The NHL-TBD Turbine architectural wall cylinder provides up or down lighting with narrow, medium and wide distributions designed to replace HID lighting systems from up to 100w MH or HPS. Typical wall mounted lighting applications include retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities. Mounting heights of 8 to 16 feet can be used based on light level and uniformity requirements.

**Specifications and Features:**

**Housing:**
Extruded Round Aluminum Housing with Built-In Heat Sinks.

**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:**
Tempered Clear Flat Glass Lens

**Reflector:**
Wide, Medium and Narrow Distributions

**Mounting Options:**
Mount Over a 4" Recessed Outlet Box.

**Wattage:**
COB: 20w, System: 21w; (100w HID Equivalent)

**Driver:**
Electronic Driver, 120-277V, 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.

**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.

**Order Information Example:**

**NHL-TBD-A-20W-41K-UNV-Z**

**NHL-TBD**

<table>
<thead>
<tr>
<th>Model</th>
<th>Optics</th>
<th>LED</th>
<th>Wattage</th>
<th>Driver</th>
<th>CCT</th>
<th>Color</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHL-TBD</td>
<td>- LED Up or Down</td>
<td>Wall Cylinder</td>
<td>A=70° Reflector B=100° Reflector D=30° Reflector</td>
<td>20W=1x20w</td>
<td>UNV=120-277V</td>
<td>Z=Bronze</td>
<td>SF=Single Fuse</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>SF=Double Fuse SB=Surge Protection</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>C=Custom</td>
<td>PC=Button Photocell, 120-277VAC</td>
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<tr>
<td></td>
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<td></td>
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<td></td>
<td>EM=Battery Backup, 90 Minutes</td>
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</table>

**Project Information:**

<table>
<thead>
<tr>
<th>Project Name:</th>
<th></th>
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<tbody>
<tr>
<td>Complete Catalog #:</td>
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<tr>
<td>Date:</td>
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<tr>
<td>Comments:</td>
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</tr>
</tbody>
</table>

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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
### NHL-TBD
#### LED Up or Down Turbine LED Wall Cylinder

**Photometric Performance**

<table>
<thead>
<tr>
<th>LED Board Watts</th>
<th>Drive Current (mA)</th>
<th>Input Watts</th>
<th>Beam</th>
<th>Lumens</th>
<th>LPW</th>
<th>B</th>
<th>U</th>
<th>G</th>
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</thead>
<tbody>
<tr>
<td>LED 20W</td>
<td>525</td>
<td>21</td>
<td>A</td>
<td>2,309</td>
<td>110</td>
<td>2</td>
<td>1</td>
<td>0</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>B</td>
<td>2,364</td>
<td>113</td>
<td>1</td>
<td>1</td>
<td>0</td>
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<tr>
<td></td>
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<td>D</td>
<td>2,209</td>
<td>105</td>
<td>2</td>
<td>1</td>
<td>0</td>
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</tbody>
</table>

**Projected Lumen Maintenance**

- **Data shown for 4100 CCT**
  - **Compare to MH**
    - **L70 Lumen Maintenance @ 25°C / 77°F**
      - Input Watts: 21, Initial: 1.00
      - Hours: 25,000, 50,000, 100,000
      - L70@25°C: 89,000
    - **L70 Lumen Maintenance @ 50°C / 122°F**
      - Input Watts: 21, Initial: 1.00
      - Hours: 25,000, 50,000, 100,000
      - L70@50°C: 78,000
    - **L80 Lumen Maintenance @ 40°C / 104°F**
      - Input Watts: 21, Initial: 1.00
      - Hours: 25,000, 50,000, 100,000
      - L80@40°C: 72,000

**Photometric Data**

- NHL-TBD-A-20W-41K-UNV
  - 70° Reflector
- NHL-TBD-B-20W-41K-UNV
  - 100° Reflector
- NHL-TBD-D-20W-41K-UNV
  - 30° Reflector

**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.