alphabet

| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

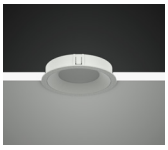
# NU1

## 1" Round Deep Regress Warm Dim

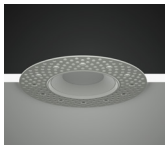
NSF AT airtight PR plenum rated wet rated

| 25° - 45° BEAM (Note: Specifications are subject to change without notice) | | | |
|---|---|---|---|
| 9mm COB PERFORMANCE DATA | | | |
| LED LIGHT ENGINE | NOMINAL DELIVERED LUMENS | DRIVE CURRENT | LED WATTAGE |
| 05LM | 440LM @30K/97CRI | 175mA | 6.5W |
| 07LM | 680LM @30K/97CRI | 275mA | 10W |
| Notes | Delivered lumens based on 45D optic with no lens, (see page 2) | | |





Trim



Trimless



Trimless Millwork

### FEATURES

- 3/4" bezel regress with 1/16" micro flange
- 25° - 45° optical beam control
- UGR < 19
- Up to 60 LPW
- Glare control, specialty optics, trim options, and custom finishes available
- Microban® antimicrobial finish available on all exposed painted surfaces

### DIMMING AND CONTROLS

- eldoLED flicker free 0-10V dimming to 0% and 1%
- eldoLED flicker free DALI 2 dimming to 0% and 1%
- Lutron Hi-lumen 2-Wire (Eco System) dimming to 0.1% and 1%
- Leading & trailing edge (Triac/ELV) dimming to 1%
- All driver offerings are remote with above ceiling access, see page 3 for details.
- Refer to DX remote panels for additional options.

### CONSTRUCTION

- High-grade die-cast and cold forged aluminum alloy assembly that has superior thermal and corrosion resistance properties.
- Shatter proof acrylic bezel lens
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/8" to 1-1/2", On-field thick ceiling adjustment

### LED

- Luminus Dim-to-warm COB: 97 CRI: SDCM = 3-step MacAdam Ellipse, Lumen Maintenance: $L_{70}$ > 54,000 hrs

### LISTING

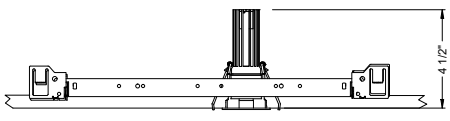
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

### ELECTRICAL

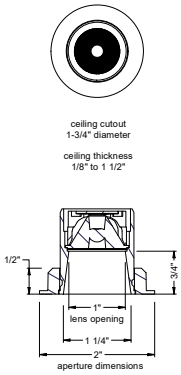
- Low voltage luminaire: 36Vdc nominal
- 05LM - 175mA
- 07LM - 275mA

### FIXTURE HEIGHT

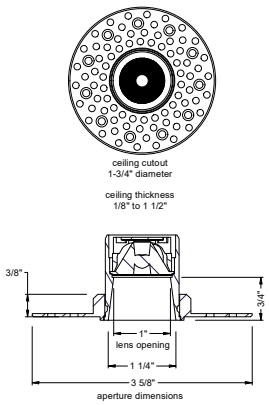
LED LIGHT ENGINE: 05LM - 07LM



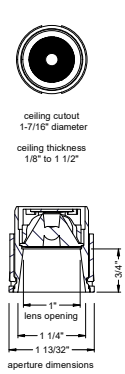

### TRIMMED




### TRIMLESS




### MILLWORK



alphabet

| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

## ORDERING CODE

| | | | |
|---|---|---|---|
| **SERIES** | **NU1** | NU1 | |
| **TYPE** | **RDDR** | round downlight deep regress | |
| | **RDTDR** | round downlight trimless deep regress | |
| | **RDTMWDR** | round downlight trimless millwork deep regress | |
| **LED** | **WD** | warm dim (Luminus) | |
| **DELIVERED LUMENS** | **05LM** | 440 lm | |
| | **07LM** | 680 lm | |
| | **Standard Configuration:** 3000K 97CRI 45D, **NL** | | |
| | **Calculated Delivered Lumens =** [Delivered Lumen Value] x [Optic Multiplier] x [Lens Multiplier] | | |
| **CCT** | **3018** | 3000K, dim to 1800K | |

CCT at Light Level (%LF)

| %LF | 07LM | 05LM |
|---|---|---|
| 100% | 3000 | 3000 |
| 50% | 3000 | 3000 |
| 25% | 2800 | 2800 |
| 10% | 2200 | 2200 |
| 5% | 1800 | 1800 |

| | | | |
|---|---|---|---|
| **CRI** | **97** | 97 CRI | |
| **OPTIC & LM MULTIPLIER** SEE PAGE 6 | **25D**[1] | 25 degrees | (0.88) |
| | **35D** | 35 degrees | (0.90) |
| | **40D** | 40 degrees | (0.92) |
| | **45D** | 45 degrees | (1.00) |
| **BEZEL LENS** SEE PAGE 5 | **NL**[2] | no lens | (1.00) |
| | **CL** | clear lens | (0.92) |
| | **DL** | diffused lens | (0.80) |
| | **HCL** | honeycomb louver | (0.58) |
| | **HET** | high efficiency textured lens, similar to Solite™ | (0.90) |
| | **SBL** | smoothing beam lens | (0.91) |
| | Maximum 2pcs of media per fixture. | | |
| **TRIM COLOR** SEE PAGE 5 | **BK** | black | |
| | **WH** | white | |
| | **MC** | matte chrome | |
| | **BZ** | bronze | |
| | **CC**[3] | custom color, consult factory for details | |
| | Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM. | | |
| | Not applicable to trimless option. Do not include in trimless ordering code. | | |
| **BEZEL COLOR** SEE PAGE 5 | **BK** | black | (0.98) |
| | **WH** | white | (1.00) |
| | **MC** | matte chrome | (0.99) |
| | **BZ** | bronze | (0.98) |
| | **CC**[3] | custom color, consult factory for details | |
| | Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM. | | |

## ORDERING CODE

| | | |
|---|---|---|
| **MOUNTING OPTIONS** SEE PAGE 7, 8 | **NC** | new construction plate |
| | **NCINH**[4] | new construction with ceiling fitting plate, IC rated, inherently protected |
| | **IC**[5, 6] | insulation contact housing |
| | **ICAT**[5, 6] | insulation contact/airtight housing |
| | **CP**[5, 6] | chicago plenum housing |
| | **RET** | retrofit, no ceiling plate |
| | **RETINH**[4] | retrofit, no ceiling fitting plate, IC rated, inherently protected |
| | remote driver only | |
| **VOLTAGE** | **LVL** | low voltage luminaire |
| **DIMMING** | **ND** | No driver included. See page 3 for remote driver options. |

## YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

**NU1 - RDDR - WD - 07LM - 3018 - 97 - 25D - HET - WH - WH - NC - LVL - ND**

### NOTES

1. 25D available with DL, HET lens option.
2. NL option does not meet requirements for AT/WET/NSF listings.
3. Custom set up fee plus minimum quantity required per color.
4. NCINH, RETINH available in 05LM.
5. IC/ICAT/CP not available in 07LM.
6. IC/ICAT/CP not available in RDTMWDR.



In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

alphabet

| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

| REMOTE DRIVER - ORDERING CODE | | |
|---|---|---|
| SERIES | DX-C | compact driver box |
| NUMBER OF DRIVERS | 1-5 | number of drivers, 1-5 |
| CURRENT | 175 | 175mA |
| | 275 | 275mA |
| VOLTAGE | 120 | 120V |
| | UNV | 120V-277V |
| DIMMING | DIM10 | eldoLED flicker free 0-10V dim to 1% |
| | DIM10Z | eldoLED flicker free 0-10V dim 0.1% |
| | DALI | eldoLED flicker free DALI-2 dim to 1% |
| | DALIZ | eldoLED flicker free DALI-2 dim to 0.1% |
| | DMX-RJ45[1] | DMX control dimming to 0.1% with RJ45 connection |
| | DMX-WL[1] | DMX-512/RDM dim to 0% with lead wire input |
| | DMX-XLR[1] | DMX-512/RDM dim to 0% with XLR input |
| | LUT | Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black |
| | LUTP | Lutron Hi-Lume Eco (fade) dim to 0.1% |
| | ELV1[2] | leading edge & trailing edge (Triac/ELV) dim to 1% |
| | NLT | nLight control interface: Cat-5/RJ45, dim to off |
| | CAS[3] | Casambi control with flicker free 1% dimming |
| | AWNR[4] | lutron athena wireless node |
| ELECTRICAL OPTIONS | EM7[5] | remote emergency battery backup, 90 minutes at 7 watts to LED, Remote TS |

| YOUR COMPLETED ORDERING CODE |
|---|
| |
| Follow the steps to specify your fixture, example: |
| **DX-C - 1 - 275 - UNV - DIM10 - EM7** |

**NOTES**

1. DMX available only in DX-C-1.
2. ELV available in 120V.
3. All drivers on single Casambi dimming circuit.
4. AWNR reference page 10. for product specification on Athena wireless node.
5. EM available only with DX-C-1. Box size same as DX-C-2, with one driver and one battery.

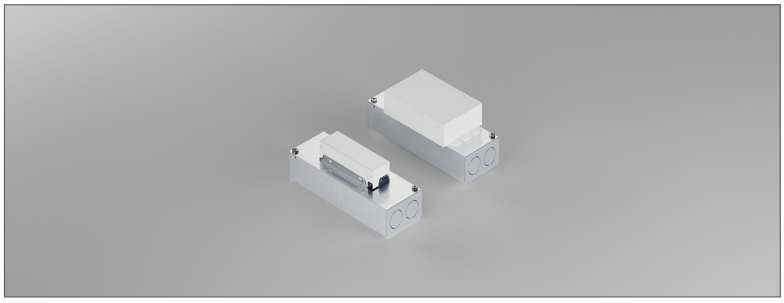
* EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

| 25° - 45° BEAM (Note: Specifications are subject to change without notice) | | |
|---|---|---|
| 9mm COB PERFORMANCE DATA | | |
| LED LIGHT ENGINE | NOMINAL DELIVERED LUMENS | SYSTEM WATTAGE |
| 05LM | 440LM @30K/97CRI | 8W |
| 07LM | 680LM @30K/97CRI | 12W |
| Notes | Delivered lumens based on 45D optic with no lens, (see page 2) | |

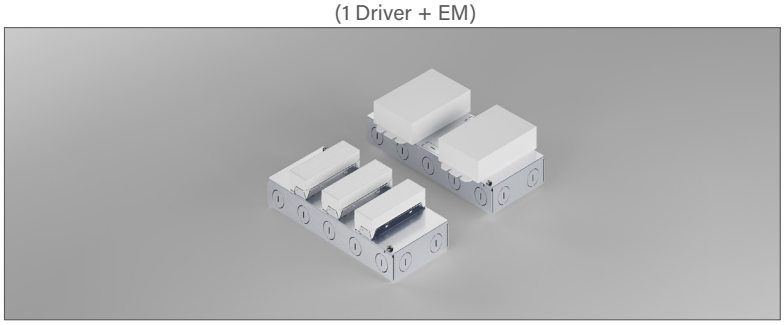
## ELECTRICAL/CONTROLS

- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)
- Minimum wire gauge approved mounting distance 18 AWG, 330 feet
- Maximum Remote mounting distance of EM driver shall be 50 feet

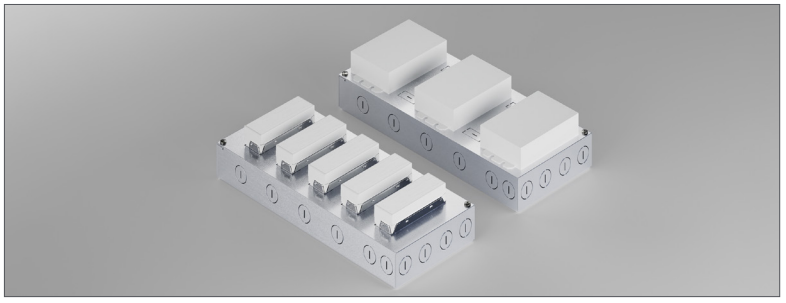
## REMOTE SINGLE DRIVER BOX



## REMOTE 2 TO 3 DRIVER BOX (2 Drivers for DIM10Z/DALI/DALIZ/LUT/LUTP) (1 Driver + EM)



## REMOTE 4 TO 5 DRIVER BOX (3 Drivers for DIM10Z/DALI/DALIZ/LUT/LUTP)

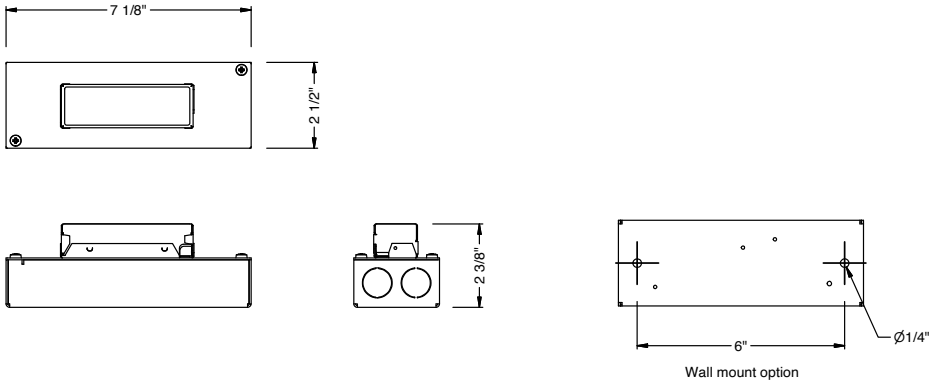


101236

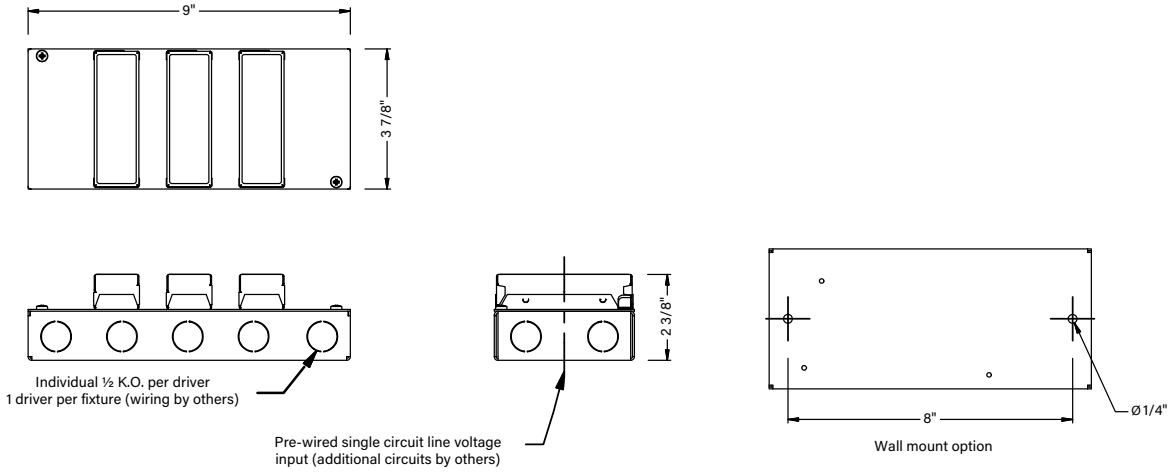
| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

## DRIVER BOXES

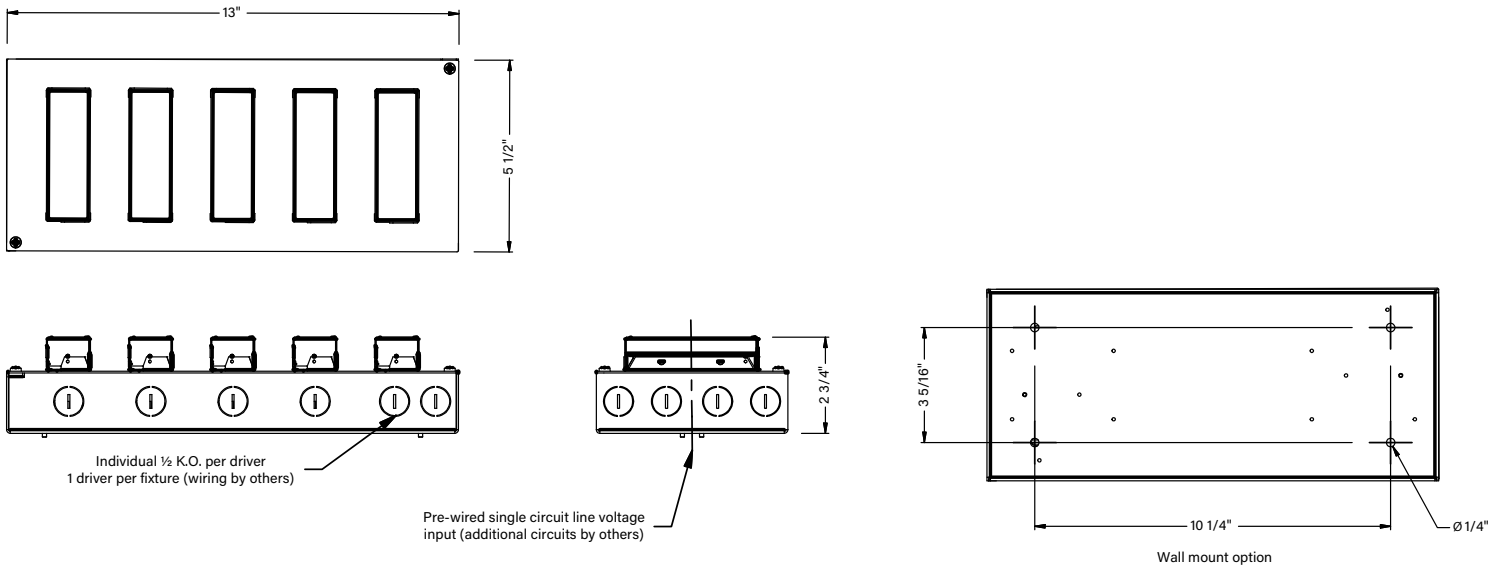
### REMOTE SINGLE DRIVER BOX




### REMOTE 2 TO 3 DRIVER BOX (2 Drivers for DIM10Z/DALI/DALIZ/LUT/LUTP)




### REMOTE 4 TO 5 DRIVER BOX (3 Drivers for DIM10Z/DALI/DALIZ/LUT/LUTP)




101236

| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

## TRIM OPTIONS

### TRIM/BEZEL COLORS




WH



MC



BK



BZ

## OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 05LM BK bezel fixtures, unless otherwise noted.

### HCL

Honeycomb Louver



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 35D | 30.5 | 11.1 |
| 40D | 34.9 | 15.5 |
| 45D | 35 | 16.5 |

### NL

No Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 35D | 35 | 15 |
| 40D | 40.5 | 17.1 |
| 45D | 44.2 | 20.3 |

### CL

Clear Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 35D | 34 | 14.5 |
| 40D | 40 | 16.7 |
| 45D | 43.1 | 20 |

### DL

Diffused Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 25D | 36.4 | 15.5 |
| 35D | 41.7 | 18.7 |
| 40D | 43.2 | 19.5 |
| 45D | 47.9 | 21.8 |

### HET

High Efficiency Textured Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 25D | 27.2 | 10.8 |
| 35D | 35 | 14.5 |
| 40D | 38.9 | 18 |
| 45D | 43.1 | 19.8 |

### SBL

Smoothing Beam Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 25D | 26.5 | 10.8 |
| 35D | 34 | 14.7 |
| 40D | 39.5 | 18 |
| 45D | 42.8 | 20 |

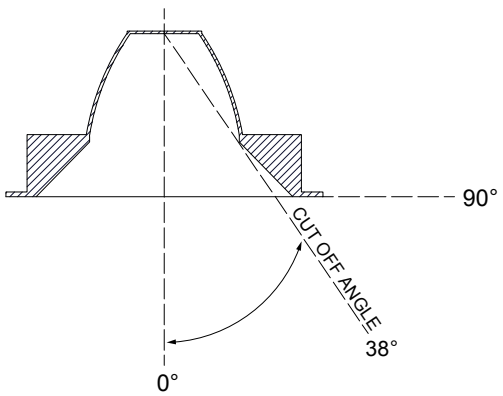
## GLARE CONTROL

### CUT-OFF ANGLE

Visual comfort is achieved with a lower cut-off angle due to improved glare control. The smaller the cut-off angle, the easier it is on the eye.

Alphabet downlights have been thoughtfully engineered to eliminate glare while still delivering functional illumination.

- Cut-off angle of NL and CL is 38°

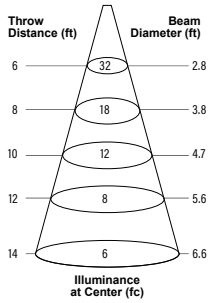


alphabet

| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

## PHOTOMETRIC DATA

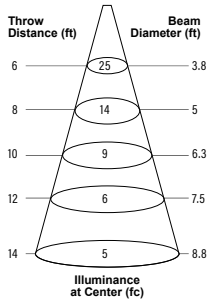
### 25D 25° WITH SBL LENS




| WATTS: 6.5 | LPW: 53.9 |
|---|---|
| LUMENS: 350 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 1153 |
| 5 | 1099 |
| 15 | 458 |
| 25 | 110 |
| 35 | 37 |
| 45 | 24 |

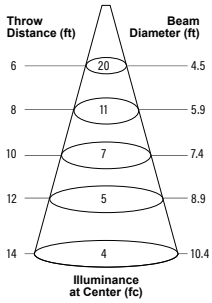
### 35D 35° WITH NO LENS




| WATTS: 6.5 | LPW: 60.7 |
|---|---|
| LUMENS: 394 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 886 |
| 5 | 846 |
| 15 | 549 |
| 25 | 174 |
| 35 | 45 |
| 45 | 27 |

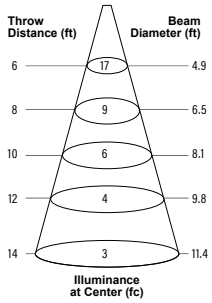
### 40D 41° WITH NO LENS




| WATTS: 6.5 | LPW: 62.2 |
|---|---|
| LUMENS: 405 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 702 |
| 5 | 691 |
| 15 | 537 |
| 25 | 218 |
| 35 | 61 |
| 45 | 28 |

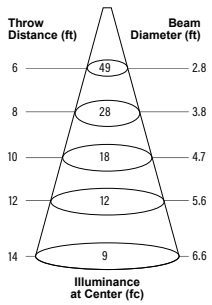
### 45D 44° WITH NO LENS




| WATTS: 6.5 | LPW: 68.4 |
|---|---|
| LUMENS: 444 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 599 |
| 5 | 583 |
| 15 | 454 |
| 25 | 248 |
| 35 | 118 |
| 45 | 48 |

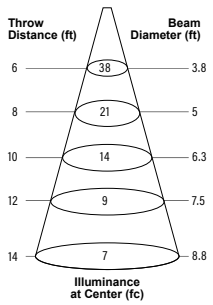
### 25D 25° WITH SBL LENS




| WATTS: 10 | LPW: 53.8 |
|---|---|
| LUMENS: 538 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 1772 |
| 5 | 1689 |
| 15 | 704 |
| 25 | 169 |
| 35 | 57 |
| 45 | 37 |

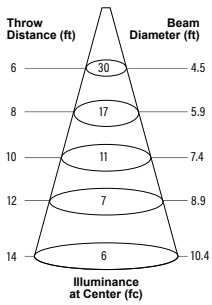
### 35D 35° WITH NO LENS




| WATTS: 10 | LPW: 60.6 |
|---|---|
| LUMENS: 606 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 1362 |
| 5 | 1301 |
| 15 | 844 |
| 25 | 267 |
| 35 | 69 |
| 45 | 41 |

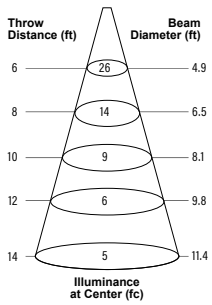
### 40D 41° WITH NO LENS




| WATTS: 10 | LPW: 62.2 |
|---|---|
| LUMENS: 622 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 1080 |
| 5 | 1063 |
| 15 | 826 |
| 25 | 335 |
| 35 | 94 |
| 45 | 43 |

### 45D 44° WITH NO LENS




| WATTS: 10 | LPW: 68.3 |
|---|---|
| LUMENS: 683 | CCT: 3000K |

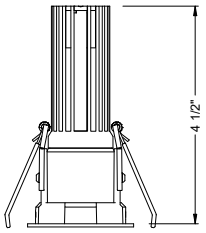
| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 921 |
| 5 | 896 |
| 15 | 698 |
| 25 | 382 |
| 35 | 181 |
| 45 | 73 |

| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

## MOUNTING OPTIONS

# FIXTURE HEIGHT

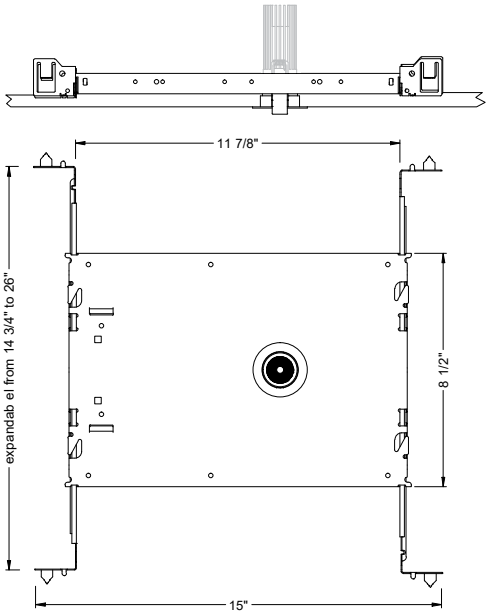
### LED LIGHT ENGINE: 05 - 07LM



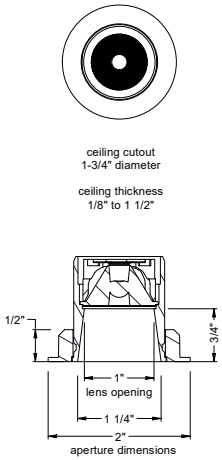

TRIMMED, TRIMLESS & MILLWORK

# NC - NEW CONSTRUCTION

### TRIM

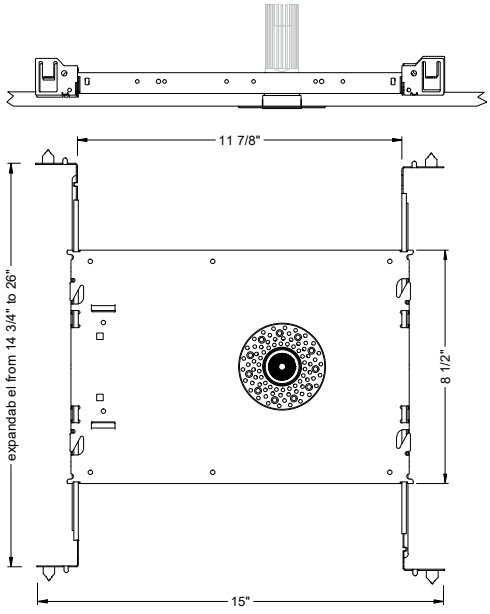



### TRIM

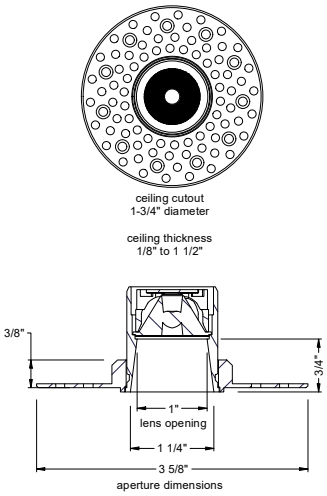



| ADDITIONAL MOUNTING INFO | |
|---|---|
| New Construction<br>Bar Hangers (included) | Mounting Length:<br>14-3/4" to 26" |
| Extension Kit p/n: K20266<br>(ordered separately,<br>1 per fixture) | *Extends a pair of Bar Hangers*<br>Total Mounting Length:<br>29" to 48" |

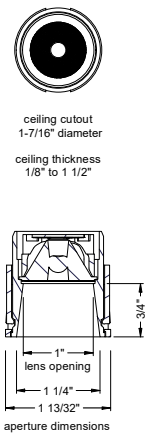
### TRIMLESS




### TRIMLESS




### TRIMLESS/MILLWORK

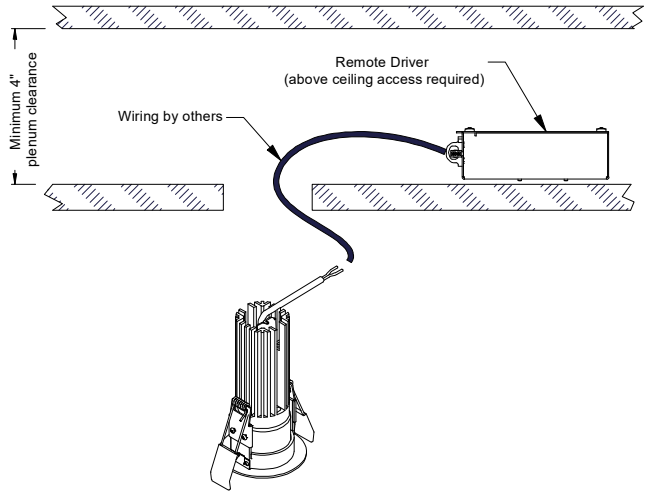



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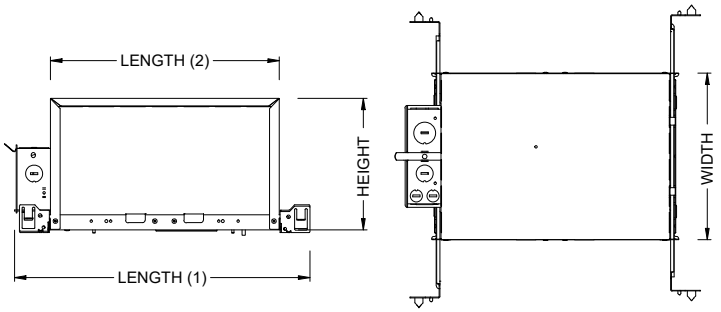
| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

## MOUNTING OPTIONS

### RET - RETRO
TRIM/TRIMLESS




### IC - INSULATION CONTACT HOUSING
### ICAT - INSULATION CONTACT / AIR TIGHT
### CP - CHICAGO PLENUM

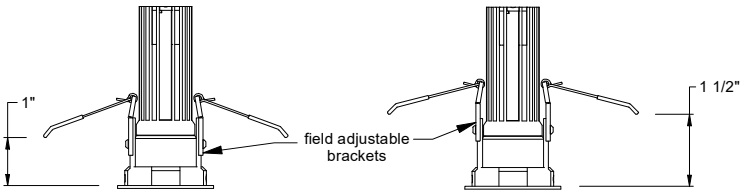



| BOX SIZE | L1 | L2 | W | H |
|---|---|---|---|---|
| A | 15 - 7/16" | 11 - 3/4" | 8 - 1/2" | 6 - 3/4" |

| RATINGS / CERTIFICATIONS | NC | RET | RET | ICAT | CP | NCIC | RETIC |
|---|---|---|---|---|---|---|---|
| TYPE NON-IC | ✔ | ✔ | | | | | |
| TYPE IC | | | ✔ | ✔ | ✔ | ✔ | ✔ |
| CHICAGO PLENUM (CCEA) | | | | | ✔ | | |
| SUITABLE FOR AIR HANDLING PLENUMS | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| REDUCED AIRFLOW ASTM E283 | | | | ✔ | ✔ | | |

| BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (12°-60°) | | | |
|---|---|---|---|
| LUMEN OUTPUT | BOX-A | | |
| | CP | IC | ICAT |
| 05LM | ✔ | ✔ | ✔ |
| 07LM | | | |

| CEILING THICKNESS | | | |
|---|---|---|---|
| FIXTURE TYPE | MOUNTING TYPE | | |
| | NC, IC, ICAT, CP, RET | NC, IC, ICAT, CP, RET | NC, IC, ICAT, CP, RET |
| | STANDARD CEILING THICKNESS | THICK CEILING THICKNESS | CEILING CUTOUT |
| TRIM | 1/8" to 1.0" | 1.0" to 1 1/2" | 1-3/4" round |
| TRIMLESS | 1/8" to 1.0" | 1.0" to 1 1/2" | 1-3/4" round |
| MILLWORK (TRIMLESS) | 1/8" to 1.0" | 1.0" to 1 1/2" | 1-7/16" round |




1/8" to 1" thick ceiling

1" to 1-1/2" thick ceiling

| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

## BATTERY OPTIONS

### EMERGENCY BATTERY

IOTA's ILB Battery Backups are UL Listed LED emergency drivers that allow the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the ILB switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains a battery, charger, and converter circuit in a single can. The Constant Power design of the ILB maintains the output wattage to the LED array even as the system voltage diminishes. UL 924 Listed for U.S. and Canada. UL 1310 Certified, Output Class 2 Compliant. Includes single-piece TBTS test switch and charge indicator accessory kit. For use with switched and unswitched fixtures, and includes Two-wire universal AC input. Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting Requirements. Rated for use in Plenum, Damp Location, Recessed Type IC, and Enclosed and Gasketed Luminares.

### REMOTE TEST SWITCH

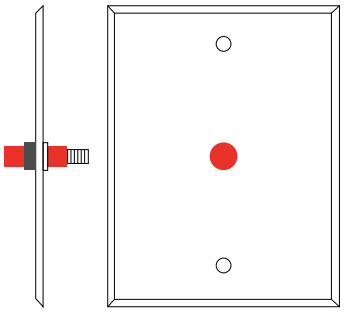
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

### EMERGENCY BATTERY ACCESS

Above ceiling access is recommended for ease of service, but LED Fixture Sizes of 4" and Larger are capable of below ceiling access. IC/ICAT/CP Box and ITS option require an access panel in the ceiling (or other form of access) adjacent to the installation location of the Emergency Battery.

### REMOTE LOCATION

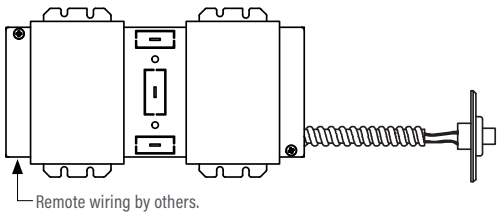
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



Remote Test Switch

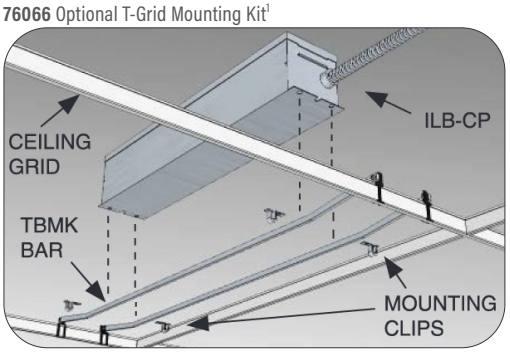
| EM MODE OUTPUT (DELIVERED LUMENS) | |
|---|---|
| LUMEN ORDERING CODE | EM7 |
| ALL OPTIONS ( 05LM TO 07LM) | 450 |
| **Notes:** Based on 30K, 97CRI | |

## REMOTE EM BATTERY (REMOTE TEST SWITCH)




**Accessory**

**76066** Optional T-Grid Mounting Kit[1]




1. Can be used with any of the Emergency Battery Backups. Must be ordered as a separate line item.

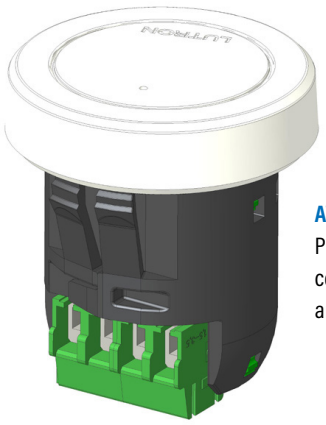


In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

# Athena Wireless Node

The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system.



Athena Wireless Node RF

OEM ADVANTAGE LUTRON

### AWNR

Plenum rated and can be installed above the ceiling for wireless control of a fixture without any impact on fixture aesthetics.

### FEATURES

- Enables individual, wireless control of each fixture in an Athena control system. Accommodates zone and control changes without rewiring.
- Installed at factory – no wiring required on-site. Fixture is ready to communicate wirelessly once power is connected.
- All drivers on the link are controlled as a single zone.

### REGULATORY APPROVALS

- cULus Listed (UL916)
- Complies with requirements for use in other spaces used for environmental air (plenums) per NEC® 2014 300.22(C)(3).
- FCC compliant with the limits for a Class B digital device.
- IC (Industry Canada)
- ANSI C137.1 0–10 V- Electronic Off

### POWER / LOAD

- IEC SELV/NEC® Class 2
- 1 Watt

### ENVIRONMENTAL

- Ambient operating temperature (immediate vicinity of Athena wireless node): **32 °F to 131 °F** (0 °C to 55 °C), 0% to 90% humidity.

### BATTERY OPTIONS

- For EM options please consult factory.

**Note:** Default behavior prior to programming

- Light level 100%
- Athena wireless node performs an unprogrammed startup sequence on every power up until the device is added to an Athena system.
- Each Athena wireless node should be installed within 25 ft (7.62 m) of two or more Athena wireless nodes or other Clear Connect – Type X devices.
- For Chicago plenum installations, the Athena wireless node may not be installed in the plenum space. It must be installed in the occupied space.

**For servicing the driver/j-box, access above ceiling is required.** (NC Mounting)

**IC/ICAT/CP not available in AWNR.**



In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.