alphabet

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

# NU6 CORE

## 6" Round & Square Downlight - Select

NSF · AT airtight · PR plenum rated · wet rated





| 50° - 90° BEAM (Note: Specifications are subject to change without notice) | | |
|---|---|---|
| COB PERFORMANCE DATA | | |
| LED LIGHT ENGINE | NOMINAL DELIVERED LUMENS | SYSTEM WATTAGE |
| 10LM | 1110LM @30K/90CRI | 10W |
| 15LM | 1570LM @30K/90CRI | 15W |
| 20LM | 1960LM @30K/90CRI | 20W |
| 25LM | 2260LM @30K/90CRI | 24W |
| Notes | Delivered lumens based on 70° optic, (see page 2) | |

### FEATURES

- Economical choice for budget projects
- Thermally optimized for LED longevity
- Configurable to wattage and light source CCT preference
- Available in three beam angles
- Below ceiling accessible, snap-in driver method

### DIMMING AND CONTROLS

- 5 CCT selectable: 2700/3000K/3500K/4000K/5000K
- 3 Wattage selectable: 10W/15W/20W or 15W/20W/25W
- 0-10V dimming to 3%
- Leading & trailing edge (Triac/ELV) dimming to 3%

### CONSTRUCTION

- Die casted aluminum heat sink
- Aluminum trim / bezel
- Easy mounting system to adjust to various ceiling thicknesses
- **CUTOUT DIMENSION:**
  Trimmed Round: 6-1/2"
  Trimmed Square: 7" x 7"

### LED

- 90 CRI: SDCM 3-step MacAdam Ellipse, lumen maintenance: $L_{70}$ >50K hours

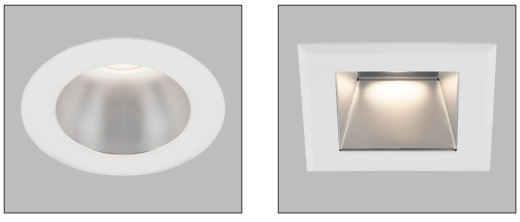
### LISTING

- ULus Listed to UL1598; cUL Listed CSA C22.2 #250.0
- JA8 certified
- Energy Star
- 5 Year Limited warranty

### ELECTRICAL

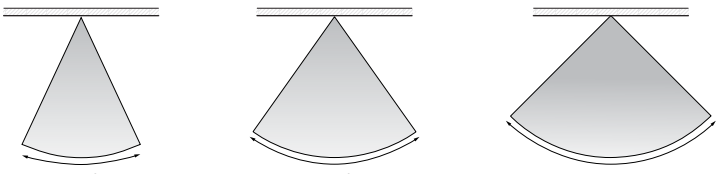
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- Remote emergency test switch & integrated test switch
- 25W EM 90 min battery, 120/277VAC input (CEC Title 20), dual flex, 0-10V compatible
- Max. ambient installation temperature 95°F (35°C)

## TRIM OPTIONS



Trimmed

## BEAM SPREADS



alphabet

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

## ORDERING CODE

| | | | |
|---|---|---|---|
| **SERIES** | **NUC6** | NU6 Core | |
| **TYPE** | **RD** | round downlight | (1.00) |
| | **QD** | square downlight | (1.00) |
| **LED** | **SW** | standard white | |
| **DELIVERED LUMENS** | **3PW1**[1] | selectable wattage: 10W, 15W, 20W | |
| | **3PW2**[1] | selectable wattage: 15W, 20W, 25W | |
| | **Standard Configuration:** 3000K, 90CRI, 50D<br>**Calculated Delivered Lumens =** [Delivered Lumen Value] x [Type Multiplier] x [CCT Multiplier] x [Optic Multiplier] x [Trim Multiplier] | | |
| **CCT** | **5CCT** | selectable CCT: 2700/3000K/3500K/4000K/5000K | |

| CCT | 2700K | 3000K | 3500K | 4000K | 5000K |
|---|---|---|---|---|---|
| CRI | 90+ | 90+ | 90+ | 90+ | 90+ |
| CCT MULTIPLIER FOR LUMEN OUTPUT | 0.97 | 1 | 1.03 | 1.05 | 1.07 |

| | | | |
|---|---|---|---|
| **CRI** | **90** | 90 CRI | |
| **OPTIC & LM MULTIPLIER** | **50D**[2] | 50 degrees | (0.99) |
| | **70D** | 70 degrees | (1.00) |
| | **90D**[3] | 90 degrees | (1.00) |
| **TRIM COLOR** | **BK** | black - alum. reflector | (1.00) |
| | **WH** | white - alum. reflector | (1.00) |
| | **WHW**[3] | white - white reflector | (1.04) |

## ORDERING CODE

| | | |
|---|---|---|
| **MOUNTING OPTIONS** | **NCIC**[1] | new construction with ceiling fitting plate, insulation contact rated (no housing required) |
| | **NC** | new construction plate |
| | **RETIC**[1] | retrofit, no ceiling fitting plate, insulation contact rated (no housing required) |
| | **RET** | retrofit, no ceiling plate |
| **VOLTAGE** | **120** | 120V |
| | **UNV** | 120V-277V |
| **DIMMING** | **DIM10** | 0-10V dimming, to 3% |
| | **ELV**[4] | leading & trailing edge dimming (Triac/ELV), dim to 3% |
| **ELECTRICAL OPTIONS** | **INVB** | remote emergency inverter battery backup, 90 min. at 25W, remote test switch |
| | **INVB-ITS** | emergency inverter battery backup, 90 min. at 25W, integrated test switch |

## YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

**NUC6 - RD - SW - 3PW1 - 5CCT - 90 - 50D - WH - NCIC - UNV - DIM10**

**NOTES**

1. NCIC and RETIC available with IC-rating up to 15W.
2. Not available for QD.
3. Available with 90D + WHW only.
4. ELV available in 120V.

| 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 15W fixtures, unless otherwise noted.

**NL**

No Lens



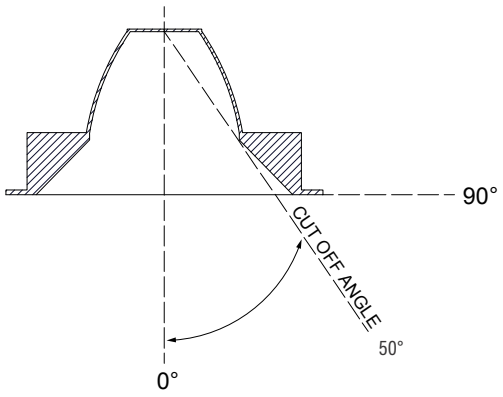
| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| **50D** | 63 | <10 |
| **70D** | 72 | <10 |
| **90D** | 90 | 21 |

## 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 is 50° degrees;







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.

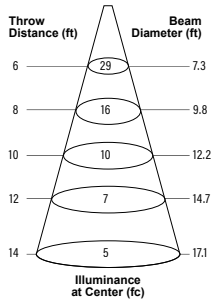
alphabet

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

## PHOTOMETRIC DATA

| 10W CCT MULTIPLIERS | |
|---|---|
| 2700K | 0.97 |
| 3000K | 1 |
| 3500K | 1.03 |
| 4000K | 1.05 |
| 5000K | 1.07 |
| FC Formula = CBCP / Distance | |

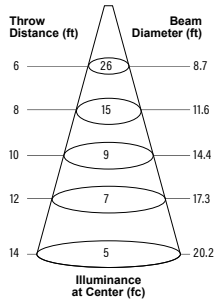
### RD 50D 63° ROUND ALUM REFLECTOR




| WATTS: 10.3 | LPW: 106.4 |
|---|---|
| LUMENS: 1096 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 1028 |
| 5 | 1015 |
| 15 | 890 |
| 25 | 669 |
| 35 | 431 |
| 45 | 202 |

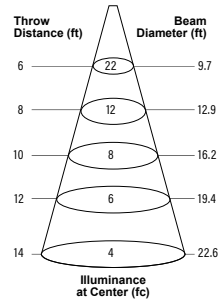
### RD 70D 72° ROUND ALUM REFLECTOR




| WATTS: 10.3 | LPW: 108.1 |
|---|---|
| LUMENS: 1113 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 946 |
| 5 | 925 |
| 15 | 791 |
| 25 | 631 |
| 35 | 488 |
| 45 | 237 |

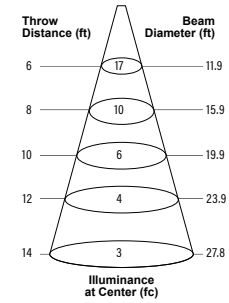
### QD 70D 78° SQUARE ALUM REFLECTOR




| WATTS: 10.3 | LPW: 107.3 |
|---|---|
| LUMENS: 1105 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 796 |
| 5 | 793 |
| 15 | 749 |
| 25 | 638 |
| 35 | 485 |
| 45 | 230 |

### QD 90D 90° SQUARE WHITE REFLECTOR

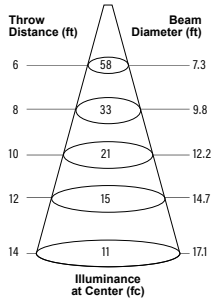



| WATTS: 10.3 | LPW: 113.5 |
|---|---|
| LUMENS: 1169 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 623 |
| 5 | 619 |
| 15 | 590 |
| 25 | 533 |
| 35 | 458 |
| 45 | 308 |

| 25W CCT MULTIPLIERS | |
|---|---|
| 2700K | 0.97 |
| 3000K | 1 |
| 3500K | 1.03 |
| 4000K | 1.05 |
| 5000K | 1.07 |
| FC Formula = CBCP / Distance | |

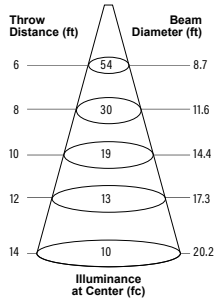
### RD 50D 63° ROUND ALUM REFLECTOR




| WATTS: 23.7 | LPW: 94.2 |
|---|---|
| LUMENS: 2232 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 2093 |
| 5 | 2066 |
| 15 | 1813 |
| 25 | 1363 |
| 35 | 878 |
| 45 | 411 |

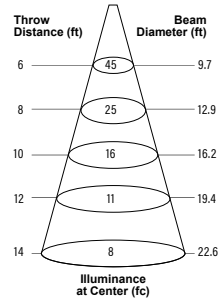
### RD 70D 72° ROUND ALUM REFLECTOR




| WATTS: 23.7 | LPW: 95.7 |
|---|---|
| LUMENS: 2267 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 1926 |
| 5 | 1883 |
| 15 | 1610 |
| 25 | 1285 |
| 35 | 993 |
| 45 | 483 |

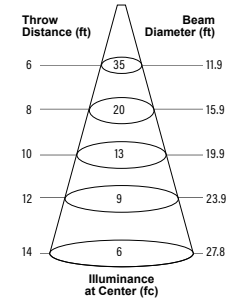
### QD 70D 78° SQUARE ALUM REFLECTOR




| WATTS: 23.7 | LPW: 95 |
|---|---|
| LUMENS: 2251 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 1620 |
| 5 | 1616 |
| 15 | 1526 |
| 25 | 1300 |
| 35 | 988 |
| 45 | 469 |

### QD 90D 90° SQUARE WHITE REFLECTOR




| WATTS: 23.7 | LPW: 100.5 |
|---|---|
| LUMENS: 2381 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 1268 |
| 5 | 1261 |
| 15 | 1201 |
| 25 | 1084 |
| 35 | 933 |
| 45 | 627 |

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

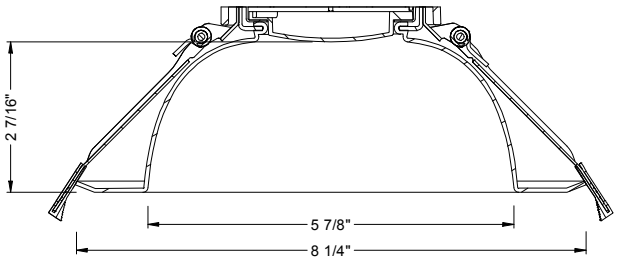
## TRIM OPTIONS

### TRIM/BEZEL COLORS

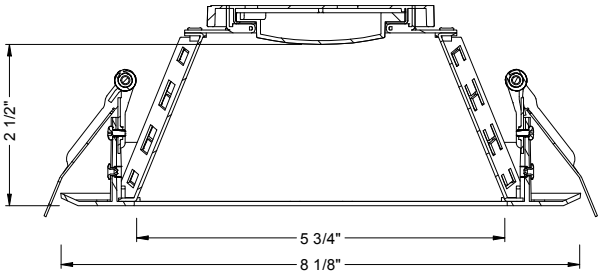



WH BK WHW

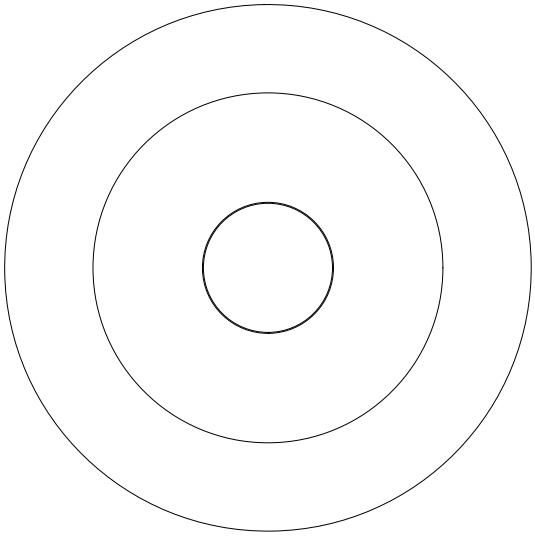
### TRIMMED




aperture dimensions

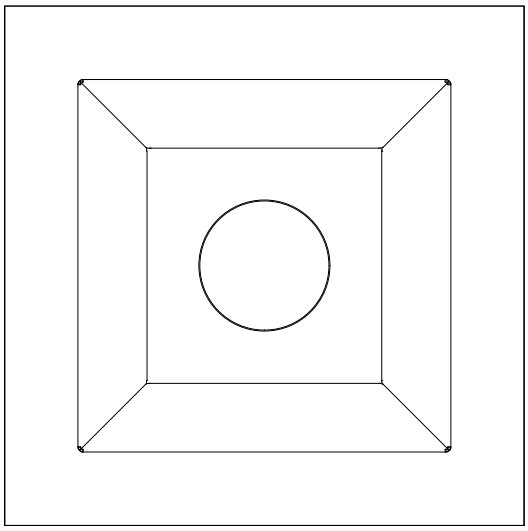



aperture dimensions



ceiling cutout
6-1/2" diameter

ceiling thickness
1/4" - 1 1/4"



ceiling cutout
7" x 7"

ceiling thickness
1/4" - 1 1/4"

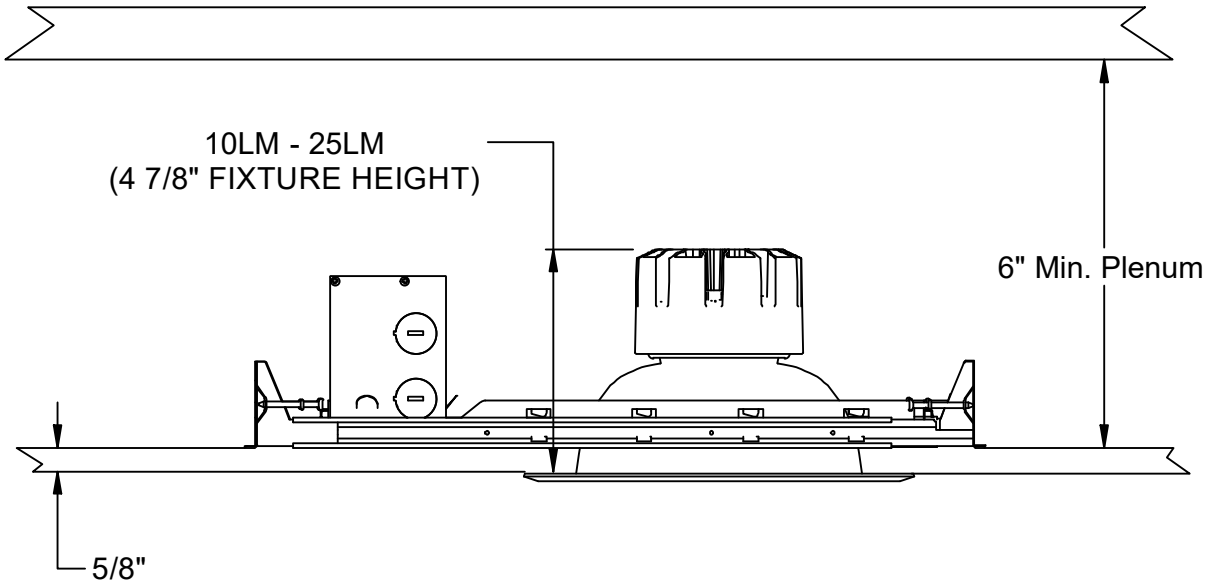
| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

## MOUNTING OPTIONS

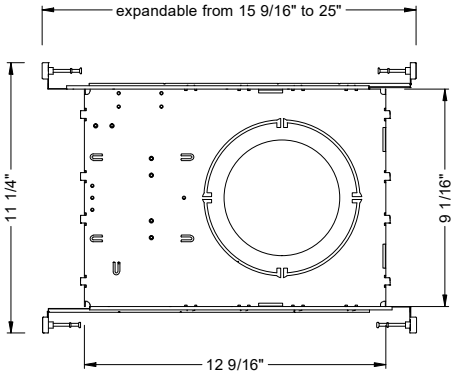
| RATINGS / CERTIFICATIONS | NCIC | RETIC |
|---|---|---|
| TYPE NON-IC | ✔ | ✔ |
| TYPE IC | ✔ | ✔ |
| SUITABLE FOR AIR HANDLING PLENUMS | ✔ | ✔ |

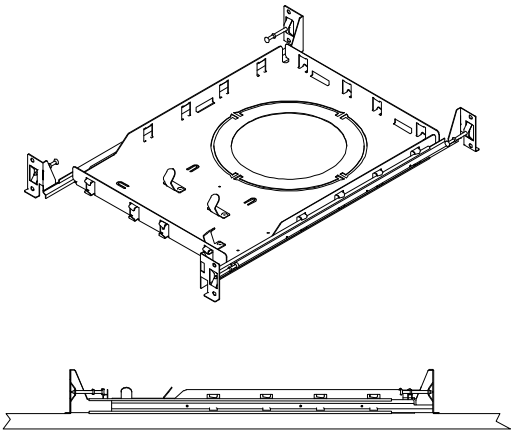
| MOUNTING TYPE | STANDARD CEILING THICKNESS | STANDARD CEILING CUTOUT |
|---|---|---|
| TRIM | 1/8" to 1-1/4" | 6-1/2" or 7" x 7" square |

## PLENUM HEIGHT




## NEW CONSTRUCTION - NC



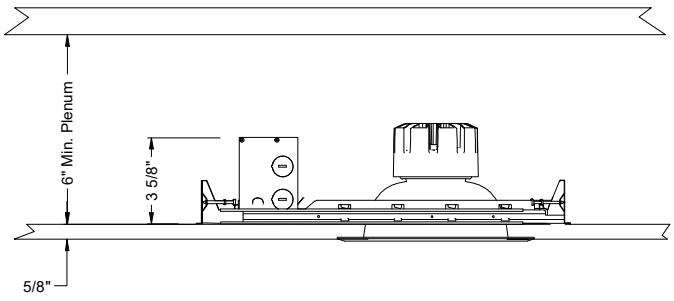



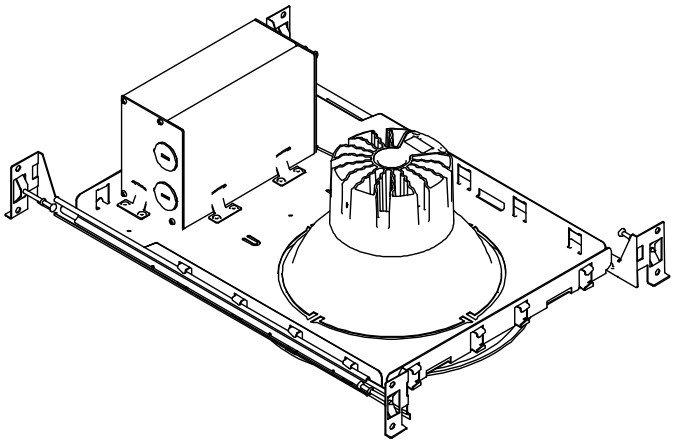
| ADDITIONAL MOUNTING INFO | |
|---|---|
| New Construction<br>Bar Hangers (included) | Mounting Length:<br>15-9/16" to 25" |

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

## MOUNTING OPTIONS

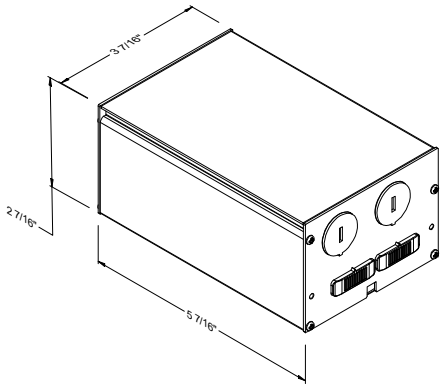
### 10LM-25LM (DIM10 / ELV)
(BELOW CEILING ACCESSIBLE)

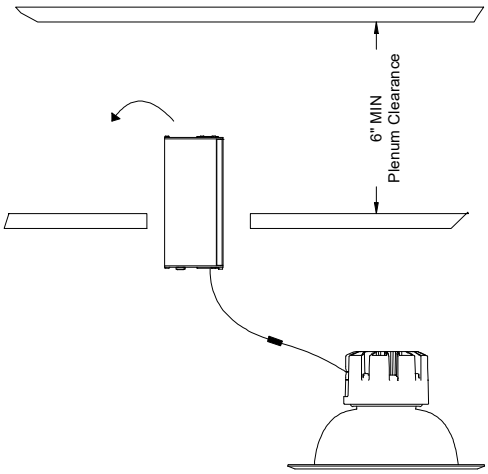


## RETRO OPTIONS

### 10LM-25LM (DIM10 / ELV)
(BELOW CEILING ACCESSIBLE)



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

## BATTERY OPTIONS

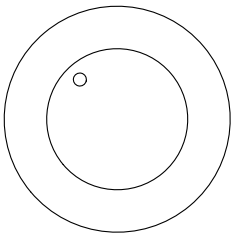
### EMERGENCY BATTERY
Utilize remote batteries that are UL Listed LED emergency drivers that allow the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the remote battery switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains a battery, charger, and converter circuit in a single assembly. The Constant Power design of the remote battery maintains the output wattage to the LED array even as the system voltage diminishes. UL Listed for U.S. and Canada. 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.

### INTEGRATED TEST SWITCH
The integrated test switch is mounted on reflector

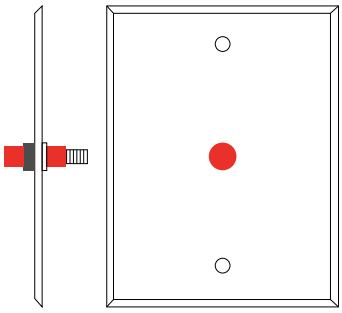
### REMOTE TEST SWITCH
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

### EMERGENCY BATTERY ACCESS
Above ceiling access is recommended for ease of service.

### REMOTE LOCATION
Maximum remote mounting distance of the emergency driver shall be 15 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.

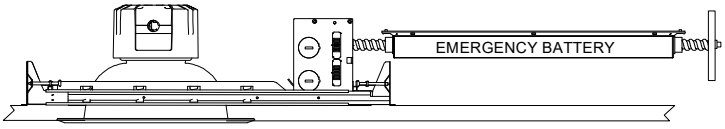


Integrated Test Switch

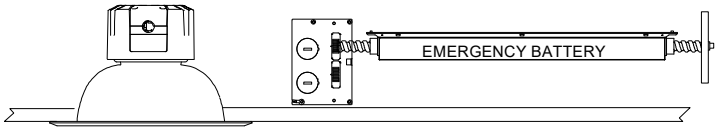


Remote Test Switch

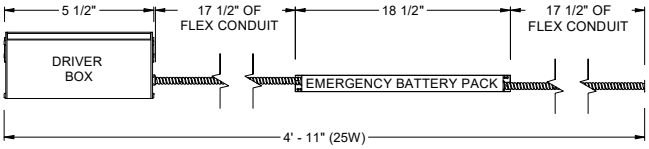
## NC - NEW CONSTRUCTION
### WITH EM BATTERY (REMOTE TEST SWITCH)



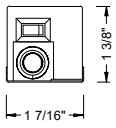

## RET - RETROFIT
### WITH EM BATTERY (REMOTE TEST SWITCH)




## REMOTE BATTERY DIMENSIONS




EMERGENCY BATTERY PACK




DRIVER BOX

