alphabet

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

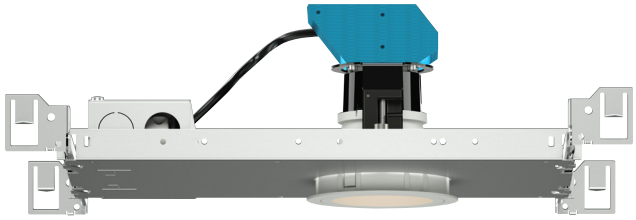
# NU3

## 3" Round Downlight Deep Regress Warm Dim

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

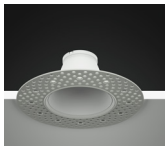
| 15° - 30° BEAM (Note: Specifications are subject to change without notice) | | |
|---|---|---|
| 9mm DYNAMIC COB PERFORMANCE DATA | | |
| LED LIGHT ENGINE | NOMINAL DELIVERED LUMENS | SYSTEM WATTAGE |
| 10LM | 750LM @30K/97CRI | 13W |
| 15LM | 980LM @30K/97CRI | 19W |
| Notes | Delivered lumens based on 30D optic with no lens, (see page 2) | |

| 25° - 35° BEAM (Note: Specifications are subject to change without notice) | | |
|---|---|---|
| 14mm DYNAMIC COB PERFORMANCE DATA | | |
| LED LIGHT ENGINE | NOMINAL DELIVERED LUMENS | SYSTEM WATTAGE |
| 20LM | 1500LM @30K/97CRI | 26W |
| Notes | Delivered lumens based on 35D optic with no lens, (see page 2) | |





Trim



Trimless



Trimless Millwork

### FEATURES
- Quiet ceiling achieved through 2" deep regress
- Superior 32.5° cut off angle
- 1/16" micro flange
- UGR <5
- 15° - 35° optical beam control
- Multiple mounting, glare control options, trims, and finishes available

### DIMMING AND CONTROLS
- eldoLED flicker free 0-10V dimming to 0% and 1%
- eldoLED flicker free DALI dimming to 0% and 1%
- Leading & trailing edge (Triac/ELV) dimming to 1%
- Casambi dimming to 1%
- NLight control interface dimming to 0%

### CONSTRUCTION
- Lexan™ (PC) highly resistant to impact and heat (240°F)
- Optimal material for wireless signal connectivity
- Shatter proof acrylic bezel lens
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/8" to 1-5/8"

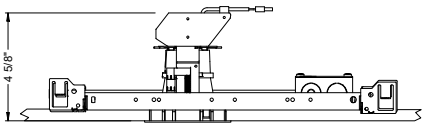
### LED
- Luminus Dim-to-warm COB: 97 CRI: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: $L_{70}$ > 54,000 hrs
- Dim to Warm from 3000K - 1800K.

### 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
- Non-conductive, dead-front construction (Shower Approved)
- NSF/ANSI-2 Listed, with lens (Non-Food and Splash Zones)
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

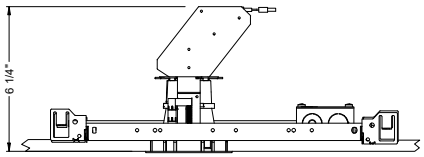
### ELECTRICAL
- 120V only Triac/ELV, 120V-277V
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)

### FIXTURE HEIGHT

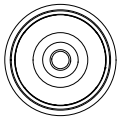
LED LIGHT ENGINE: 1000LM - 1500LM

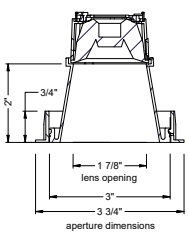



LED LIGHT ENGINE: 2000LM

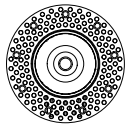


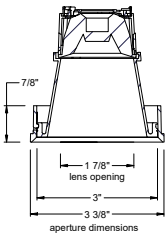

### TRIMMED



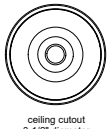



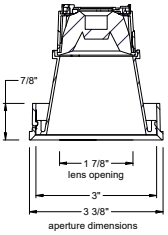

### TRIMLESS




### MILLWORK




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

## 15°- 35° BEAM ORDERING CODE

| | | |
|---|---|---|
| **SERIES** | **NU3** | NU3 |
| **TYPE** | **RDDR** | round downlight deep regress |
| | **RDTDR** | round downlight trimless deep regress |
| | **RDTM-WDR** | round downlight trimless millwork deep regress |
| **LED** | **WD** | warm dim (Luminus) |
| **DELIVERED LUMENS** | **10LM**[1] | 750 lm |
| | **15LM**[1] | 980 lm |
| | **20LM**[2] | 1500 lm |
| | **Standard Configuration:** 30D NL<br>**Calculated Delivered Lumens** = [Delivered Lumen Value] x [Optic Multiplier] x [Lens Multiplier] | |
| **CCT** | **3018** | 3000K, dim to 1800K |

CCT at Light Level (%LF)

| %LF | 30LM | 20LM | 15LM | 10LM |
|---|---|---|---|---|
| 100% | 3000 | 3000 | 3000 | 3000 |
| 50% | 3000 | 3000 | 3000 | 2800 |
| 25% | 2800 | 2800 | 2500 | 2300 |
| 10% | 2200 | 2200 | 2000 | 1900 |
| 5% | 1800 | 1800 | 1800 | 1800 |

| | | | |
|---|---|---|---|
| **CRI** | **97** | 97 CRI | |
| **OPTIC & LM MULTIPLIER** SEE PAGE 3 | **15D** | 15 degrees | (0.93) |
| | **25D** | 25 degrees | (0.93) |
| | **30D** | 30 degrees | (1.00) |
| | **35D** | 35 degrees | (0.99) |
| **BEZEL LENS** SEE PAGE 3 | **NL**[3] | no lens | (1.00) |
| | **DL**[4,5] | diffused lens | (0.82) |
| | **HET**[5] | high efficiency textured lens, similar to Solite™ | (0.97) |
| | **SBL** | smoothing beam lens | (0.92) |
| | **HCL** | honeycomb louver | (0.81) |
| **TRIM COLOR** SEE PAGE 3 | **BK** | black | |
| | **WH** | white | |
| | **MC** | matte chrome | |
| | **BZ** | bronze | |
| | **WT** | wheat | |
| | Not applicable to trimless option. Do not include in trimless ordering code. | | |
| **BEZEL COLOR** SEE PAGE 3 | **BK** | black | (0.85) |
| | **WH** | white | (0.98) |
| | **MC** | matte chrome | (0.94) |
| | **DC** | dark chrome, vacuum metalized | (0.90) |
| | **GN** | gun metal, vacuum metalized | (0.98) |
| | **SA** | specular, vacuum metalized | (1.00) |
| | **CU** | copper, vacuum metalized | (0.94) |
| | **AU** | gold, vacuum metalized | (0.96) |

## 15°- 35° BEAM ORDERING CODE

| | | |
|---|---|---|
| **MOUNTING OPTIONS** SEE PAGE 5, 6 | **NC** | new construction with ceiling fitting plate |
| | **IC** | insulation contact housing |
| | **ICAT** | insulation contact/airtight housing |
| | **CP** | chicago plenum housing |
| | **RET** | retrofit, no ceiling fitting plate |
| **VOLTAGE** | **120** | 120V |
| | **UNV** | 120V-277V |
| **DIMMING** | **DIM10** | eldoLED flicker free 0-10V dimming to 1% |
| | **DIM10Z** | eldoLED flicker free 0-10V dimming to 0% |
| | **DALI** | eldoLED flicker free DALI-2 dimming to 1% |
| | **DALIZ** | eldoLED flicker free DALI-2 dimming to 0% |
| | **ELV1**[6] | leading & trailing edge (Triac/ELV) dimming to 1% |
| | **CAS** | Casambi control with flicker free 1% dimming |
| | **NLT** | nLight control interface: standard Cat-5/RJ45 connection (female), dim to off |
| **ELECTRICAL OPTIONS** | **EM7** | emergency battery backup, 90 minutes at 7W to LED |
| | **EM12** | emergency battery backup, 90 minutes at 12W to LED |
| | **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:

**NU3 - RDDR - WD - 20LM - 3018 - 97 - 25D - SBL - WH - DC - NC - UNV - DIM10 - EM7**

### NOTES

1. 10LM/15LM only available in 15D/25D/30D optics.
2. 20LM only available in 25D/35D optics.
3. NL option does not meet requirement for AT/DF/WET/NSF listing
4. DL/HET lens option not recommended with WHITE bezel color, UGR>20.
5. DL/HET lens options available in DC/GN/SA/CU/AU color with 30D/50D optics.
6. ELV available in 120V.

* Warm Dim CCT values at X% are for reference. Actual CCT may vary.
* EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

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| PROJECT INFORMATION | | | |
|---|---|---|---|
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## TRIM OPTIONS

### TRIM/BEZEL COLORS




BK WH MC CU DC GN AU SA

## OPTICAL OPTIONS

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

### HCL
Honeycomb Louver



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 15D | 15.2 | ≤5 |
| 25D | 21.6 | ≤5 |

### NL
No Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 15D | 15.4 | ≤5 |
| 25D | 23 | 6.8 |

### DL
Diffused Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 15D | 18.9 | ≤5 |
| 25D | 35.2 | 13.2 |
| 30D | 41.5 | 14.1 |

### NL*
No Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 15D | 16.8 | 13.8 |
| 25D | 23.6 | 12.3 |
| 30D | 31.6 | 11.6 |

* White Bezel

### SBL
Smoothing Beam Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 15D | 15.8 | ≤5 |
| 25D | 22.9 | ≤5 |

### HET
High Efficiency Textured Lens



| OPTIC | BEAM ANGLE | UGR |
|---|---|---|
| 15D | 18.9 | ≤5 |
| 25D | 25.2 | 7.2 |
| 30D | 30 | 7.7 |

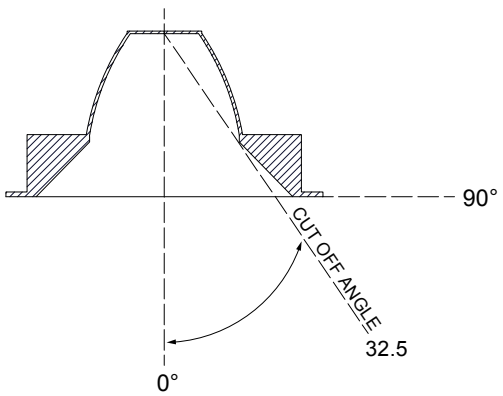
## GLARE CONTROL

### 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 32.5 degrees;




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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.

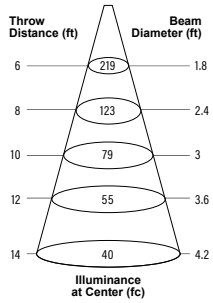
alphabet

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

## PHOTOMETRIC DATA

### 15LM

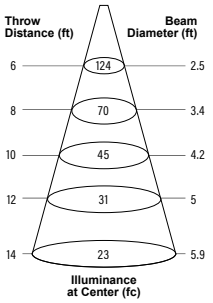
**15D**
**17° NO LENS, WHITE BEZEL**




| WATTS: 19.5 | LPW: 46.6 |
|---|---|
| LUMENS: 908 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 7866 |
| 5 | 6127 |
| 15 | 1138 |
| 25 | 58 |
| 35 | 25 |
| 45 | 23 |

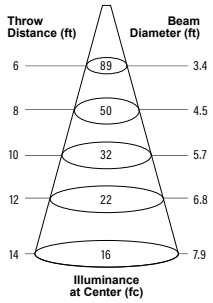
**25D**
**24° NO LENS, WHITE BEZEL**




| WATTS: 19.5 | LPW: 46.4 |
|---|---|
| LUMENS: 905 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 4469 |
| 5 | 3918 |
| 15 | 1445 |
| 25 | 235 |
| 35 | 27 |
| 45 | 14 |

**30D**
**32° NO LENS, WHITE BEZEL**

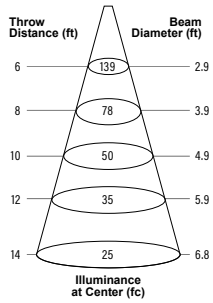



| WATTS: 19.5 | LPW: 50 |
|---|---|
| LUMENS: 974 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 3211 |
| 5 | 3058 |
| 15 | 1757 |
| 25 | 343 |
| 35 | 21 |
| 45 | 13 |

### 20LM

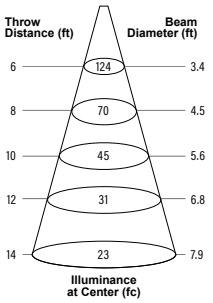
**25D**
**27° HET LENS, SA BEZEL**




| WATTS: 26.3 | LPW: 50.5 |
|---|---|
| LUMENS: 1329 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 4993 |
| 5 | 4681 |
| 15 | 2151 |
| 25 | 518 |
| 35 | 79 |
| 45 | 18 |

**35D**
**32° HET LENS, SA BEZEL**




| WATTS: 26.3 | LPW: 54.2 |
|---|---|
| LUMENS: 1426 | CCT: 3000K |

| INTENSITY | |
|---|---|
| DEGREE | CANDELA |
| 0 | 4447 |
| 5 | 4286 |
| 15 | 2376 |
| 25 | 654 |
| 35 | 88 |
| 45 | 18 |

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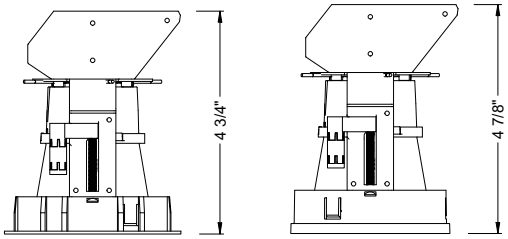
alphabet

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

## MOUNTING OPTIONS

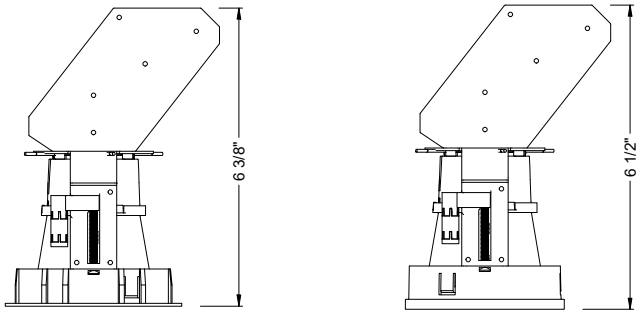
### FIXTURE HEIGHT

#### LED LIGHT ENGINE: 1000LM - 1500LM




TRIMMED | TRIMLESS & MILLWORK

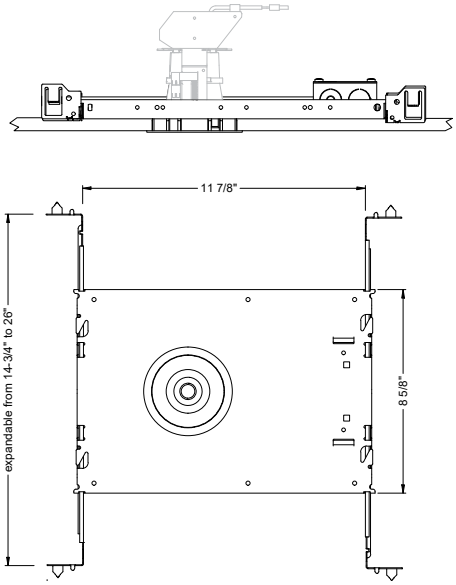
#### LED LIGHT ENGINE: 2000LM



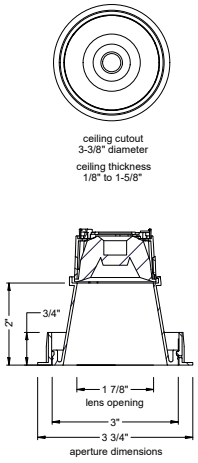

TRIMMED | TRIMLESS & MILLWORK

### NC - NEW CONSTRUCTION

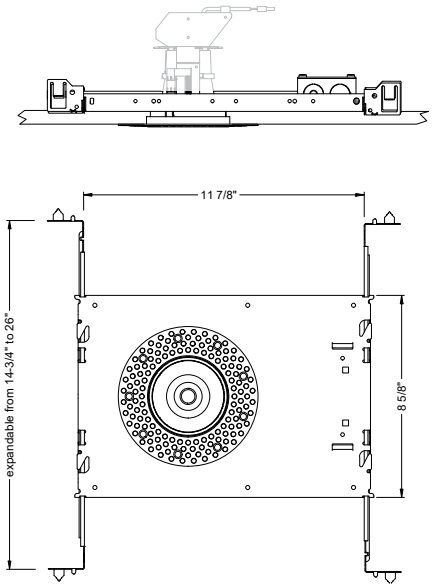
#### TRIM



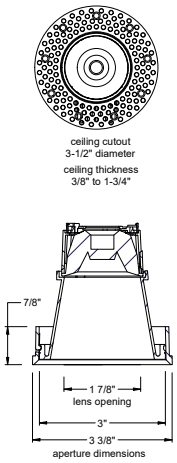

#### TRIM



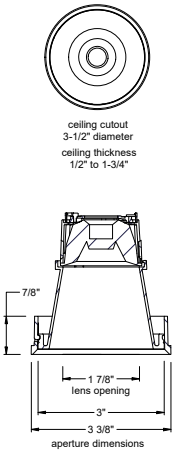

#### TRIMLESS




#### TRIMLESS




#### TRIMLESS/MILLWORK



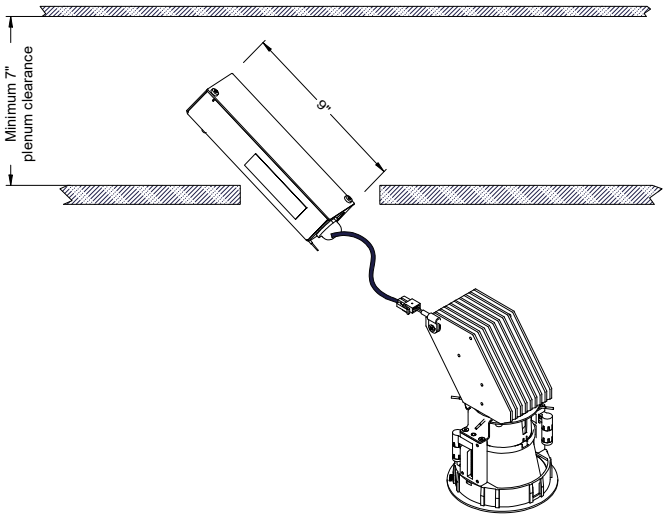

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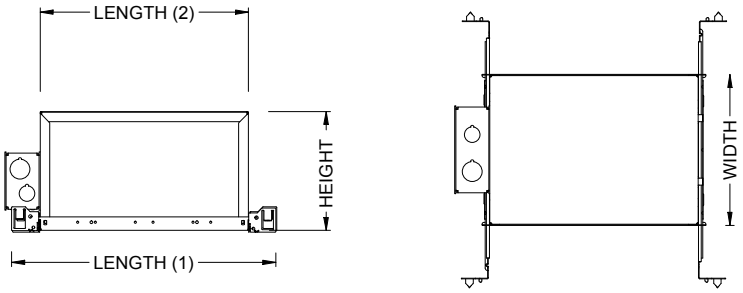
| PROJECT INFORMATION | | | |
|---|---|---|---|
| JOB NAME | | TYPE | |
| ORDERING CODE | | | |

## MOUNTING OPTIONS (CONTINUED)

### RET - RETRO
TRIM/TRIMLESS




### 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" |
| B | 18 - 1/4" | 14 - 7/8" | 12 - 1/8" | 11 - 1/4" |
| C | 18 - 1/4" | 14 - 7/8" | 12 - 1/8" | 6 - 3/4" |

| 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 | ✔ | ✔ | ✔ | ✔ | ✔ |

| CEILING THICKNESS | |
|---|---|
| FIXTURE TYPE | MOUNTING TYPE |
| | NC, IC, ICAT, CP, RET |
| TRIM | 1/8" to 1-5/8" |
| TRIMLESS | 3/8" to 1-3/4" |
| MILLWORK (TRIMLESS) | 1/2" to 1-3/4" |

| BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (25° - 35°) | | | | | |
|---|---|---|---|---|---|
| LUMEN OUTPUT | BOX - A | | | BOX - B | BOX -C |
| | CP | IC | ICAT | IC | ICAT |
| 20LM | | | | ✔ | |

| BOX TYPE / LUMEN OUTPUT - NARROW BEAMS (15° - 30°) | | | | | |
|---|---|---|---|---|---|
| LUMEN OUTPUT | BOX - A | | | BOX - B | BOX -C |
| | CP | IC | ICAT | IC | ICAT |
| 10LM | ✔ | ✔ | ✔ | | |
| 15LM | ✔ | ✔ | ✔ | | |

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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

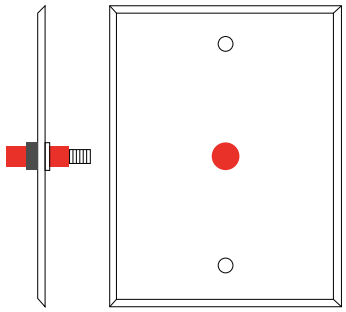
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

### EMERGENCY BATTERY ACCESS

Above ceiling access is 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

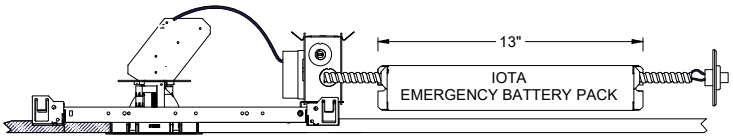
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



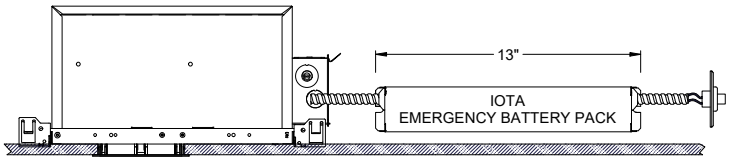
Remote Test Switch

| EM MODE OUTPUT (DELIVERED LUMENS) | | | |
|---|---|---|---|
| LUMEN ORDERING CODE | EM7 | EM10 | EM12 |
| ALL OPTIONS (10LM TO 30LM) | 400LM | 570LM | 700LM |
| **Notes:** Based on 30K, 97CRI | | | |

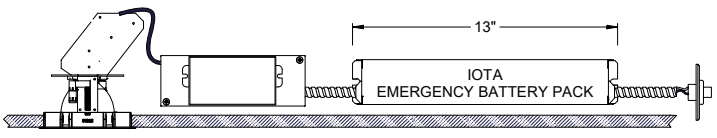
## NC - NEW CONSTRUCTION
### WITH EM BATTERY (REMOTE TEST SWITCH)




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

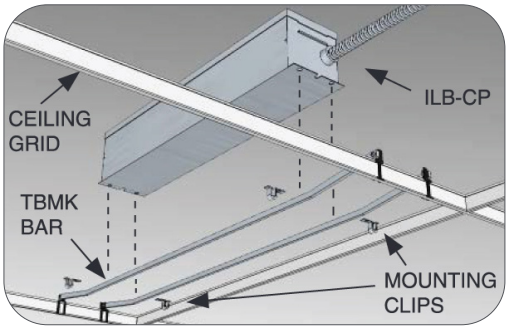



## RET - RETROFIT
### WITH EM BATTERY (REMOTE TEST SWITCH)




**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.

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