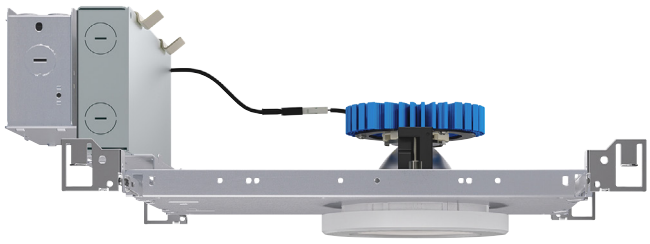
alphabet

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

# NU4

## 4" Round Downlight Tamper Resistant Tunable White

NSF AT airtight DF dead-front PR plenum rated wet rated



| 25° -110° BEAM (Note: Specifications are subject to change without notice) | | |
|---|---|---|
| 18mm COB PERFORMANCE DATA | | |
| LED LIGHT ENGINE | NOMINAL DELIVERED LUMENS | SYSTEM WATTAGE |
| 10LM | 990LM @35K/95CRI | 12W |
| 15LM | 1500LM @35K/95CRI | 17W |
| 20LM | 2010LM @35K/95CRI | 22W |
| 25LM | 2540LM @35K/95CRI | 27W |
| 30LM | 3020LM @35K/95CRI | 33W |
| Notes | Delivered lumens based on 30D optic with no lens, (see page 2) | |

| 20° BEAM (Note: Specifications are subject to change without notice) | | |
|---|---|---|
| 14mm COB PERFORMANCE DATA | | |
| LED LIGHT ENGINE | NOMINAL DELIVERED LUMENS | SYSTEM WATTAGE |
| 10LM | 1010LM @35K/95CRI | 13W |
| 15LM | 1490LM @35K/95CRI | 19W |
| 20LM | 2050LM @35K/95CRI | 27W |
| Notes | Delivered lumens based on 20D optic with no lens, (see page 2) | |

### FEATURES

- Designed to meet NYS-OMH rigorous requirements
- Tamper resistant, anti-ligature
- IK10 impact rated, vandal resistant
- UGR<5
- 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 dimming to 0% and 1%
- DMX-512/RDM dim to 0%
- NLight control interface dimming to 0%
- Wireless control options, dim to 1% (see page 12)

### CONSTRUCTION

- Spun Aluminum 6061 lensing frame
- 18-8 stainless steel tamper resistant screws
- Polycarbonate (3mm) shatter resistant lensing.
- Electrocoated 16-gauge cold rolled steel construction
- Accommodates ceiling thickness from 1/8" to 1-5/8"
- **CUT OUT DIMENSION:**
  Tamper - 4-3/8"

### LED

- Luminus tunable white COB from 2700K-6500K: 95 CRI, R9 > 70: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: $L_{70}$ > 54,000 hrs

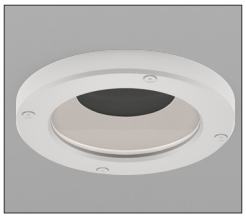
### LISTING

- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- NYSOMH - New York State Office of Mental Health compliant
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

### ELECTRICAL

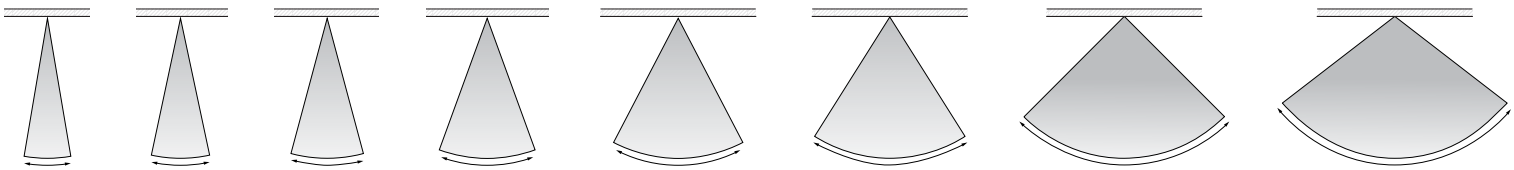
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Max. ambient installation temperature 95°F (35°C)

## TRIM OPTION



Tamper Resistant

## BEAM SPREADS



alphabet

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

## ORDERING CODE

| | | |
|---|---|---|
| **SERIES** | **NU4** | NU4 |
| **TYPE** | **RDTR** | round downlight tamper resistant |
| **LED** | **TW** | tunable white (Luminus) |
| **DELIVERED LUMENS** | **10LM** | 990 lm |
| | **15LM** | 1500 lm |
| | **20LM** | 2010 lm |
| | **25LM** | 2540 lm |
| | **30LM** | 3020lm |
| | **Standard Configuration:** 3500K 95CRI 30D, **NL**<br>**Calculated Delivered Lumens** = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier] | |
| **CCT** | **1840** | 1800K to 4000K tunable white |

| CCT | 1800K | 2000K | 2400K | 2700K | 3000K | 3500K | 4000K |
|---|---|---|---|---|---|---|---|
| CCT MULTIPLIER FOR LUMEN OUTPUT | 0.74 | 0.76 | 0.83 | 0.88 | 0.96 | 1 | 1.09 |
| EML RATIO | 0.21 | 0.33 | 0.46 | 0.54 | 0.6 | 0.69 | 0.73 |

**2765** 2700K to 6500K tunable white

| CCT | 2700K | 3000K | 3500K | 4000K | 5000K | 5700K | 6500K |
|---|---|---|---|---|---|---|---|
| CCT MULTIPLIER FOR LUMEN OUTPUT | 0.96 | 0.97 | 1 | 1.01 | 1.04 | 1.06 | 1.09 |
| EML RATIO | 0.52 | 0.62 | 0.76 | 0.83 | 0.96 | 1.02 | 1.07 |

| | | | |
|---|---|---|---|
| **CRI** | **95** | 95 typical, 90 minimum | |
| **OPTIC & LM MULTIPLIER** | **20D**[1] | 20 degrees | (1.00) |
| | **25D** | 25 degrees | (0.99) |
| | **30D** | 30 degrees | (1.00) |
| | **40D** | 40 degrees | (0.98) |
| | **55D** | 55 degrees | (0.99) |
| | **65D** | 65 degrees | (0.99) |
| **BEZEL LENS** | **CL** | clear lens | (0.95) |
| | **DL** | diffused lens | (0.92) |
| | **HET** | high efficiency textured lens, similar to Solite™ | (0.93) |
| | **SBL** | smoothing beam lens | (0.93) |
| | **WDL** | wide diffused lens* | (0.90) |
| **TRIM COLOR** | **BK** | black | |
| | **WH** | white | |
| | **MC** | matte chrome | |
| | **CC**[2] | custom color, consult factory for details | |
| | Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM. | | |
| | Includes shatter proof lens and tamper resistant screws. | | |
| **BEZEL COLOR** | **BK** | black | (0.98) |
| | **WH** | white | (1.00) |
| | **MC** | matte chrome | (0.99) |
| | **BZ** | bronze | (0.98) |
| | **CC**[2] | custom color, consult factory for details | |
| | Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM. | | |

## ORDERING CODE

| | | |
|---|---|---|
| **MOUNTING OPTIONS** | **NC** | new construction plate |
| | **IC**[3] | insulation contact housing |
| | **ICAT**[3] | insulation contact/airtight housing |
| | **CP**[3] | chicago plenum housing |
| **VOLTAGE** | **UNV** | 120V-277V |
| | **LVL**[4,5] | low voltage luminaire |
| **DIMMING** | **DIM10Z**[6] | eldoLED flicker free 0-10V dim 0.1% |
| | **DALIZ-DT6** | eldoLED flicker free DALI-2, DT6, dim to 0.1% |
| | **DALIZ-DT8** | eldoLED flicker free DALI-2, DT8, dim to 0.1% |
| | **DMX-RJ45** | DMX control dimming to 0.1% with RJ45 connection |
| | **DMX-WL** | DMX-512/RDM dim to 0% with lead wire input |
| | **DMX-XLR** | DMX-512/RDM dim to 0% with XLR input |
| | **NLT** | nLight control interface: Cat-5/RJ45, dim to off |
| | **WIRELESS** (ref. page 12 for available options) | |
| | **REMOTE DX COMPACT DRIVER** (ref. page 11 for available options) | |

## YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

**NU4 - RDTR - TW - 20LM - 2765 - 95 - 55D - DL - WH - WH - NC - UNV - DIM10Z**

### NOTES

1. 20D not available in 25LM & 30LM. 20D Not recommended with DL/E/WDL.
2. Custom set up fee plus minimum quantity required per color.
3. IC/ICAT/CP not available in 25LM & 30LM. 20D optic option with IC/ICAT/CP not available 20LM.
4. Available with NC mounting option only.
5. Must select DX dimming with LVL.
6. Requires 2 wall controllers.

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

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

## OPTICAL OPTIONS

- Corrected UGR values generated per CIE 190-2010 at the following reference condition:
  Room dimensions: X = 4H, Y = 8H
  Reflectances: 70/50/20
- UGR calculation based on 15LM fixtures, unless otherwise noted.

### CL
Clear Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 20D | 19 | <10 |
| 25D | 26.8 | <10 |
| 30D | 28.8 | <10 |
| 40D | 42.9 | <10 |
| 55D | 59 | <10 |
| 65D | 67 | <10 |

### DL
Diffused Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 25D | 43.6 | 15.7 |
| 30D | 46.2 | 15.8 |
| 40D | 54.4 | 17.2 |
| 55D | 62.7 | 18.4 |
| 65D | 70 | 21.1 |

### HET
High Efficiency Textured Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 20D | 22 | <10 |
| 25D | 28.8 | <10 |
| 30D | 32 | <10 |
| 40D | 43.8 | <10 |
| 55D | 57.4 | <10 |
| 65D | 64 | 13.5 |

### WDL
Wide Diffused Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 25D | 91 | 22.4 |
| 30D | 93 | 22.6 |
| 40D | 100 | 23.8 |
| 55D | 105 | 24.9 |
| 65D | 111 | 26 |

### SBL
Smoothing Beam Lens



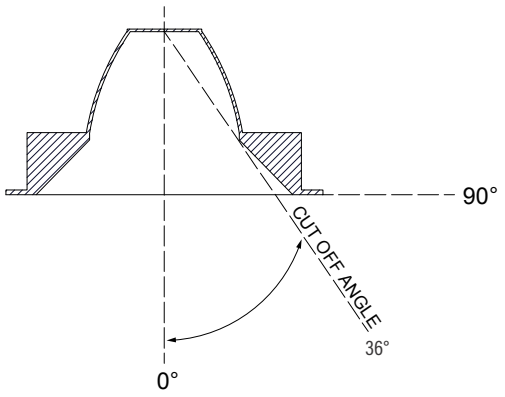
| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 20D | 20 | <10 |
| 25D | 27.1 | <10 |
| 30D | 29.6 | <10 |
| 40D | 43.3 | <10 |
| 55D | 59.7 | <10 |
| 65D | 66 | 10.5 |

## 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.

- Cutoff angle of NL and CL is 36 degrees;



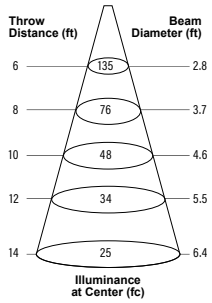
alphabet

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

## PHOTOMETRIC DATA

### 15LM

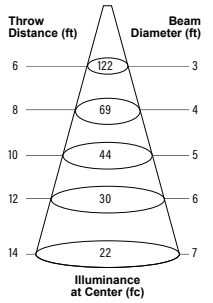
**25D 26° WITH NO LENS**




| WATTS: 16.6 | LPW: 90.9 |
|---|---|
| LUMENS: 1510 | CCT: 3500K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 4833 |
| 5 | 4824 |
| 15 | 1821 |
| 25 | 719 |
| 35 | 298 |
| 45 | 4 |

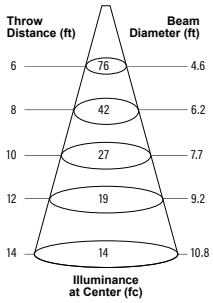
**30D 28° WITH NO LENS**




| WATTS: 16.6 | LPW: 89.2 |
|---|---|
| LUMENS: 1481 | CCT: 3500K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 4390 |
| 5 | 3941 |
| 15 | 2009 |
| 25 | 770 |
| 35 | 282 |
| 45 | 4 |

**40D 42° WITH NO LENS**

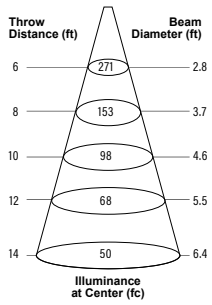



| WATTS: 16.6 | LPW: 90.6 |
|---|---|
| LUMENS: 1504 | CCT: 3500K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 2720 |
| 5 | 2623 |
| 15 | 1944 |
| 25 | 1034 |
| 35 | 345 |
| 45 | 4 |

### 30LM

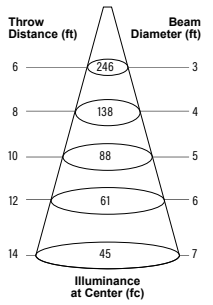
**25D 26° WITH NO LENS**




| WATTS: 33.45 | LPW: 90.9 |
|---|---|
| LUMENS: 3041 | CCT: 3500K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 9735 |
| 5 | 9716 |
| 15 | 3668 |
| 25 | 1447 |
| 35 | 600 |
| 45 | 8 |

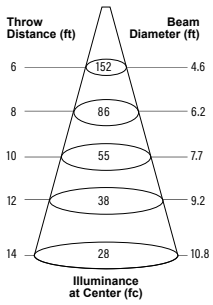
**30D 28° WITH NO LENS**




| WATTS: 33.45 | LPW: 89.2 |
|---|---|
| LUMENS: 2984 | CCT: 3500K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 8843 |
| 5 | 7938 |
| 15 | 4046 |
| 25 | 1551 |
| 35 | 568 |
| 45 | 9 |

**40D 42° WITH NO LENS**




| WATTS: 33.45 | LPW: 90.6 |
|---|---|
| LUMENS: 3030 | CCT: 3500K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 5478 |
| 5 | 5284 |
| 15 | 3915 |
| 25 | 2083 |
| 35 | 695 |
| 45 | 9 |

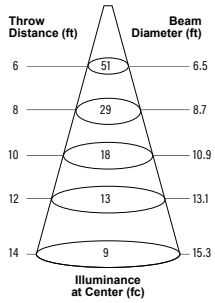
alphabet

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

## PHOTOMETRIC DATA

### 15LM

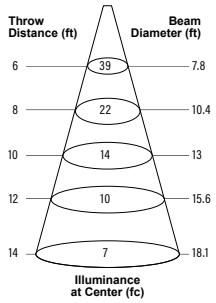
**55D**
**57° WITH NO LENS**




| WATTS: 16.6 | LPW: 89.3 |
|---|---|
| LUMENS: 1482 | CCT: 3500K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 1800 |
| 5 | 1823 |
| 15 | 1739 |
| 25 | 1162 |
| 35 | 393 |
| 45 | 13 |

**65D**
**66° WITH NO LENS**

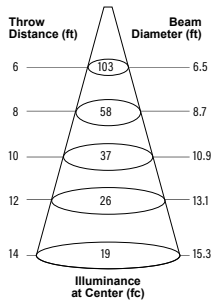



| WATTS: 16.6 | LPW: 91 |
|---|---|
| LUMENS: 1510 | CCT: 3500K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 1420 |
| 5 | 1418 |
| 15 | 1346 |
| 25 | 1086 |
| 35 | 583 |
| 45 | 123 |

### 30LM

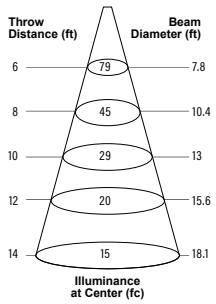
**55D**
**57° WITH NO LENS**




| WATTS: 33.45 | LPW: 89.3 |
|---|---|
| LUMENS: 2986 | CCT: 3500K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 3626 |
| 5 | 3671 |
| 15 | 3503 |
| 25 | 2341 |
| 35 | 792 |
| 45 | 26 |

**65D**
**66° WITH NO LENS**




| WATTS: 33.45 | LPW: 90.9 |
|---|---|
| LUMENS: 3042 | CCT: 3500K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 2861 |
| 5 | 2857 |
| 15 | 2711 |
| 25 | 2187 |
| 35 | 1173 |
| 45 | 247 |

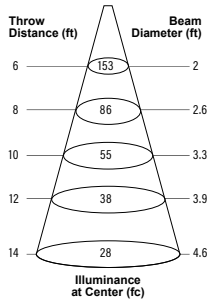
alphabet

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

## PHOTOMETRIC DATA

### 10LM

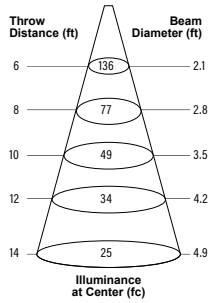
**20D 18.5° WITH NO LENS**




| WATTS: 12.9167 | LPW: 78.5 |
|---|---|
| LUMENS: 1015 | CCT: 3500K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 5478 |
| 5 | 5229 |
| 15 | 1021 |
| 25 | 405 |
| 35 | 187 |
| 45 | 0 |

**20D 19.7° WITH SBL LENS**

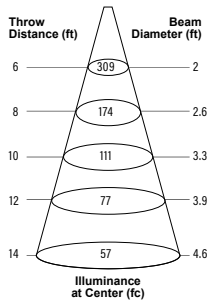



| WATTS: 12.9167 | LPW: 77 |
|---|---|
| LUMENS: 995 | CCT: 3500K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 4902 |
| 5 | 4281 |
| 15 | 1049 |
| 25 | 414 |
| 35 | 187 |
| 45 | 17 |

### 20LM

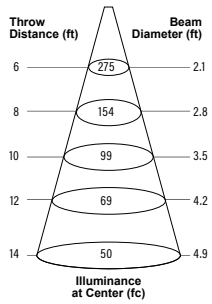
**20D 18.5° WITH NO LENS**




| WATTS: 26.7 | LPW: 76.6 |
|---|---|
| LUMENS: 2046 | CCT: 3500K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 11047 |
| 5 | 10545 |
| 15 | 2059 |
| 25 | 817 |
| 35 | 376 |
| 45 | 0 |

**20D 19.7° WITH SBL LENS**



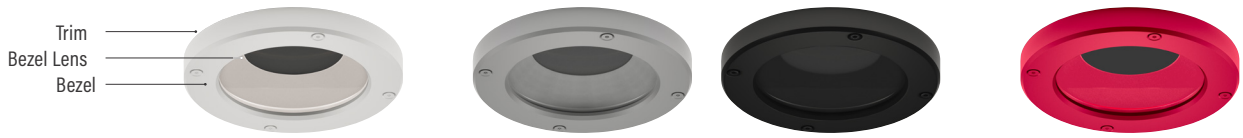

| WATTS: 26.7 | LPW: 75.1 |
|---|---|
| LUMENS: 2006 | CCT: 3500K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 9886 |
| 5 | 8634 |
| 15 | 2115 |
| 25 | 835 |
| 35 | 377 |
| 45 | 33 |

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

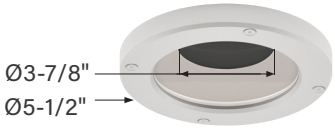
## TRIM OPTIONS

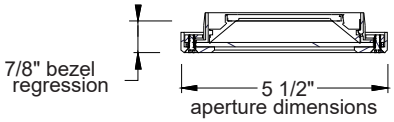
### TRIM/BEZEL COLORS

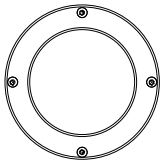



WH MC BK CC

### TAMPER RESISTANT



ceiling cutout
4-3/8" diameter

ceiling thickness
1/8" to 1-5/8"

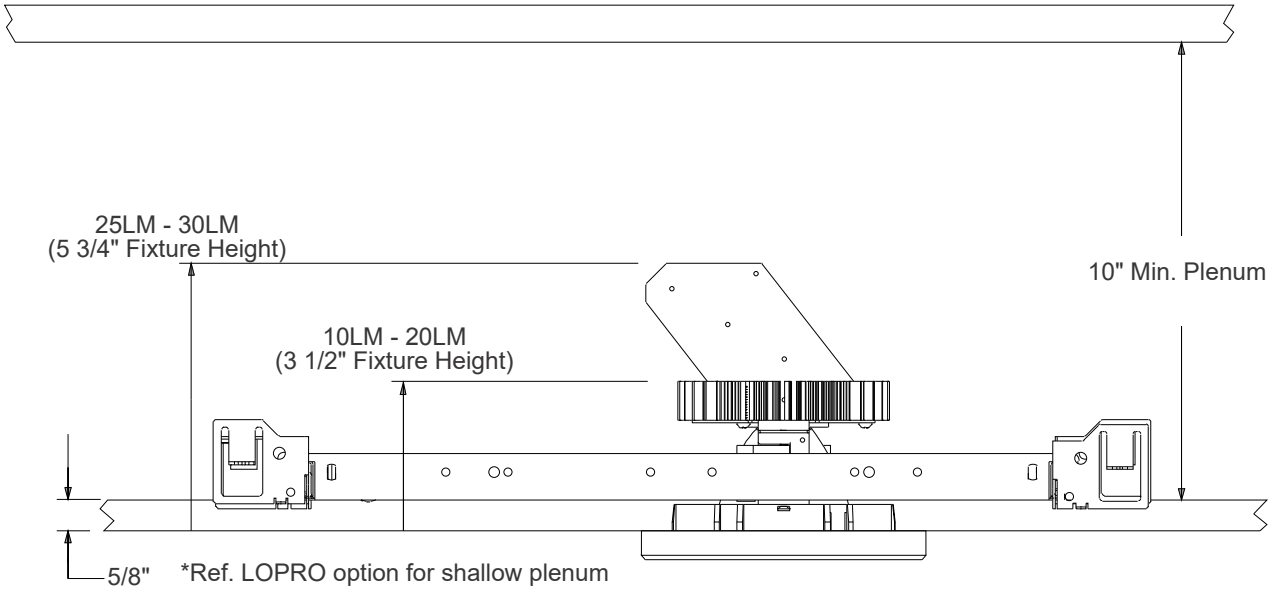
| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

## MOUNTING OPTIONS

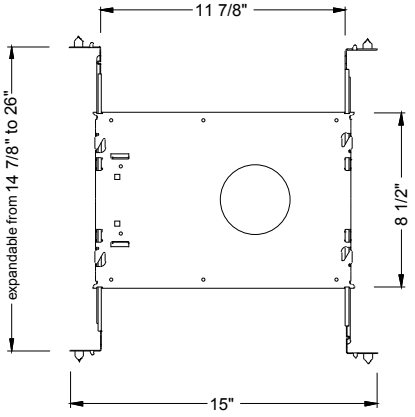
| RATINGS / CERTIFICATIONS | NC | RET | IC | ICAT | CP |
|---|---|---|---|---|---|
| TYPE NON-IC | ✔ | ✔ | | | |
| TYPE IC | | | ✔ | ✔ | |
| CHICAGO PLENUM (CCEA) | | | | | ✔ |
| SUITABLE FOR AIR HANDLING PLENUMS | ✔ | ✔ | ✔ | ✔ | ✔ |
| REDUCED AIRFLOW (WITH LENS) ASTM E283 | ✔ | ✔ | ✔ | ✔ | ✔ |

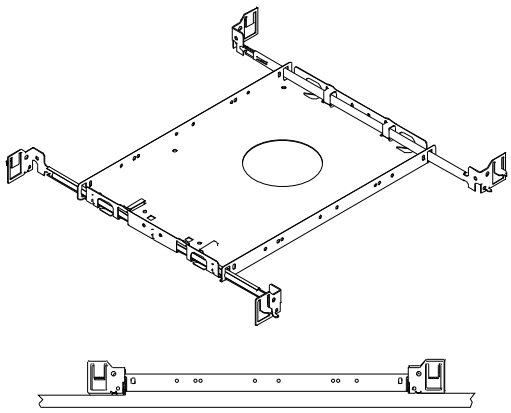
| MOUNTING TYPE | STANDARD CEILING THICKNESS | STANDARD CEILING CUTOUT |
|---|---|---|
| TRIM | 1/8" to 1-5/8" | 4-3/8" |

## PLENUM HEIGHT




## NEW CONSTRUCTION - NC



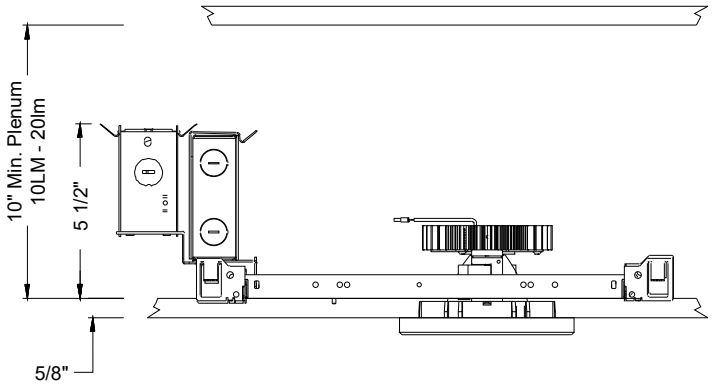



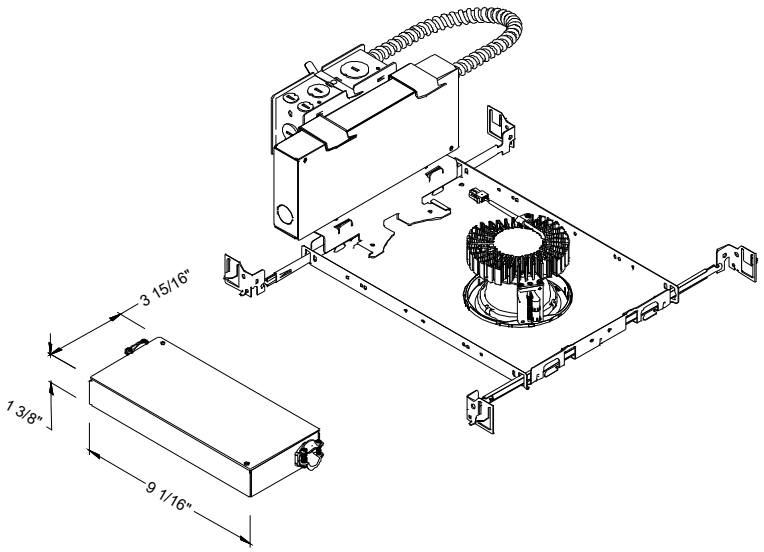
| ADDITIONAL MOUNTING INFO | |
|---|---|
| New Construction<br>Bar Hangers (included) | Mounting Length:<br>14-3/4" to 26" |
| Extension Kit p/n: K20266<br>(ordered separately,<br>1 per fixture) | *Extends a pair of Bar Hangers*<br>Total Mounting Length:<br>29" to 48" |

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

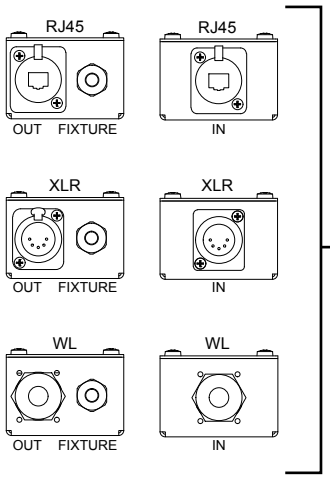
## MOUNTING OPTIONS

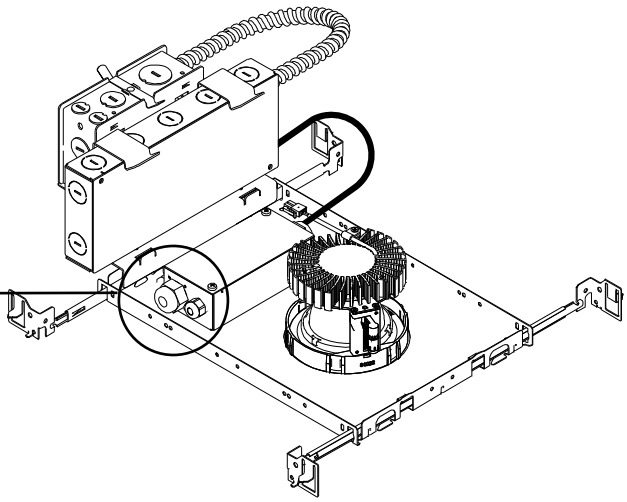
### 10LM-30LM (DIM10Z / DALIZ-DT6 / DALIZ-DT8)
(BELOW CEILING ACCESSIBLE)



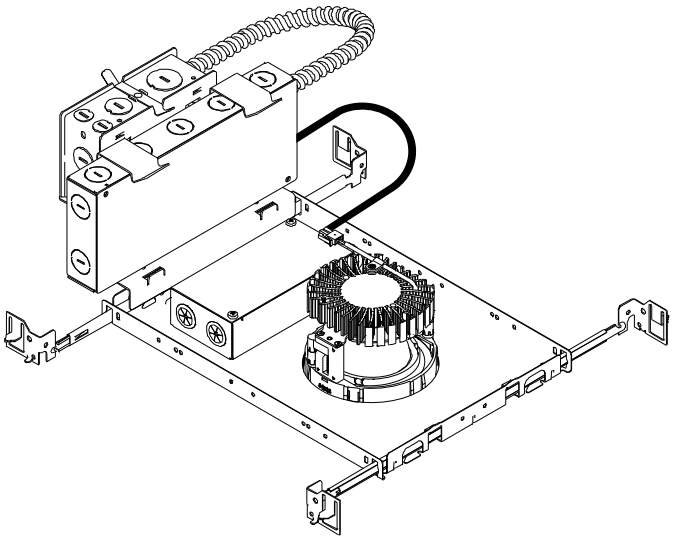




### 10LM-30LM (DMX-WL / DMX-XLR / DMXZ-RJ45)
(BELOW CEILING ACCESSIBLE)



### 10LM-30LM NLT HOUSING - (NLT)
(BELOW CEILING ACCESSIBLE)



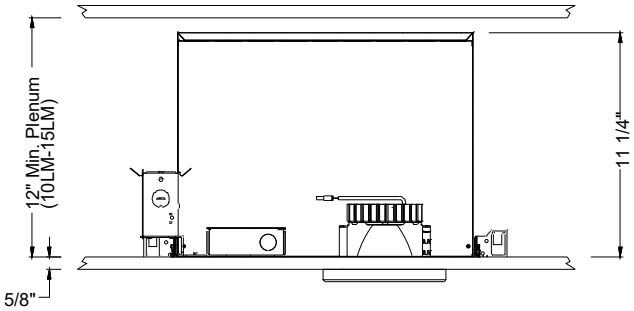


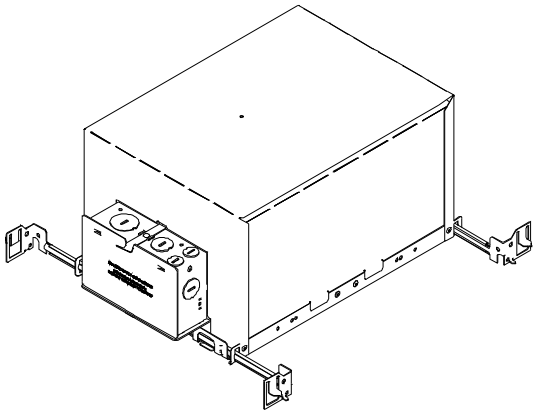
In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

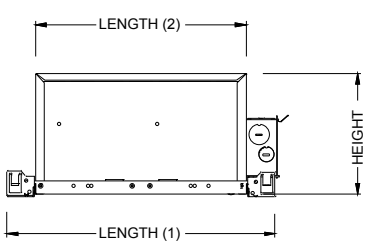
| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

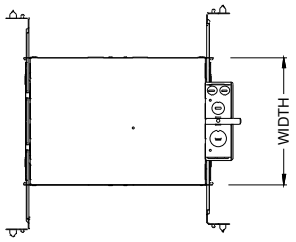
## MOUNTING OPTIONS

### IC - INSULATION CONTACT | ICAT - INSULATION CONTACT / AIR TIGHT | CP - CHICAGO PLENUM
(DIM10Z / DALIZ-DT6 / DALIZ-DT8)






| BOX SIZE | L 1 | L 2 | W | H |
|---|---|---|---|---|
| A | 18 - 1/4" | 14 - 7/8" | 12 - 1/8" | 11 - 1/4" |

| BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (25° - 65°) | | | |
|---|---|---|---|
| LUMEN OUTPUT | BOX-A | | |
| | CP | IC | ICAT |
| 10LM | ✔ | ✔ | ✔ |
| 15LM | ✔ | ✔ | ✔ |
| 20LM | ✔ | ✔ | ✔ |
| 25LM | | | |
| 30LM | | | |

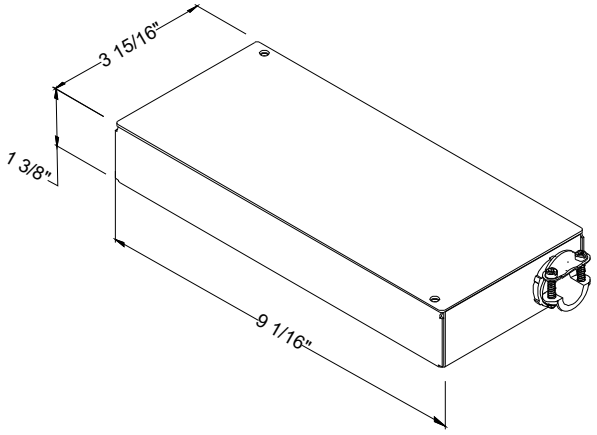
| BOX TYPE / LUMEN OUTPUT - NARROW BEAM (20°) | | | |
|---|---|---|---|
| LUMEN OUTPUT | BOX-A | | |
| | CP | IC | ICAT |
| 10LM | ✔ | ✔ | ✔ |
| 15LM | ✔ | ✔ | ✔ |
| 20LM | | | |

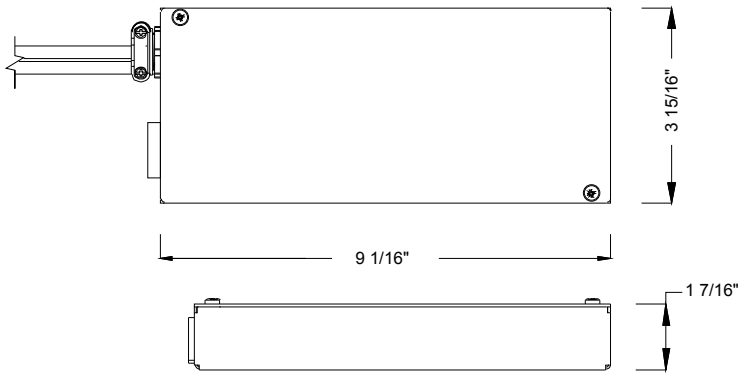
| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

## REMOTE COMPACT DRIVER

### REMOTE COMPACT DRIVER (DIMMING)

| DX ORDERING OPTIONS | |
|---|---|
| **DIM10Z-DX** | remote compact eldoLED flicker free 0-10V dim 0.1% driver |
| **DALIZ-DT6-DX** | remote compact eldoLED flicker free DALI-2, DT6, dim to 0.1% driver |
| **DALIZ-DT8-DX** | remote compact eldoLED flicker free DALI-2, DT8, dim to 0.1% driver |
| **DMX-RJ45-DX** | remote compact DMX-512/RDM dim to 0% with RJ45 input driver |

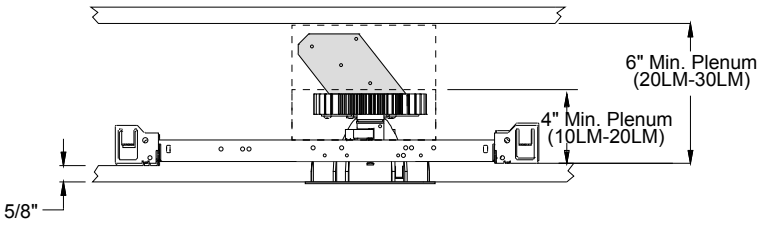



*Remote DX can power LEDs up to 330FT (18 AWG).
Customer will recieve a single remote compact driver per fixture.

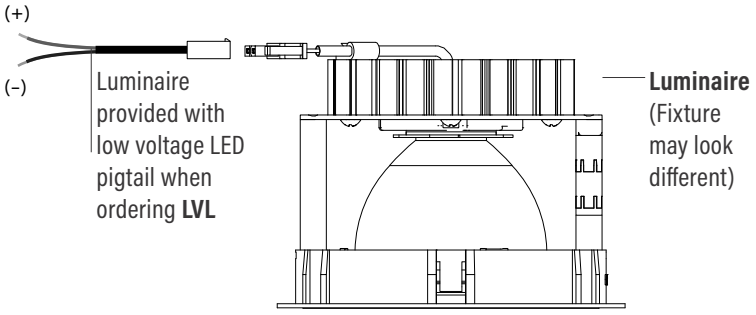
## PLENUM HEIGHT

### (NC-LVL-DX) NEW CONSTRUCTION REMOTE DX DRIVER




## NOMINAL LED VOLTAGE: 36VDC

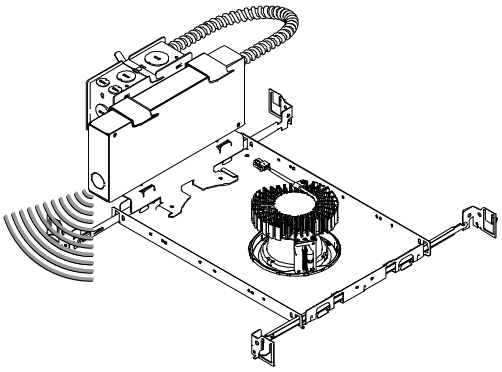
*Customer to order CC Remote Driver separately or POE Node by others.*



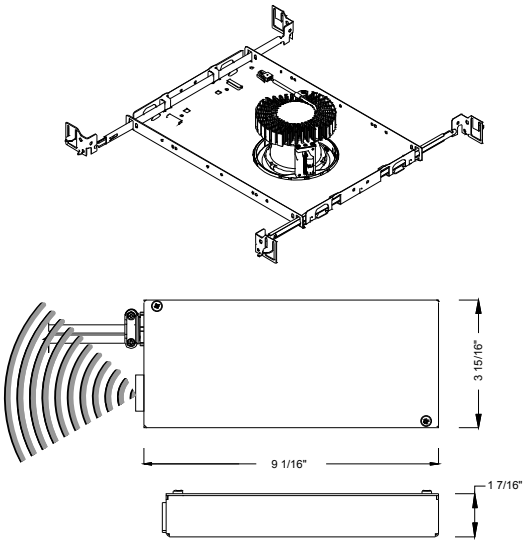
| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

## WIRELESS OPTIONS

### NC - NEW CONSTRUCTION (10LM-15LM)
PLENUM SIDE



### NC - NEW CONSTRUCTION (10LM-15LM)
DX REMOTE




***Customer must verify system design and installation with their controls provider (e.g., Lutron).*** Wireless signal strength, reliability, performance, and commissioning are the responsibility of the customer. Remote DX can power LEDs up to 330FT (18 AWG), but adequate wireless signal is customers responsibility.

| YOUR COMPLETED ORDERING CODE |
|---|
| |
| Follow the steps to specify your fixture, example: |
| **NU4 - RDTR - TW - 20LM - 2765 - 95 - 55D - DL - WH - WH - NC - UNV - DIM10Z - AWN** |
| **NU4 - RDTR - TW - 20LM - 2765 - 95 - 55D - DL - WH - WH - NC - UNV - DIM10Z - AWN - DX** |

LUTRON Athena

**ORDERING CODE**

**AWND**.....athena wireless node (DALI2 Driver) - integrated / above ceiling

**AWND-DX**..athena wireless node (DALI2 Driver) - remote DX Compact Driver



**MODEL NUMBER**

athena node model #: A-WN-D01-RF

**POWER SUPPLY**

(DALI2 Driver): Moons D4i DALI2 LED driver with DALI Bus Power, Dim-to-off

legrand WATTSTOPPER® PLUS

**ORDERING CODE**

**CLMD** .....connected lighting module (DALI2 Driver) - integrated / above ceiling

**CLMD-DX**...connected lighting module (DALI2 Driver) - remote DX Compact Driver



**MODEL NUMBER**

CLM model #: ZBHA-CLM-DIM

**POWER SUPPLY**

(DALI2 Driver): Moons D4i DALI2 LED driver with DALI Bus Power, Dim-to-off