
100w Array: 100w, System: 108w; (150-250w HID Equivalent)
176w Array: 176w, System: 190w; (400-500w HID Equivalent)

**Driver:**
Electronic Driver, 120-277V, 50/60Hz or 347-480V, 50/60Hz; Less Than 20% THD and PF>0.9. 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 LEPG 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 2 for Projected Lumen Maintenance Table.

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**Order Information Example:**

**NHL-SAR-F-176W-50K-UNV-C-B-SP**

<table>
<thead>
<tr>
<th>Model</th>
<th>Optics</th>
<th>Wattage</th>
<th>CCT</th>
<th>Voltage</th>
<th>Lens</th>
<th>Color</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NHL-SAR</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Clear Polycarbonate Array Lens</td>
<td>B=Black</td>
<td></td>
</tr>
<tr>
<td>Open Large</td>
<td>C=Type III</td>
<td>100W=100w</td>
<td>40K=4000K</td>
<td>UNV=120-277V</td>
<td></td>
<td>CC=Custom</td>
<td></td>
</tr>
<tr>
<td>Square Post</td>
<td>F=Type V</td>
<td>176W=176w</td>
<td>50K=5000K</td>
<td>480=347-480V</td>
<td>SoftLED LumaLens Opal Polycarbonate Array Lens</td>
<td>(Consult Factory)</td>
<td></td>
</tr>
<tr>
<td>Top</td>
<td>*100w Model Only</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Project Information:**

| Project Name: |  |
|---------------|  |
| Complete Catalog #: | Date: |
| Comments: |  |

---

**Certification & Listings:**

Specifications subject to change without notice. Rev 031319

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New Horizon Lighting products reduce operating costs while delivering high efficiency lighting. NHL products are built in the USA and are available or through leading national distributors.

New Horizon Lighting
P 732.833.8086  F 732.833.8085
9 Gladney Avenue
Bayville, NJ 08721

www.newhorizonlighting.com
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### Open Large Square Post Top

#### Photometric Data

![Photometric Data Diagram]

**NHL-SAR-F-176W-50K-UNV-C**
Type V
Grid in MH
MH=25 Feet

**NHL-SAR-C-176W-50K-UNV-C**
Type III
Grid in MH
MH=25 Feet

#### Photometric Performance

<table>
<thead>
<tr>
<th>LED Board Watts</th>
<th>Drive Current (mA)</th>
<th>Input Watts</th>
<th>Optics</th>
<th>Lumens</th>
<th>LPW</th>
<th>B</th>
<th>U</th>
<th>G</th>
<th>Lumens</th>
<th>LPW</th>
<th>B</th>
<th>U</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LED 100w</strong></td>
<td></td>
<td>525</td>
<td>Type III Clear</td>
<td>7,959</td>
<td>74</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>7,661</td>
<td>71</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>190</td>
<td>Type V Clear</td>
<td>19,509</td>
<td>103</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>19,022</td>
<td>100</td>
<td>4</td>
<td>2</td>
<td>2</td>
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<td></td>
<td></td>
<td></td>
<td>Type V Opal</td>
<td>16,680</td>
<td>88</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>16,264</td>
<td>85</td>
<td>3</td>
<td>2</td>
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</tbody>
</table>

#### Projected Lumen Maintenance

<table>
<thead>
<tr>
<th>Data shown for 5000 CCT</th>
<th>Input Watts</th>
<th>Compare to MH</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TM-21-11</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L70 Lumen Maintenance @ 25°C / 77°F</td>
<td>190</td>
<td>1.00</td>
</tr>
<tr>
<td><strong>TM-21-11</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L70 Lumen Maintenance @ 50°C / 122°F</td>
<td>190</td>
<td>1.00</td>
</tr>
<tr>
<td><strong>TM-21-11</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L80 Lumen Maintenance @ 40°C / 104°F</td>
<td>190</td>
<td>1.00</td>
</tr>
</tbody>
</table>

#### 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.

#### Accessories & Replacement Parts:

- **P18131**
  - Twist Lock Non-Shorting (Open) Cap Disconnects Service to Fixture for Temporary or Permanent Disabling (Fixture Always Off). IP65, 72W Max.
- **P18140, P18150, P18152**
  - Internal Microwave Sensor with Dimming for Mounting Heights of 8 to 40'. 120-277VAC, 50/60Hz, 105-250VAC Instant Twist Lock Photocell
- **P18156**
  - 120-277VAC Universal Twist Lock Photocell
- **P18157**
  - 480VAC Time Delay Twist Lock Photocell. For 480V use only.

#### EPA (Effective Projected Area)

<table>
<thead>
<tr>
<th>EPA (Sq. Ft.)</th>
<th>Weight (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.70</td>
<td>32 Lbs</td>
</tr>
</tbody>
</table>

#### Accessories & Replacement Parts (Order Separately, Field Installed)

- **P17117**
  - SoftLED LumaLens Opal Polycarbonate Array Lens
- **P18131**
  - Internal Microwave Sensor with Dimming for Mounting Heights of 8 to 40'. 120-277VAC, 50/60Hz, 105-250VAC Instant Twist Lock Photocell
- **P18140**
  - 110-120VAC Instant Twist Lock Photocell
- **P18142**
  - 105-250VAC 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

#### EPA (Sq. Ft.) Weight (Lbs.)

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<thead>
<tr>
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<tbody>
<tr>
<td>1.70</td>
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</table>