gotham® | EVO®

Multiple Layers of Light

Luminaire Type:

Catalog Number:

Buy American

# General Illumination Surface Ceiling Cylinder with nTune

# 4"

OVERVIEW

## Feature Set

- Tunable White solutions (2700K-6500K, 3000K-5000K) reproduce natural light patterns and colors, complement materials, and support productivity.
- WARMDIM® Range (3000K-1800K) for relaxing; warm and comfortable when dimmed
- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
- 45° cutoff to source and source image
- Fixtures are damp location standard; wet location option (WL), covered ceiling, IP66 option available, covered ceiling not required.
- 70% lumen maintenance at 60,000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional
- Field configurable surface junction box conduit covers available
- 20 standard colors in textured and gloss finish; custom or RAL colors also available

## Distribution


## Superior Perfomance

| Nominal | 750 | 1000 | 1500 | 2000 | 2500 | 3000 |
|---|---|---|---|---|---|---|
| Delivered | 840 | 1012 | 1406 | 1872 | 2416 | 2878 |
| Wattage | 9 | 10 | 14 | 19 | 24 | 29 |
| Lumens per Watt | 92 | 97 | 100 | 101 | 100 | 98 |

*80 CRI, 3500K

COMPLEMENTARY PRODUCTS

## Coordinated Apertures | Multiple Layers of Light

General Illumination Layer | EVO

High Center Beam Layer | Incito

EVO + Incito — Multiple Layers of Light

**Core**


**Healthcare**


**Special Applications**




GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | gothamlighting.com

ORDERING INFORMATION

A+ Capable options indicated by this color background.

Luminaire Type:

Catalog Number:

**EXAMPLE: EV04SC TUWH RHYR/20 AR MWD LSS MVOLT JBX ZT DWHG**

| Series | | Dynamic Feature | | Dynamic Range[1] | | Lumens[2] | | Reflector Color | |
|---|---|---|---|---|---|---|---|---|---|
| EV04SC | EVO 4in Surface Ceiling Round Cylinder Open Downlight | TUWH | Tunable White | PROR/ | Productivity Range (3000K-5000K) | 02 | 250 lumens | AR | Clear |
| | | WDIM | Warm Dimming | RHYR/ | Rhythm Range (2700K-6500K) | 05 | 500 lumens | PR | Pewter |
| | | | | HALR/ | Halogen Range (3000K-1800K) | 07 | 750 lumens | WTR | Wheat |
| | | | | | | 10 | 1000 lumens | GR | Gold |
| | | | | | | 15 | 1500 lumens | WR[3] | White painted |
| | | | | | | 20 | 2000 lumens | BR[3] | Black |
| | | | | | | 25 | 2500 lumens | WRAMF[3] | White Anti-microbial |
| | | | | | | 30 | 3000 lumens | BZR[3] | Dark Bronze painted |
| | | | | | | 35 | 3500 lumens | | |
| | | | | | | 40 | 4000 lumens | | |
| | | | | | | 45 | 4500 lumens | | |
| | | | | | | 50 | 5000 lumens | | |

| Distribution | | Reflector Finish | | Voltage | | Mounting | | Control Interface | |
|---|---|---|---|---|---|---|---|---|---|
| MD | Medium (0.9 s/mh) | LSS | Semi-specular | MVOLT | 120V - 277V | JBX | Integral driver, Recessed or Surface J-box | NLT[5] | nLight nTune interface |
| MWD | Medium wide (1.0 s/mh) | LD | Matte diffuse | 120 | 120V | JBXCC | Integral driver, Surface J-box with Conduit Covers | NLTER[5] | nLight nTune interface with emergency circuit |
| WD | Wide (1.2 s/mh) | LS | Specular | 277 | 277V | | | ZT | 0-10V dimming. Requires 2 controllers (one for intensity & one for CCT). |
| | | | | 347[4] | 347V | | | DALI | DALI logarithmic dimming to <1%. |

| Options | | Architectural Colors - Powder Paint[7] | | | |
|---|---|---|---|---|---|
| SF | Single fuse. Specify 120V or 277V. | DDB | Gloss Dark Bronze | DDBT | Textured Dark Bronze |
| 90CRI | High CRI (90+) | DBL | Matte Black | DBLB | Textured Black |
| WL[6] | Wet Location | DWH | Gloss White | DWHG | Textured White |
| IP66[6] | Lensed, IP66 rated | DMB | Matte Medium Bronze | DBNH | Textured Bronze |
| | | DNA | Gloss Natural Aluminum | DNAT | Textured Natural Aluminum |
| | | DSS | Gloss Sandstone | DSST | Textured Sandstone |
| | | DGC | Gloss Charcoal Grey | DSPD | Textured Dark Grey |
| | | DTG | Gloss Tennis Green | DSPE | Textured Green |
| | | DBR | Gloss Bright Red | DSPH | Textured Light Red |
| | | DSB | Gloss Steel Blue | DWHAMF | Gloss White with Anti-microbial finish |

**ACCESSORIES —order as separate catalog numbers (shipped separately)**

| | |
|---|---|
| CYLJBOXADPT 4SQ2OCT __ | 4in Square J-box to 4in Octagonal J-box adaptor. Replace __ with Architectural Color or PRM for primed ready for field painting |

**ORDERING NOTES**

1. PROR and RHYR available only with TUWH. HALR available only with WDIM.
2. Nominal lumen values when tested at 3500K.
3. Not available with finishes.
4. Factory supplied step down transformer must be remote mounted. Access required to location of remote mounted device.
5. TUWH + NLT/NLTER requires RGH mounting and power from nLight network bridge or nPS 80. WDIM + NLT/NLTER available factory installed with RGH; nLight field installed with other mounting types. Access required to location of remote mounted.
6. Not available with JBXCC.
7. For details on RAL and Custom colors please see Architectural colors.

SPECIFICATIONS

### Optical Assembly
Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from below the ceiling.
Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top down flash characteristic for superior glare control.

### Electrical
The luminaire shall operate from a 50 or 60 Hz ±3 Hz AC line over a voltage ranging from 120 VAC to 277 VAC.
The fluctuations of line voltage shall have no visible effect on the luminous output.
The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.
Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.
Input wires shall be 18AWG, 300V minimum solid copper.

### Controls
Tunable white nTune™ is an all-digital light color temperature control within an nLight enabled luminaire.
nTune™ allows color temperature settings through the Productivity Range of 3000K to 5000K or Rhythm Range of 2700K to 6500K.
Refer to nLight Programming User's Guide for instructions on customizing your application with SensorView™.

### Dimming
The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.

### Construction
Heaving-gauge aluminum construction.
Extruded body with flangeless reflector allows flow-through passive thermal management.
Surface ceiling mount for direct installation to 4" recessed or surface octagonal or square junction box.
Optional field configurable conduit covers available. Conduit covers match cylinder in finish and diameter.
Recessed gear box available for driver above ceiling, nLight, or battery pack options.

### Listings
Fixtures are CSA Certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, damp location standard; wet location covered ceiling optional (WL).

### Photometrics
LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.
Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 6,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by the center of the quadrangles defined in ANSI C78.377-2015.

### Buy American
This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT.
Please refer to www.acuitybrands.com/buy-american for additional information.

### Buy American
This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT.
Please refer to www.acuitybrands.com/buy-american for additional information.

### Warranty
5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

### Note:
Actual performance may differ as a result of end user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.

## A+ Capable Luminaire
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.
- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight® control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.
*See ordering tree for details

| Driver Default Dimming Curve | | | |
|---|---|---|---|
| Nomenclature | Min Dimming | Driver Dim Curve | Control Dim Curve |
| ZT | 0.1% | Linear | Linear/Logarithmic |
| DALI | 0.1% | Linear | Linear/Logarithmic |

| Reflector Finish Multiplier | |
|---|---|
| Reflector Finish | Multiplier |
| LS - Specular | 1 |
| LSS - Semi Specular | 0.956 |
| WR - White | 0.87 |
| LD - Matte Diffuse | 0.85 |
| BR - Black | 0.73 |
| BZR - Bronze | 0.73 |

| Distributions | | |
|---|---|---|
| Nomenclature | Beam Angle | Field Angle |
| MD | 54 | 82 |
| MWD | 67 | 89 |
| WD | 71 | 92 |

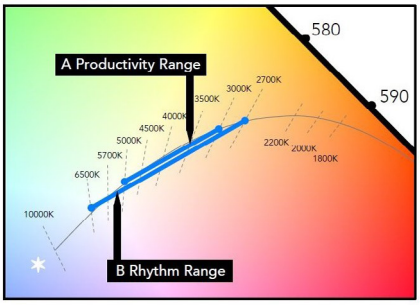
| J-box Compatibility Matrix | | Cylinder Configurations | | |
|---|---|---|---|---|
| | | JBX | JBX w/EDXB Driver | JBXCC |
| Recommended J-box (by others) | 4" Octagonal 4x4x1.5 deep" | ✓ | ✗ | ✓ |
| | 4" Octagonal 4x4x2.125 deep | ✓ | ✓ | ✗ |
| | 4" Square 4x4x1.5 deep | ✓ *with adaptor plate accessory | ✗ | ✗ |

| Distributions | |
|---|---|
| Distribution | Beam |
| MD | 51 |
| MWD | 57 |
| WD | 73 |

## Standard Architectural Color Options for Cylinder Bodies

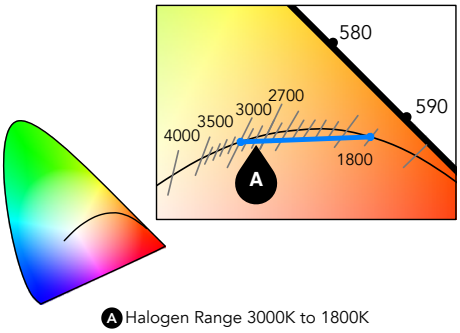

*NOTE: These colors were carefully reproduced to give as true a depiction as possible of finished product color. Some colors, however, may vary slightly from actual appearance due to display/printing variations and limitations. Please always contact a Gotham representative for an accurate paint chip sample.*

## MAINSTREAM DYNAMIC TUNABLE WHITE WITH NTUNE TECHNOLOGY




A Productivity Range 3000K to 5000K

B Rhythm Range 2700K to 6500K




A Halogen Range 3000K to 1800K

Tunable white nTune™ is an all digital light color temperature control wihin an nLight enabled luminaire. This brings tunable white lighting control into the mainstream with repeatable, consistent results in an economical luminaire form and system already familiar to schools. Designers and facility operators are granted the freedom to tie scenes to specific activities or to complement colors or materials within a visual environment. nTune™ allows color temperature settings through the Productivity Range of 3000K to 5000K or Rhythm Range of 2700K to 6500K. Refer to nLight Programming User's Guide for instructions on customizing to your applicaton with SensorView™.

**TUNABLE WHITE GPHD**
**Gamut**: One dimensional warm-Cool
**Path**: Direct 3000K to 5000K (Productivity Range) or 2700K to 6500K (Rhythm Range)
**Handle**: Two Natural Language Handles: Intensity and CCT
**Data**: nLight with nTune technology for both handles of control

### How to Estimate Delivered Lumens in Emergency Mode

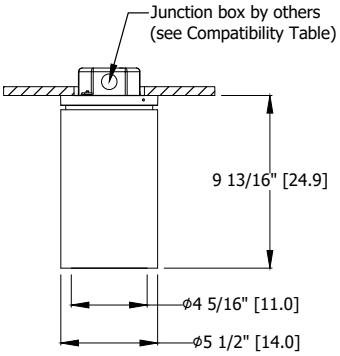
**Delivered Lumens = 1.25 x P x LPW**

P = Output power of emergency driver. P = 10W for PS1055CP

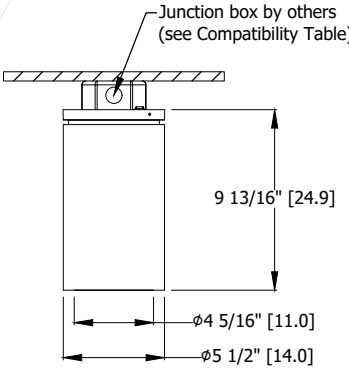
LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

DIMENSIONAL DATA

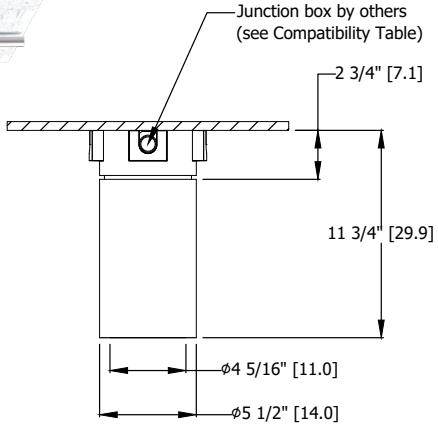
## JBX Recessed J-Box




## JBX Surface J-Box

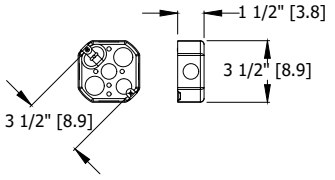



## JBXCC Surface J-Box with Conduit Covers

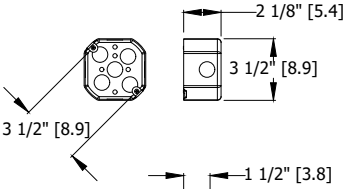



## Junction Box Dimensions (by others)

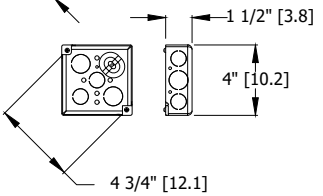
4" Octagonal J-Box, 1 1/2" Deep



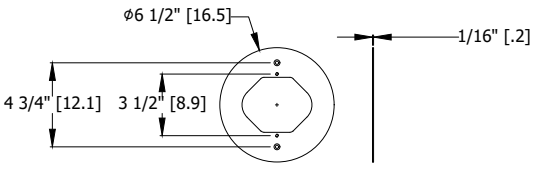

4" Octagonal J-Box, 2 1/8" Deep



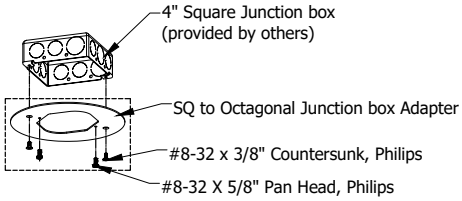

4" Square J-Box, 1 1/2" Deep

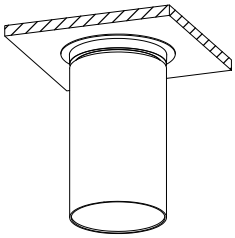



## Cylinder Adapter Plate




Includes 2 mounting screws



*Dimensions in inches [centimeters]





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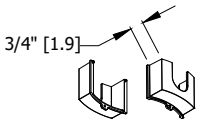
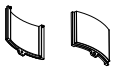
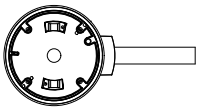
## Conduit Feed Examples and Keys




Conduit Key
(4) provided with each,
for use with 1/2" or 3/4" conduit

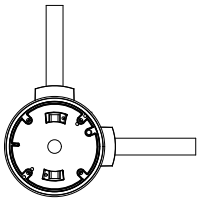


Blank Key
(4) provided with each

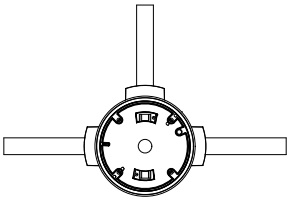


Single Conduit Feed

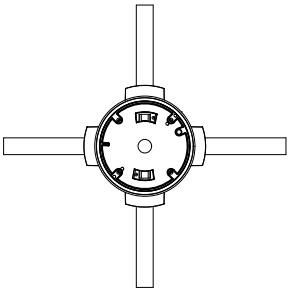
Double 180° conduit



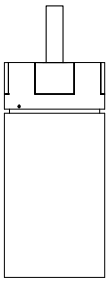
Double 90°conduit



Triple 0°, 90° & 180° conduit

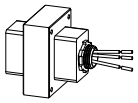


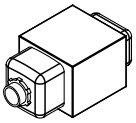
Quad 0°, 90°, 180°, & 270° conduit

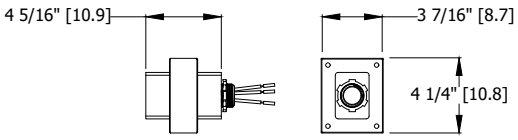


Top conduit feed

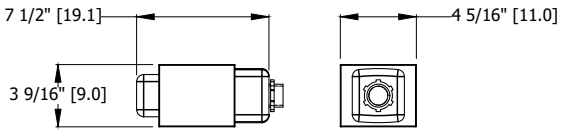
## 347V Stepdown Transformer








347 Transformer:
Up to 6000LM
Install to accessible
junction box by others

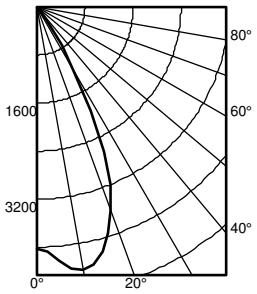



347 Transformer:
8000LM and up
Install to accessible
junction box by others

*Dimensions in inches [centimeters]

## EV04 TUWH RHYR /30 4AR LS CRI80 2700K

INPUT WATTS: 29.3, DELIVERED LUMENS: 3105, LM/W=105.9 , 0.80 S/MH, TEST NO. 19-032-01P61




| Ave | Lumens |
|---|---|
| 0 | 4032 |
| 5 | 4248 |
| 15 | 4209 |
| 25 | 2659 |
| 35 | 429 |
| 45 | 81 |
| 55 | 5 |
| 65 | 2 |
| 75 | 1 |
| 85 | 0 |
| 90 | 0 |

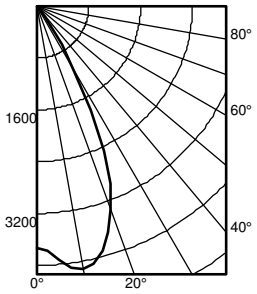
| Zone | Lumens | % Lamp |
|---|---|---|
| 0° - 30° | 2721.8 | 87.7 |
| 0° - 40° | 3039.0 | 97.9 |
| 0° - 60° | 3101.5 | 99.9 |
| 0° - 90° | 3105.0 | 100.0 |
| 90° - 180° | 0.0 | 0.0 |
| 0° - 180° | 3105.0 | *100.0 |
| *Efficiency | | |

| pf / pc / pw | 80% | | | 70% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|
| | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 112 | 109 | 107 | 109 | 107 | 106 | 105 | 104 | 102 |
| 2 | 105 | 101 | 98 | 103 | 100 | 97 | 100 | 97 | 95 |
| 3 | 99 | 94 | 91 | 97 | 93 | 90 | 95 | 91 | 89 |
| 4 | 93 | 88 | 85 | 92 | 88 | 84 | 90 | 86 | 83 |
| 5 | 88 | 83 | 79 | 87 | 83 | 79 | 86 | 82 | 78 |
| 6 | 84 | 78 | 75 | 83 | 78 | 74 | 82 | 77 | 74 |
| 7 | 80 | 74 | 70 | 79 | 74 | 70 | 78 | 73 | 70 |
| 8 | 76 | 70 | 67 | 75 | 70 | 67 | 74 | 70 | 66 |
| 9 | 72 | 67 | 63 | 72 | 67 | 63 | 71 | 66 | 63 |
| 10 | 69 | 64 | 60 | 68 | 63 | 60 | 68 | 63 | 60 |

| Mounting Height | Inital FC Center Beam | 50% beam - 49.7° Diameter | 50% beam - 49.7° FC | 10% beam - 66.1° Diameter | 10% beam - 66.1° FC |
|---|---|---|---|---|---|
| 8.0 | 133.3 | 5.1 | 66.6 | 7.2 | 13.3 |
| 10.0 | 71.7 | 6.9 | 35.8 | 9.8 | 7.2 |
| 12.0 | 44.7 | 8.8 | 22.3 | 12.4 | 4.5 |
| 14.0 | 30.5 | 10.6 | 15.2 | 15.0 | 3.0 |
| 16.0 | 22.1 | 12.5 | 11.1 | 17.6 | 2.2 |

## EV04 TUWH RHYR /30 4AR LS CRI80 3500K

INPUT WATTS: 29.3, DELIVERED LUMENS: 2880, LM/W=98.3 , 0.80S S/MH, TEST NO. 19-032-01P63




| Ave | Lumens |
|---|---|
| 0 | 3740 |
| 5 | 3941 |
| 15 | 3904 |
| 25 | 2466 |
| 35 | 398 |
| 45 | 75 |
| 55 | 5 |
| 65 | 2 |
| 75 | 1 |
| 85 | 0 |
| 90 | 0 |

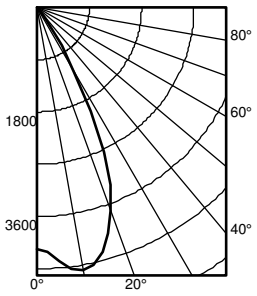
| Zone | Lumens | % Lamp |
|---|---|---|
| 0° - 30° | 2524.6 | 87.7 |
| 0° - 40° | 2818.8 | 97.9 |
| 0° - 60° | 2876.8 | 99.9 |
| 0° - 90° | 2880.1 | 100.0 |
| 90° - 180° | 0.0 | 0.0 |
| 0° - 180° | 2880.1 | *100.0 |
| *Efficiency | | |

| pf / pc / pw | 80% | | | 70% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|
| | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 112 | 109 | 107 | 109 | 107 | 106 | 105 | 104 | 102 |
| 2 | 105 | 101 | 98 | 103 | 100 | 97 | 100 | 97 | 95 |
| 3 | 99 | 94 | 91 | 97 | 93 | 90 | 95 | 91 | 89 |
| 4 | 93 | 88 | 85 | 92 | 88 | 84 | 90 | 86 | 83 |
| 5 | 88 | 83 | 79 | 87 | 83 | 79 | 86 | 82 | 78 |
| 6 | 84 | 78 | 75 | 83 | 78 | 74 | 82 | 77 | 74 |
| 7 | 80 | 74 | 70 | 79 | 74 | 70 | 78 | 73 | 70 |
| 8 | 76 | 70 | 67 | 75 | 70 | 67 | 74 | 70 | 66 |
| 9 | 72 | 67 | 63 | 72 | 67 | 63 | 71 | 66 | 63 |
| 10 | 69 | 64 | 60 | 68 | 63 | 60 | 68 | 63 | 60 |

| Mounting Height | Inital FC Center Beam | 50% beam - 49.7° Diameter | 50% beam - 49.7° FC | 10% beam - 66.1° Diameter | 10% beam - 66.1° FC |
|---|---|---|---|---|---|
| 8.0 | 123.6 | 5.1 | 61.8 | 7.2 | 12.4 |
| 10.0 | 66.5 | 6.9 | 33.2 | 9.8 | 6.6 |
| 12.0 | 41.4 | 8.8 | 20.7 | 12.4 | 4.1 |
| 14.0 | 28.3 | 10.6 | 14.1 | 15.0 | 2.8 |
| 16.0 | 20.5 | 12.5 | 10.3 | 17.6 | 2.1 |

## EV04 TUWH RHYR /30 4AR LS CRI80 6500K

INPUT WATTS: 29.3, DELIVERED LUMENS: 3208, LM/W=109.5 , 0.80 S/MH, TEST NO. 19-032-01P61




| Ave | Lumens |
|---|---|
| 0 | 4166 |
| 5 | 4389 |
| 15 | 4349 |
| 25 | 2747 |
| 35 | 443 |
| 45 | 84 |
| 55 | 5 |
| 65 | 2 |
| 75 | 1 |
| 85 | 0 |
| 90 | 0 |

| Zone | Lumens | % Lamp |
|---|---|---|
| 0° - 30° | 2812.2 | 87.7 |
| 0° - 40° | 3139.9 | 97.9 |
| 0° - 60° | 3204.4 | 99.9 |
| 0° - 90° | 3208.1 | 100.0 |
| 90° - 180° | 0.0 | 0.0 |
| 0° - 180° | 3208.1 | *100.0 |
| *Efficiency | | |

| pf / pc / pw | 80% | | | 70% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|
| | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 112 | 109 | 107 | 109 | 107 | 106 | 105 | 104 | 102 |
| 2 | 105 | 101 | 98 | 103 | 100 | 97 | 100 | 97 | 95 |
| 3 | 99 | 94 | 91 | 97 | 93 | 90 | 95 | 91 | 89 |
| 4 | 93 | 88 | 85 | 92 | 88 | 84 | 90 | 86 | 83 |
| 5 | 88 | 83 | 79 | 87 | 83 | 79 | 86 | 82 | 78 |
| 6 | 84 | 78 | 75 | 83 | 78 | 74 | 82 | 77 | 74 |
| 7 | 80 | 74 | 70 | 79 | 74 | 70 | 78 | 73 | 70 |
| 8 | 76 | 70 | 67 | 75 | 70 | 67 | 74 | 70 | 66 |
| 9 | 72 | 67 | 63 | 72 | 67 | 63 | 71 | 66 | 63 |
| 10 | 69 | 64 | 60 | 68 | 63 | 60 | 68 | 63 | 60 |

| Mounting Height | Inital FC Center Beam | 50% beam - 49.7° Diameter | 50% beam - 49.7° FC | 10% beam - 66.1° Diameter | 10% beam - 66.1° FC |
|---|---|---|---|---|---|
| 8.0 | 137.7 | 5.1 | 68.9 | 7.2 | 13.8 |
| 10.0 | 74.1 | 6.9 | 37.0 | 9.8 | 7.4 |
| 12.0 | 46.2 | 8.8 | 23.1 | 12.4 | 4.6 |
| 14.0 | 31.5 | 10.6 | 15.8 | 15.0 | 3.1 |
| 16.0 | 22.9 | 12.5 | 11.4 | 17.6 | 2.3 |

NLIGHT

**nLight®** The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

## nLight® Wired Control Accessories

*Order as separate catalog number. Visit nLight.*

| Wall Switches | Model Number |
|---|---|
| On/Off single pole | nPODM (color) |
| On/Off two pole | nPODM 2P (color) |
| On/Off & raise/lower single pole | nPOD DX (color) |
| On/Off & raise/lower two pole | nPODM 2P DX (color) |
| Graphic touchscreen | nPOD GFX (color) |
| **Photocell Controls** | |
| Dimming | nCM ADCX |

## nLight® Wired Control Accessories *(cont.)*

| Occupancy Sensors (PIR/dual tech) | Model Number |
|---|---|
| Small motion 360°, ceiling | nCM 9 / nCM PDT 9 |
| Large motion 360°, ceiling | nCM 10 / nCM PDT 10 |
| Wide View | nWV 16 / nWV PDT 16 |
| Wall switch with raise/lower | nWSX LV DX / nWSX PDT LV DX |
| **Cat-5 Cables (plenum rated)** | |
| 10', CAT5 | CAT5 10FT J1 |
| 15', CAT5 | CAT5 15FT J1 |

## Possibilites for nLight® wired

**Fixtures ordered *without* the NLT option**


**Fixtures ordered *with* the NLT option**