LEDALUX®

# WCTRSQ & WCTRSC2
## Up & Down Turbine LED Wall Cylinder

eZ SPEC

CATALOG NUMBER:

NOTES:

FIXTURE TYPE:

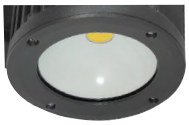
PROJECT:

**L70** 25°C **89,000 Hours**

BUY AMERICAN ACT COMPLIANT

TAA COMPLIANT

Shown with C3 COB and "A" Medium Optic



Shown with "B" C3 Wide Optic

Shown with "D" Narrow Optic

## PRODUCT DESCRIPTION

The WCTRSQ & WCTRSC3 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.

## FEATURES

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

**Listing & Ratings:**
ETL: 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.

**LED:**
Cool Copper COB (20W)
EasyLED Array (16W)

**Wattage:**
20 Watt COB, 21 Watt Input
16 Watt Array, 17 Watt Input

**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. Please consult factory for remote direct wired interface of 1-10V Dimming, fixtures are not wired for remote control connection standard and may not be available in this configuration. Fixtures are NOT designed for use with line voltage dimmers.

**Warranty:**
5-Year Warranty for -40°C to +50°C Environment.
See Page 3 for Projected Lumen Maintenance Table.

## ORDERING INFORMATION

**EXAMPLE: WCTRSMQ1X16U3K-Z**

| Model | Color | Options |
|---|---|---|
| **Turbine LED Down Wall Cylinder**<br>**WCTRSWQ1X16U3K** =Turbine LED Down Wall Cylinder, 16W, Wide 100° Beam, 120-277V, 3K<br>**WCTRSMQ1X16U3K** =Turbine LED Down Wall Cylinder, 16W, Medium 70° Beam, 120-277V, 3K<br>**WCTRSNQ1X16U3K** =Turbine LED Down Wall Cylinder, 16W, Narrow 30° Beam, 120-277V, 3K<br>**WCTRSWQ1X16U4K** =Turbine LED Down Wall Cylinder, 16W, Wide 100° Beam, 120-277V, 4K<br>**WCTRSMQ1X16U4K** =Turbine LED Down Wall Cylinder, 16W, Medium 70° Beam, 120-277V, 4K<br>**WCTRSNQ1X16U4K** =Turbine LED Down Wall Cylinder, 16W, Narrow 30° Beam, 120-277V, 4K<br>**WCTRSWQ1X16U5K** =Turbine LED Down Wall Cylinder, 16W, Wide 100° Beam, 120-277V, 5K<br>**WCTRSMQ1X16U5K** =Turbine LED Down Wall Cylinder, 16W, Medium 70° Beam, 120-277V, 5K<br>**WCTRSNQ1X16U5K** =Turbine LED Down Wall Cylinder, 16W, Narrow 30° Beam, 120-277V, 5K<br>**WCTRSUWQ1X16U3K** =Turbine LED Up Wall Cylinder, 16W, Wide 100° Beam, 120-277V, 3K<br>**WCTRSUMQ1X16U3K** =Turbine LED Up Wall Cylinder, 16W, Medium 70° Beam, 120-277V, 3K<br>**WCTRSUNQ1X16U3K** =Turbine LED Up Wall Cylinder, 16W, Narrow 30° Beam, 120-277V, 3K<br>**WCTRSUWQ1X16U4K** =Turbine LED Up Wall Cylinder, 16W, Wide 100° Beam, 120-277V, 4K<br>**WCTRSUMQ1X16U4K** =Turbine LED Up Wall Cylinder, 16W, Medium 70° Beam, 120-277V, 4K<br>**WCTRSUNQ1X16U4K** =Turbine LED Up Wall Cylinder, 16W, Narrow 30° Beam, 120-277V, 4K<br>**WCTRSUWQ1X16U5K** =Turbine LED Up Wall Cylinder, 16W, Wide 100° Beam, 120-277V, 5K<br>**WCTRSUMQ1X16U5K** =Turbine LED Up Wall Cylinder, 16W, Medium 70° Beam, 120-277V, 5K<br>**WCTRSUNQ1X16U5K** =Turbine LED Up Wall Cylinder, 16W, Narrow 30° Beam, 120-277V, 5K<br>**Turbine C3 LED Down Wall Cylinder**<br>**WCTRSBC31X20U41K** =Turbine C3 LED Down Wall Cylinder, 20W, Wide 100° Beam, 120-277V, 41K<br>**WCTRSBUC31X20U41K** =Turbine C3 LED Up Wall Cylinder, 20W, Wide 100° Beam, 120-277V, 41K<br>**WCTRSDC31X20U41K** =Turbine C3 LED Down Wall Cylinder, 20W, Narrow 30° Beam, 120-277V, 41K<br>**WCTRSDUC31X20U41K** =Turbine C3 LED Up Wall Cylinder, 20W, Narrow 30° Beam, 120-277V, 41K | **Z** =Bronze<br>**B** =Black<br>**C** =Custom (Consult Factory) | **SF** =Single Fuse<br>**DF** =Double Fuse<br>**SP** =Surge Protection<br>**PC3** =Photocell, 120-277VAC<br>**BU** =Battery Backup, 90 Minutes<br>**BUC** =Cold Start Battery Backup, -20°C, 90 Minutes |

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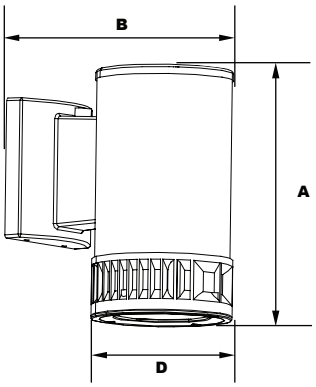
EZ SPEC

L70 25°C 89,000 Hours

## DIMENSIONS




### Dimensions

| | |
|---|---|
| **Diameter (D)** | 5¾″ (146mm) |
| **Length (B)** | 8⅞″ (226mm) |
| **Height (A)** | 10¼″ (260mm) |

## ACCESSORIES & REPLACEMENT PARTS

| Replacement Parts (Order Separately, Field Installed) | |
|---|---|
| P18103 | 120-277VAC Photocell |
| For Replacement Battery Backup, see the LED Battery Backup Specification Sheet. | |

**P18103**

## PHOTOMETRIC PERFORMANCE

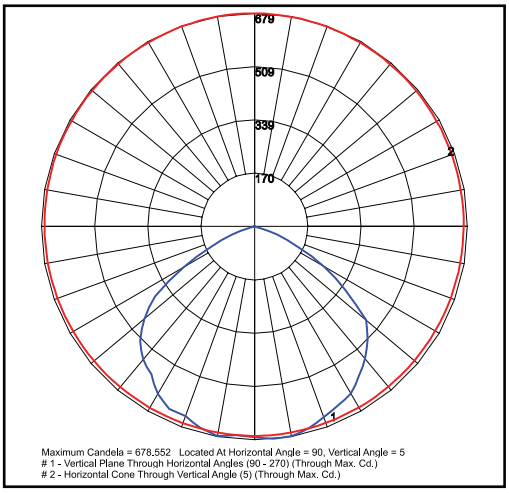
| | | 5000 CCT 80 CRI | 4000 CCT 80 CRI | 3000 CCT 80 CRI | BUG Rating | | |
|---|---|---|---|---|---|---|---|
| **Wattage (Catalog Logic)** | **Optic** | **Lumens** | **Lumens** | **Lumens** | **B** | **U** | **G** |
| **WCTRSQ1X16** | W - 112° Wide | 1,876 | 1,807 | 1,751 | 1 | 0 | 0 |
| | M - 65° Medium | 1,870 | 1,801 | 1,745 | 1 | 0 | 1 |
| | N - 32° Narrow | 2,234 | 2,152 | 2,085 | 2 | 0 | 0 |
| **WCTRSC31X20** | B - 100° Wide | | 2,364 | | 1 | 0 | 0 |
| **WCTRSC31X20** | D - 30° Narrow | | 2,209 | | 2 | 0 | 0 |

## PROJECTED LUMEN MAINTENANCE

| Data Shown for All Models | | | Compare to MH | | | |
|---|---|---|---|---|---|---|
| **TM-21-11** | **Input Watts** | **Initial** | **25,000 Hrs** | **50,000 Hrs** | **100,000 Hrs** | **Calculated LED Life** |
| **L70 Lumen Maintenance @ 25°C / 77°F** | 17-21 | 1.00 | 0.92 | 0.83 | 0.66 | 89,000 |
| **L70 Lumen Maintenance @ 50°C / 122°F** | | 1.00 | 0.90 | 0.81 | 0.62 | 78,000 |
| **L80 Lumen Maintenance @ 40°C / 104°F** | | 1.00 | 0.93 | 0.86 | 0.72 | 72,000 |

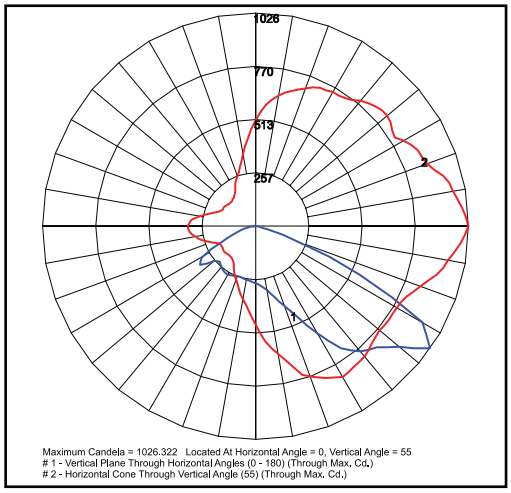
**NOTES:**
1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
2. Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.

## PHOTOMETRIC DATA



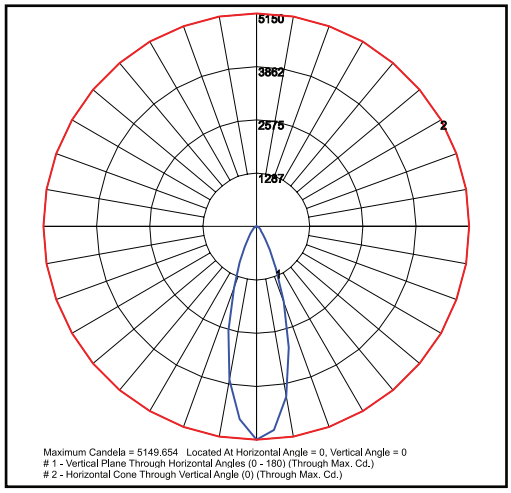

Maximum Candela = 678.552 Located At Horizontal Angle = 90, Vertical Angle = 5
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

**WCTRSUWQ1X16U5K**
**Wide 100° Beam**



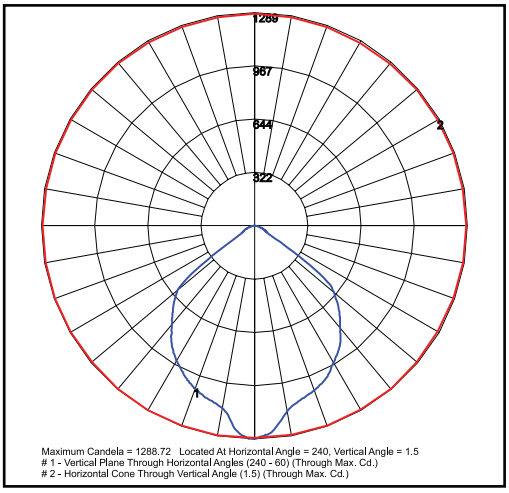

Maximum Candela = 1026.322 Located At Horizontal Angle = 0, Vertical Angle = 55
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

**WCTRSUMQ1X16U5K**
**Medium 70° Beam**



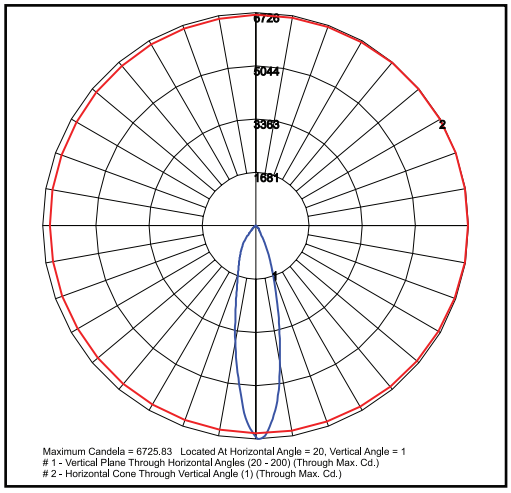

Maximum Candela = 5149.654 Located At Horizontal Angle = 0, Vertical Angle = 0
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

**WCTRSUNQ1X16U5K**
**Narrow 30° Beam**




Maximum Candela = 1288.72 Located At Horizontal Angle = 240, Vertical Angle = 1.5
# 1 - Vertical Plane Through Horizontal Angles (240 - 60) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (1.5) (Through Max. Cd.)

**WCTRSBC31X20U41K**
**Wide 100° Reflector**




Maximum Candela = 6725.83 Located At Horizontal Angle = 20, Vertical Angle = 1
# 1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)

**WCTRSDC31X20U41K**
**Narrow 30° Reflector**