The NHL-RAR2 Architectural Open Small Round Post Top is available in Type III or V distributions with two lens options designed to replace HID lighting systems up to 250w 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 20 feet can be used based on light level and uniformity requirements.

### Specifications and Features:

**Housing:**

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

**Finish:**
Textured Architectural Bronze or 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" 2 1/4" O.D. x 3" Tenons

**Wattage:**
- 37w Array: 37w, System: 39w; (70-150w HID Equivalent)
- 65w Array: 65.1w, System: 68w; (150-250w HID Equivalent)
- 84w Array: 84w, System: 86w; (150-250w 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 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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### Project Information:

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

---

### Certification & Listings:

- **Lighting Facts:**
- **UL:**
- **IP66:**

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New Horizon Lighting
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9 Gladney Avenue
Bayville, NJ 08721

www.newhorizonlighting.com

Specifications subject to change without notice. Rev. 061019
Open Small Round Post Top

NHL-RAR2

473,000 Hours

Accessories & Replacement Parts:

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, 460V 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
- P18142 105-287VAC 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.

Replacement Parts (Order Separately, Field Installed)

- PF70ALL SoftLED LumaLens Opal Polycarbonate Array Lens
- P17117 Internal Microwave Sensor with Dimming for Mounting Heights of 8 to 40’. 120-277VAC, 50/60Hz

Photometric Performance

Photometric Data

Photometric Data

EPA (Effective Projected Area)

<table>
<thead>
<tr>
<th>EPA (Sq. Ft.)</th>
<th>Weight (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.48</td>
<td>14 Lbs</td>
</tr>
</tbody>
</table>

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>LED 37w</td>
<td>39</td>
<td>525</td>
<td>Type III Clear</td>
<td>2,832</td>
<td>73</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>2,726</td>
<td>70</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>LED 65w</td>
<td>68</td>
<td>86</td>
<td>Type III Clear</td>
<td>4,975</td>
<td>73</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>4,788</td>
<td>70</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>LED 84w</td>
<td></td>
<td></td>
<td>Type III Clear</td>
<td>6,199</td>
<td>72</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>5,967</td>
<td>69</td>
<td>2</td>
<td>0</td>
<td>2</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Type III Opal</td>
<td>7,180</td>
<td>84</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>7,004</td>
<td>81</td>
<td>2</td>
<td>2</td>
<td>1</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Type V Clear</td>
<td>8,398</td>
<td>97</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>8,192</td>
<td>95</td>
<td>3</td>
<td>2</td>
<td>1</td>
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<td></td>
<td>Type V Opal</td>
<td>7,180</td>
<td>83</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>7,004</td>
<td>81</td>
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<td>1</td>
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</tbody>
</table>

Projected Lumen Maintenance

Data shown for 5000 CCT

<table>
<thead>
<tr>
<th>LED Lumen Maintenance</th>
<th>Input Watts</th>
<th>Compare to MH</th>
</tr>
</thead>
<tbody>
<tr>
<td>L70 @ 25°C / 77°F</td>
<td>86</td>
<td></td>
</tr>
<tr>
<td>Input Watts</td>
<td>Initial Hrs</td>
<td>25,000 Hrs</td>
</tr>
<tr>
<td></td>
<td>1.00</td>
<td>0.98</td>
</tr>
</tbody>
</table>

L70 @ 50°C

<table>
<thead>
<tr>
<th>LED Lumen Maintenance</th>
<th>Input Watts</th>
<th>Compare to MH</th>
</tr>
</thead>
<tbody>
<tr>
<td>L70 @ 50°C / 122°F</td>
<td>86</td>
<td></td>
</tr>
<tr>
<td>Input Watts</td>
<td>Initial Hrs</td>
<td>25,000 Hrs</td>
</tr>
<tr>
<td></td>
<td>1.00</td>
<td>0.97</td>
</tr>
</tbody>
</table>

L80 @ 40°C

<table>
<thead>
<tr>
<th>LED Lumen Maintenance</th>
<th>Input Watts</th>
<th>Compare to MH</th>
</tr>
</thead>
<tbody>
<tr>
<td>L80 @ 40°C / 104°F</td>
<td>86</td>
<td></td>
</tr>
<tr>
<td>Input Watts</td>
<td>Initial Hrs</td>
<td>25,000 Hrs</td>
</tr>
<tr>
<td></td>
<td>1.00</td>
<td>0.98</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.

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