



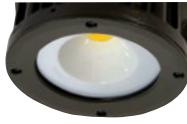
NHL-TBUD

L70
25°C **89,000 Hours**

LED Up/Down Turbine LED Wall Cylinder



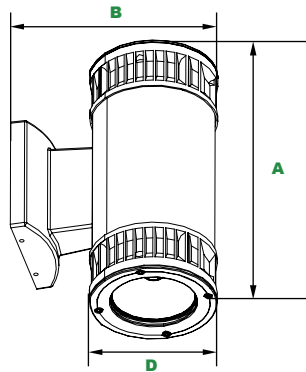
Shown with "B" Wide Optic



Shown with "A" Medium Optic



Shown with "D" Narrow Optic



Dimensions

| | |
|---------------------|-----------------|
| Diameter (D) | 5 1/2" (146mm) |
| Length (B) | 8 1/4" (226mm) |
| Height (A) | 12 1/2" (316mm) |

The NHL-TBUD Turbine architectural wall cylinder provides up/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 Lenses

Reflector:

Wide, Medium and Narrow Distributions

Mounting Options:

Mount Over a 4" Recessed Outlet Box.

Wattage:

COB: 40w, System: 40w; (100w 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 2 for Projected Lumen Maintenance Table.

Order Information Example: NHL-TBUD-A-40W-UNV-41K-Z

| NHL-TBUD | | | | | | | |
|-------------------------------------|---|-----|---------|---------------------------------|-----------|--|--|
| Model | Optics | LED | Wattage | Driver | CCT | Color | Options |
| NHL-TBUD= LED Up/Down Wall Cylinder | A=70° Up/70° Down B=100° Up/100° Down C=70° Up/100° Down D=30° Up/30° Down E=30° Up/100° Down F=30° Up/70° Down G=100° Up/30° Down H=100° Up/70° Down I=70° Up/30° Down | | 40W=40w | UNV= 120-277V 480V= 347-480V | 41K=4100K | Z=Bronze B=Black C=Custom (Consult Factory) | SF=Single Fuse (120-277V Only) DF=Double Fuse (120-277V Only) SP=Surge Protection PC=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

Accessories & Replacement Parts:

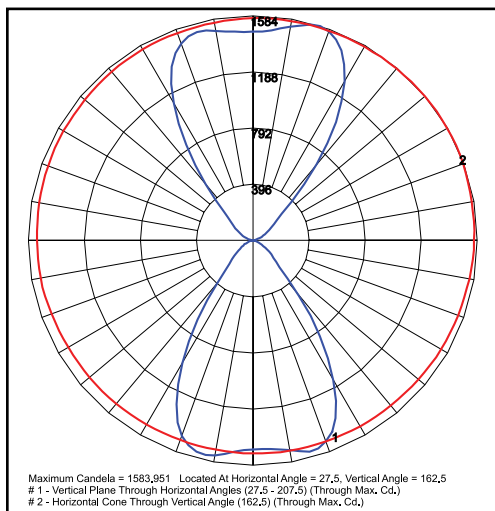
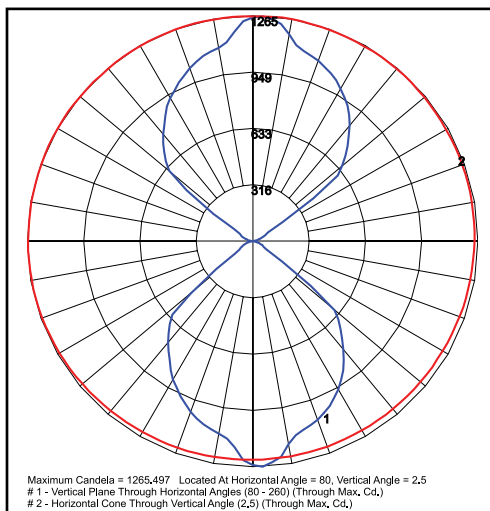
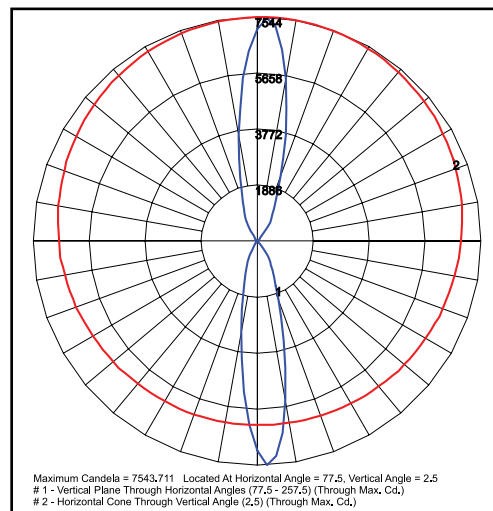

PC

Replacement Parts (Order Separately, Field Installed)

PC 120-277VAC Photocell

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

Photometric Data


NHL-TBUD-A-40W-41K*UNV-Z
70° Up/70° Down Optic

NHL-TBUD-B-40W-41K*UNV-Z
100° Up/100° Down Optic

NHL-TBUD-D-40W-41K*UNV-Z
30° Up/30° Down Optic

Photometric Performance

| LED Board Watts | Drive Current (mA) | Input Watts | 4100 CCT 80 CRI | | | | | | |
|-----------------|--------------------|-------------|-----------------|--------|-----|---|---|---|--|
| | | | Beam | Lumens | LPW | B | U | G | |
| LED 40w | 525 | 40 | A Medium | 4,398 | 110 | 2 | 5 | 0 | |
| | | | B Wide | 4,577 | 114 | 1 | 5 | 0 | |
| | | | D Narrow | 4,344 | 109 | 2 | 5 | 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 | 40 | 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 | 40 | 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 | 40 | 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.