alphabet

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

# NU essentials

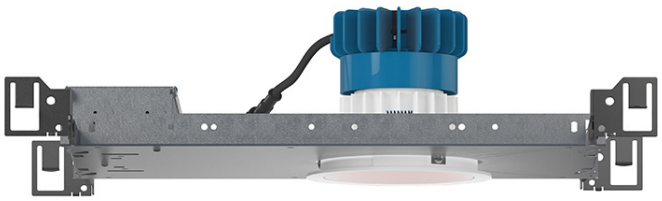
## 4" Round & Square Downlight Standard White

NSF · AT airtight · PR plenum rated · wet rated

| 30° - 60° BEAM (Note: Specifications are subject to change without notice) | | |
|---|---|---|
| 9mm COB PERFORMANCE DATA | | |
| LED LIGHT ENGINE | NOMINAL DELIVERED LUMENS | SYSTEM WATTAGE |
| 10LM | 1070LM @30K/90CRI | 11W |
| 13LM | 1360LM @30K/90CRI | 14W |
| 15LM | 1560LM @30K/90CRI | 16W |
| 20LM | 2000LM @30K/90CRI | 21W |
| Notes | Delivered lumens based on 40D optic with np lens, (see page 2) | |

| 14° - 25° BEAM (Note: Specifications are subject to change without notice) | | |
|---|---|---|
| 6mm COB PERFORMANCE DATA | | |
| LED LIGHT ENGINE | NOMINAL DELIVERED LUMENS | SYSTEM WATTAGE |
| 10LM | 970LM @30K/90CRI | 11W |
| 15LM | 1450LM @30K/90CRI | 18W |
| Notes | Delivered lumens based on 25D optic with no lens, (see page 2) | |

T24 JA8–2022



### FEATURES
- Economical choice for budget projects
- Thermally optimized for LED longevity
- Fully casted assembly
- 14° - 80° optical beam control
- Packaging material consists of 60-80% post-consumer recycled fiber

### DIMMING AND CONTROLS
- eldoLED 0-10V, 0.1% and 1%
- Leading & trailing edge (Triac/ELV), dim to 1%

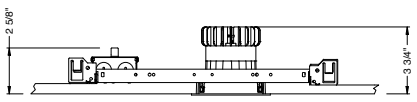
### CONSTRUCTION
- Aluminum trim and bezel
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/4" to 1"

### LED
- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: $L_{70}$ > 66,000 hrs

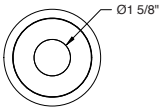
### LISTING
- ULus Listed to UL1598; cUL Listed to CSA C22.2 #250.0
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- IP44 with lens - suitable for wet location with lens - suitable damp location without lens
- 5 Year Limited warranty

### ELECTRICAL
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- 7W and 10W (T20 CEC) EM 90min battery
- Max. ambient installation temperature 104°F (40°C)

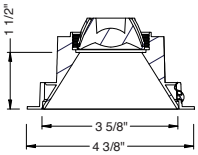
### FIXTURE HEIGHT




### ROUND

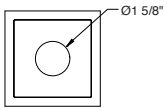



ceiling cutout
4" diameter
ceiling thickness
1/4" to 1"

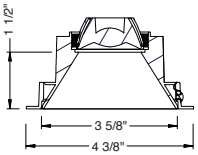



aperture dimensions

### SQUARE




ceiling cutout
4" x 4" square
ceiling thickness
1/4" to 1"




aperture dimensions

alphabet

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

## 15°- 80° BEAM ORDERING CODE

| | | |
|---|---|---|
| **SERIES** | **NUE4** | NUE |
| **TYPE** | **RD** | round downlight |
| | **QD** | square downlight |
| | **RDT** | round downlight trimless |
| | **QDT** | square downlight trimless |
| **LED** | **SW** | standard white |
| **DELIVERED LUMENS** | **10LM** | 1070 lm |
| | **13LM** | 1360 lm |
| | **15LM** | 1560 lm |
| | **20LM** | 2000 lm |
| | **Standard Configuration:** 3000K 90CRI 40D NL<br>**Calculated Delivered Lumens** = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier] | |
| **CCT** | **27K** | 2700K |
| | **30K** | 3000K |
| | **35K** | 3500K |
| | **40K** | 4000K |

| CCT | 2700K | 3000K | 3500K | 4000K |
|---|---|---|---|---|
| CRI | 90+ | 90+ | 90+ | 90+ |
| CCT MULTIPLIER FOR LUMEN OUTPUT | 0.96 | 1 | 1.03 | 1.06 |

| | | | |
|---|---|---|---|
| **CRI** | **90** | 90 CRI | |
| **OPTIC & LM MULTIPLIER** SEE PAGE 3 | **14D**[1] | 14 degrees | (0.90) |
| | **25D**[1] | 25 degrees | (1.00) |
| | **30D** | 30 degrees | (0.95) |
| | **40D** | 40 degrees | (1.00) |
| | **60D** | 60 degrees | (1.00) |
| | For 80° choose '60D' + 'DL' lens. | | |
| **LENS** | **NL**[2] | no lens | (1.00) |
| | **CL**[3] | clear lens | (0.95) |
| | **DL**[3] | diffused lens | (0.76) |
| | **HET**[3] | high efficiency textured lens, similar to Solite™ | (0.92) |
| | **HCL**[4] | honeycomb louver | (0.64) |
| **TRIM COLOR** | **BK** | black | |
| | **WH** | white | |
| | **MC** | matte chrome | |
| | Not applicable to trimless option. Do not include in trimless ordering code. | | |
| **BEZEL COLOR** | **BK** | black | (0.95) |
| | **WH** | white | (1.00) |
| | **MC** | matte chrome | (0.99) |

## 15°- 80° BEAM ORDERING CODE

| | | |
|---|---|---|
| **MOUNTING OPTIONS** SEE PAGE 4, 7 | **NC** | new construction plate |
| | **IC** | insulation contact housing |
| | **ICAT** | insulation contact/airtight housing |
| | **CP** | chicago plenum housing |
| | **RET** | retrofit, no ceiling plate |
| | **NCIC**[5] | new construction with ceiling fitting plate, insulation contact rated (no housing required) |
| | **RETIC**[5] | retrofit, no ceiling fitting plate, insulation contact rated (no housing required) |
| **VOLTAGE** | **120** | 120V |
| | **UNV** | 120V-277V |
| **DIMMING** | **DIM10** | eldoLED flicker free 0-10V dim to 1% |
| | **ELV1**[6] | leading edge & trailing edge (Triac/ELV) dim to 1% |
| **ELECTRICAL OPTIONS** | **EM7** | remote emergency battery, 90 min at 7W |
| | **EM10CA20** | emergency battery backup, 90 minutes at 10W to LED, CA title 20 |

| 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" |

## YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

**NUE4 - RD - SW - 20LM - 30K - 90 - 30D - NL - WH - WH - NC - UNV - DIM10**

### NOTES

1. 14D/25D available in 10LM/15LM. Not available with DL lens.
2. NL lens option does not meet requirements for WET/NSF listings.
3. CL/DL/HET lens options with IC or ICAT housing are JA8 compliant.
4. HCL cannot be used with lens (max 1 media).
5. NCIC/RETIC are available in 10LM/13LM rated for insulation contact (IC), no "IC-Housing" required.
6. ELV1 available in 120V.

alphabet

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

## TRIM OPTIONS

### TRIM/BEZEL COLORS




WH MC BK

## OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 15LM fixtures, unless otherwise noted.

### HCL
Honeycomb Louver



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 14D | 13 | ≤5 |
| 25D | 24 | ≤5 |
| 30D | 30 | 8.5 |
| 40D | 37 | 7.7 |
| 60D | 47 | 13.9 |

### NL
No Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 14D | 14 | 6.1 |
| 25D | 25 | ≤5 |
| 30D | 31 | 14 |
| 40D | 41 | 11 |
| 60D | 58 | 17.9 |

### CL
Clear Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 14D | 14 | 6.5 |
| 25D | 26 | ≤5 |
| 30D | 32 | 13.4 |
| 40D | 42 | 11.9 |
| 60D | 58 | 17.9 |

### DL
Diffused Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 30D | 65 | 21.2 |
| 40D | 70 | 22.3 |
| 60D | 80 | 23.2 |

### HET
High Efficiency Textured Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 14D | 18 | 7.8 |
| 25D | 27 | ≤5 |
| 30D | 34 | 13.5 |
| 40D | 41 | 13.9 |
| 60D | 56 | 18.8 |

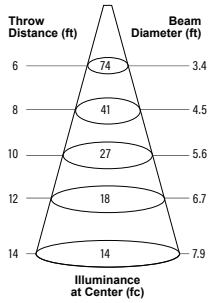
alphabet

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

## PHOTOMETRIC DATA

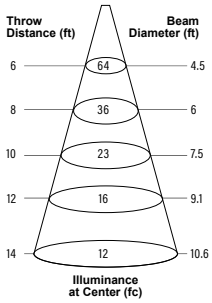
| 10LM | |
|---|---|
| | 90CRI |
| 2700K | 0.96 |
| 3000K | 1 |
| 3500K | 1.03 |
| 4000K | 1.06 |
| FC Formula = CBCP / Distance$^2$ | |

### 30D 31° WITH NO LENS



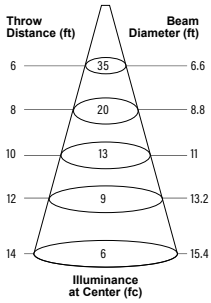

| WATTS: 10.4 | LPW: 97.2 |
|---|---|
| LUMENS: 1011 | CCT: 3000K |
| INTENSITY | |
| DEGREE | CANDELA |
| 0 | 2653 |
| 5 | 2580 |
| 15 | 1442 |
| 25 | 496 |
| 35 | 152 |
| 45 | 30 |

### 40D 41° WITH NO LENS




| WATTS: 10.4 | LPW: 102.9 |
|---|---|
| LUMENS: 1070 | CCT: 3000K |
| INTENSITY | |
| DEGREE | CANDELA |
| 0 | 2293 |
| 5 | 2242 |
| 15 | 1761 |
| 25 | 631 |
| 35 | 100 |
| 45 | 15 |

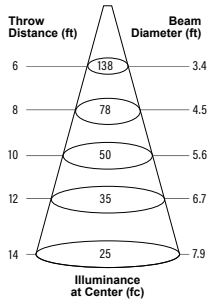
### 60D 58° WITH NO LENS




| WATTS: 10.4 | LPW: 100.6 |
|---|---|
| LUMENS: 1046 | CCT: 3000K |
| INTENSITY | |
| DEGREE | CANDELA |
| 0 | 1251 |
| 5 | 1242 |
| 15 | 1137 |
| 25 | 813 |
| 35 | 300 |
| 45 | 47 |

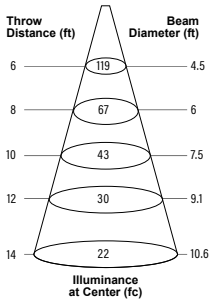
| 20LM | |
|---|---|
| | 90CRI |
| 2700K | 0.96 |
| 3000K | 1 |
| 3500K | 1.03 |
| 4000K | 1.06 |
| FC Formula = CBCP / Distance$^2$ | |

### 30D 31° WITH NO LENS



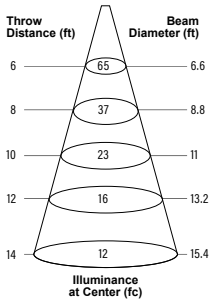

| WATTS: 20.7 | LPW: 91.5 |
|---|---|
| LUMENS: 1893 | CCT: 3000K |
| INTENSITY | |
| DEGREE | CANDELA |
| 0 | 4969 |
| 5 | 4832 |
| 15 | 2700 |
| 25 | 930 |
| 35 | 285 |
| 45 | 56 |

### 40D 41° WITH NO LENS




| WATTS: 20.7 | LPW: 96.8 |
|---|---|
| LUMENS: 2004 | CCT: 3000K |
| INTENSITY | |
| DEGREE | CANDELA |
| 0 | 4294 |
| 5 | 4198 |
| 15 | 3298 |
| 25 | 1182 |
| 35 | 187 |
| 45 | 27 |

### 60D 58° WITH NO LENS




| WATTS: 20.7 | LPW: 94.7 |
|---|---|
| LUMENS: 1959 | CCT: 3000K |
| INTENSITY | |
| DEGREE | CANDELA |
| 0 | 2343 |
| 5 | 2326 |
| 15 | 2129 |
| 25 | 1523 |
| 35 | 561 |
| 45 | 88 |

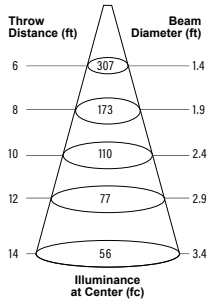
alphabet

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

## PHOTOMETRIC DATA

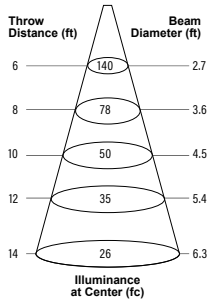
| 10LM | |
|---|---|
| | 90CRI |
| 2700K | 0.96 |
| 3000K | 1 |
| 3500K | 1.03 |
| 4000K | 1.06 |
| FC Formula = CBCP / Distance$^2$ | |

**14D 13.7° WITH NO LENS**




| WATTS: 11.1 | LPW: 78.4 |
|---|---|
| LUMENS: 870 | CCT: 3000K |
| INTENSITY | |
| DEGREE | CANDELA |
| 0 | 11050 |
| 5 | 8165 |
| 15 | 579 |
| 25 | 164 |
| 35 | 55 |
| 45 | 12 |

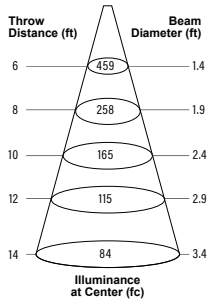
**25D 25° WITH NO LENS**




| WATTS: 11.1 | LPW: 87.5 |
|---|---|
| LUMENS: 972 | CCT: 3000K |
| INTENSITY | |
| DEGREE | CANDELA |
| 0 | 5024 |
| 5 | 4701 |
| 15 | 1724 |
| 25 | 116 |
| 35 | 25 |
| 45 | 5 |

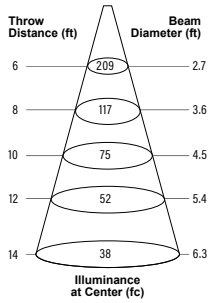
| 15LM | |
|---|---|
| | 90CRI |
| 2700K | 0.96 |
| 3000K | 1 |
| 3500K | 1.03 |
| 4000K | 1.06 |
| FC Formula = CBCP / Distance$^2$ | |

**14D 13.7° WITH NO LENS**




| WATTS: 18.1 | LPW: 71.9 |
|---|---|
| LUMENS: 1301 | CCT: 3000K |
| INTENSITY | |
| DEGREE | CANDELA |
| 0 | 16518 |
| 5 | 12205 |
| 15 | 865 |
| 25 | 245 |
| 35 | 82 |
| 45 | 18 |

**25D 25° WITH NO LENS**



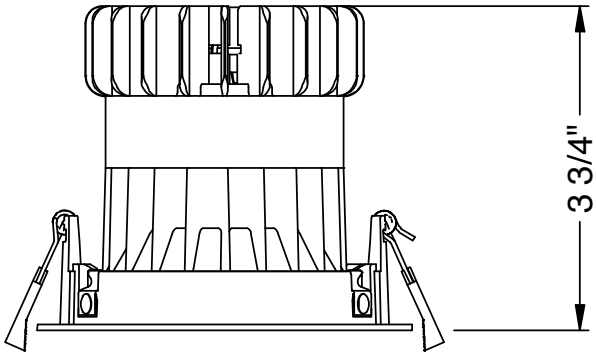

| WATTS: 18.1 | LPW: 80.3 |
|---|---|
| LUMENS: 1453 | CCT: 3000K |
| INTENSITY | |
| DEGREE | CANDELA |
| 0 | 7509 |
| 5 | 7028 |
| 15 | 2578 |
| 25 | 173 |
| 35 | 37 |
| 45 | 8 |

alphabet

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

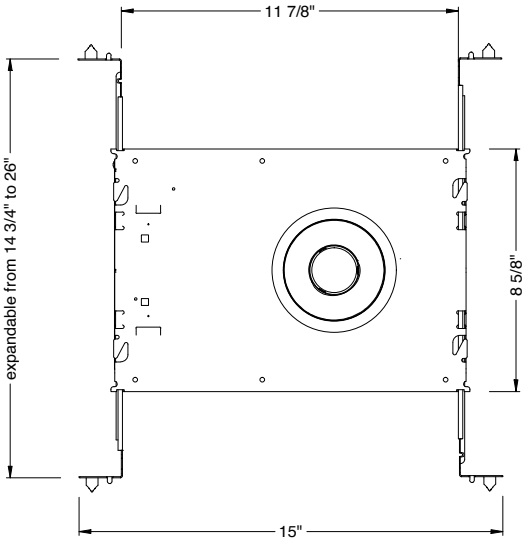
## MOUNTING OPTIONS

### FIXTURE HEIGHT

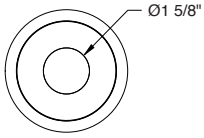



### NC - NEW CONSTRUCTION

#### TRIM

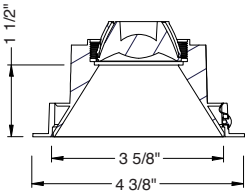



#### ROUND



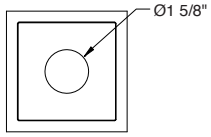

ceiling cutout
4" diameter

ceiling thickness
1/4" to 1"



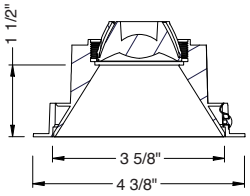

aperture dimensions

#### SQUARE




ceiling cutout
4" x 4" square

ceiling thickness
1/4" to 1"



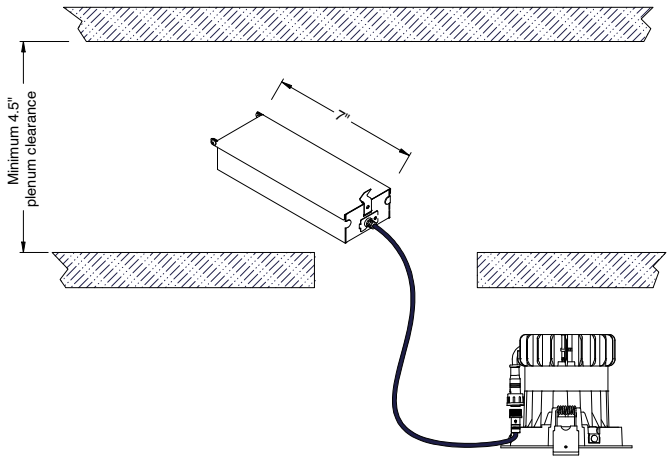

aperture dimensions

alphabet

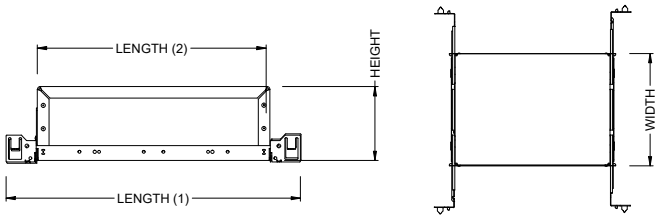
| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

## MOUNTING OPTIONS (CONTINUED)

### NC - RET - NCIC - RETIC




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




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

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

| BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (30° - 80) | | | |
|---|---|---|---|
| LUMEN OUTPUT | BOX - A | | |
| | IC | ICAT | CP |
| 10LM | ✔ | ✔ | ✔ |
| 15LM | ✔ | ✔ | ✔ |
| 20LM | ✔ | ✔ | ✔ |

| CEILING THICKNESS | |
|---|---|
| FIXTURE TYPE | MOUNTING TYPE |
| | NC, IC, ICAT, CP, RET, NCIC, RETIC |
| | STANDARD CEILING THICKNESS |
| TRIM | 1/4" to 1" |
| TRIMLESS | 1/4" to 1" |

alphabet

| 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

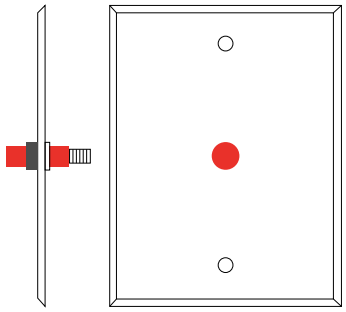
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

### EMERGENCY BATTERY ACCESS

Above ceiling access is required.

### REMOTE LOCATION

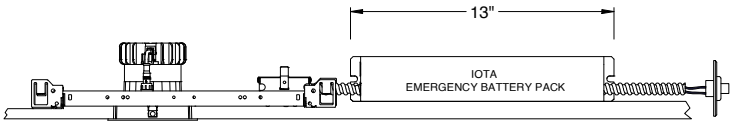
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



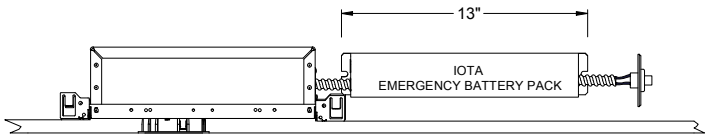
Remote Test Switch

| EM MODE OUTPUT (DELIVERED LUMENS) | | |
|---|---|---|
| LUMEN ORDERING CODE | EM7 | EM10 |
| ALL OPTIONS (10LM TO 20LM) | 750LM | 1070LM |
| **Notes:** Based on 30K, 90CRI | | |

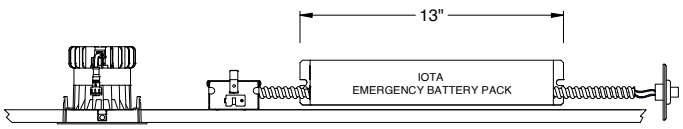
## NC - NEW CONSTRUCTION
### WITH EM BATTERY (REMOTE TEST SWITCH)




## IC / ICAT / CP - INSULATION CONTACT HOUSING
### WITH EM BATTERY (REMOTE TEST SWITCH)

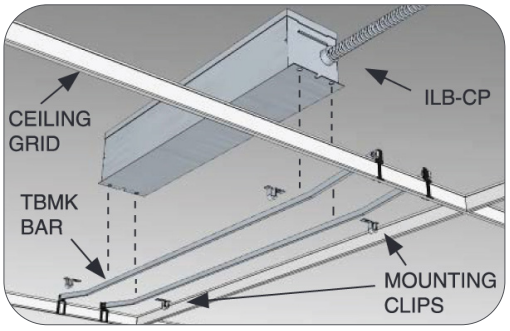



## RET - RETROFIT
### WITH EM BATTERY (REMOTE TEST SWITCH)




**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.