



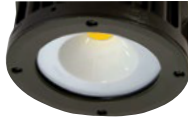
# NHL-TBD

## LED Up or Down Turbine LED Wall Cylinder

**L70**  
25°C **89,000 Hours**



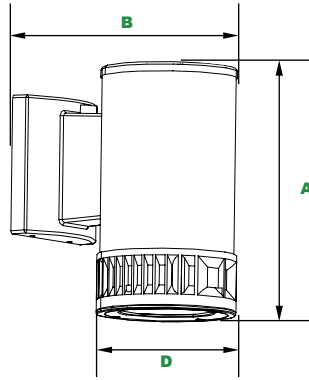
Shown with "B" Wide Optic



Shown with "A" Medium Optic



Shown with "D" Narrow Optic



### Dimensions

<b>Diameter (D)</b>	5 3/4" (146mm)
<b>Length (B)</b>	8 7/8" (226mm)
<b>Height (A)</b>	10 1/4" (260mm)

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, 50/60Hz; 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 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 2 for Projected Lumen Maintenance Table.

### Order Information Example:

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

NHL-TBD							
Model	Optics	LED	Wattage	Driver	CCT	Color	Options
NHL-TBD= LED Up or Down Wall Cylinder	A=70° Reflector B=100° Reflector D=30° Reflector		20W=1x20w	UNV= 120-277V	41K=4100K	Z=Bronze B=Black C=Custom (Consult Factory)	SF=Single Fuse DF=Double Fuse SP=Surge Protection PC=Button Photocell, 120-277VAC EM=Battery Backup, 90 Minutes

### Project Information:

Project Name: \_\_\_\_\_ Fixture Type: \_\_\_\_\_

Complete Catalog #: \_\_\_\_\_ Date: \_\_\_\_\_

Comments: \_\_\_\_\_

### Certification & Listings:



Specifications subject to change without notice. Rev. 110918

### New Horizon Lighting

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[www.newhorizonlighting.com](http://www.newhorizonlighting.com)

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.

### Accessories & Replacement Parts:

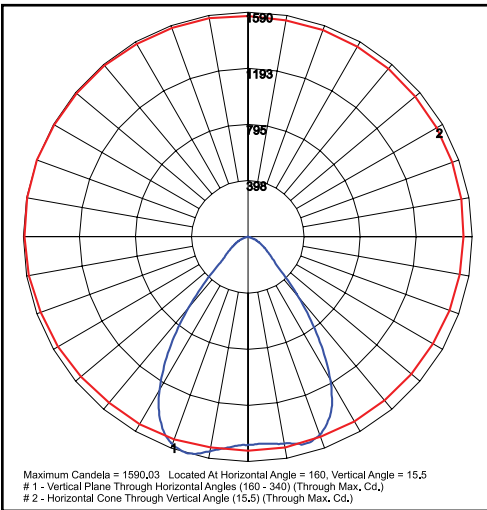
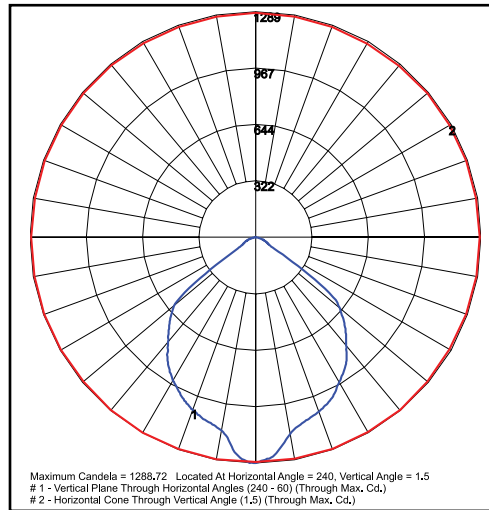
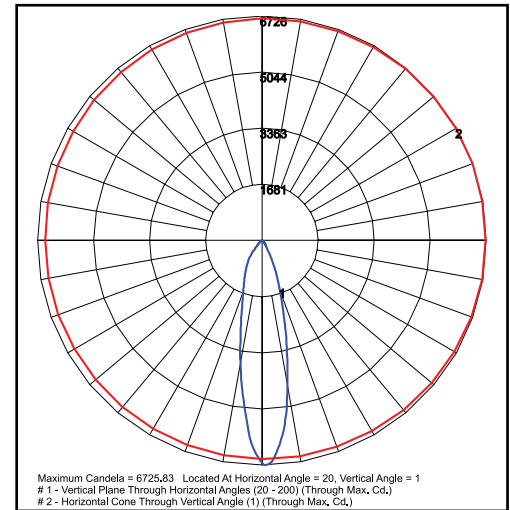

**PC**

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

**PC** 120-277VAC Button Photocell

For Replacement Battery Backup, see the LEPEG LED Battery Backup Specification Sheet.

### 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

### Photometric Performance

**4100 CCT 80 CRI**

LED Board Watts	Drive Current (mA)	Input Watts	Beam	Lumens	LPW	B	U	G
LED 20W	525	21	A Medium	2,309	110	2	1	0
			B Wide	2,364	113	1	1	0
			D Narrow	2,209	105	2	1	0

### Projected Lumen Maintenance

Data shown for 4100 CCT		Compare to MH				
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 25°C
L70 Lumen Maintenance @ 25°C / 77°F	21	1.00	0.92	0.83	0.66	89,000
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 50°C
L70 Lumen Maintenance @ 50°C / 122°F	21	1.00	0.90	0.81	0.62	78,000
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L80@ 40°C
L80 Lumen Maintenance @ 40°C / 104°F	21	1.00	0.93	0.86	0.72	72,000

**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.