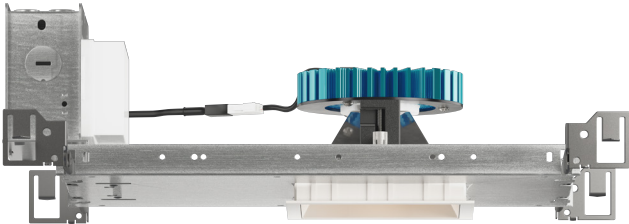
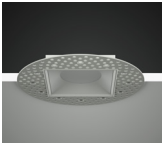


NU4

4" Square Downlight Standard White



Trim



Trimless



Trimless Millwork

FEATURES

- 3/4" bezel regress with 1/16" micro flange
- 8° - 80° optical beam control
- UGR < 17
- Glare control, specialty optics, trim options, and custom finishes available
- Microban® antimicrobial finish available on all exposed painted surfaces

LED

- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L<sub>70</sub> > 66,000 hrs
- 80 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L<sub>70</sub> > 66,000 hrs

DIMMING AND CONTROLS

- eldoLED flicker free 0-10V dimming to 0% and 1%
- eldoLED flicker free DALI dimming to 0% and 1%
- DMX dim to zero
- Lutron Hi-lume 1% 3-wire/Ecosystem
- Lutron athena wireless node
- Leading & trailing edge (Triac/ELV) dimming to 1%
- Casambi dimming to 1.0%
- NLight control interface dimming to 0%

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 with lens (Non-Food and Splash Zones)
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

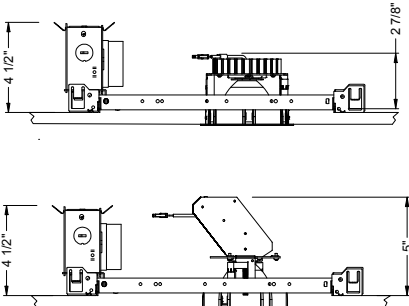
CONSTRUCTION

- 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 3/8" to 1-5/8"

ELECTRICAL

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

FIXTURE HEIGHT



TRIMMED

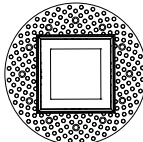


ceiling cutout 4-1/4" square  
ceiling thickness 3/8" to 1-5/8"

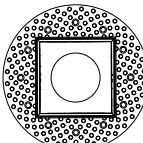


ceiling cutout 4-1/4" square  
ceiling thickness 3/8" to 1-5/8"

TRIMLESS



ceiling cutout 4-1/4" square  
ceiling thickness 3/8" to 1-3/4"



ceiling cutout 4-1/4" square  
ceiling thickness 3/8" to 1-3/4"

MILLWORK



ceiling cutout 4-1/4" square  
ceiling thickness 5/8" to 1-3/4"



ceiling cutout 4-1/4" square  
ceiling thickness 5/8" to 1-3/4"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

60°- 80° BEAM ORDERING CODE												
SERIES	NU4	NU4										
TYPE	QD	square downlight										
	QDT	square downlight trimless										
	QDTMW	square downlight trimless millwork										
LED	SW	standard white										
DELIVERED LUMENS	10LM	900 lm										
	15LM	1350 lm										
	20LM	1910 lm										
	25LM	2310lm										
	30LM	2810 lm										
	35LM	3270 lm										
	40LM	3800 lm										
	Standard Configuration: 3000K 80CRI WH80 Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]											
CCT	27K	2700K	CCT		2700K		3000K		3500K		4000K	
	30K	3000K	CRI		80+	90+	80+	90+	80+	90+	80+	90+
	35K	3500K	CCT MULTIPLIER FOR LUMEN OUTPUT		0.96	0.81	1.00	.85	1.03	.88	1.06	.91
	40K	4000K										
CRI	80	80 CRI										
	90	90 CRI										
OPTIC & LM MULTIPLIER SEE PAGE 3	HE60	60° high efficiency diffused lens										(0.96)
	HE70	70° high efficiency diffused lens										(0.88)
	HE80	80° high efficiency diffused lens										(0.95)
	D65	65° diffused with clear lens										(0.96)
	WH80	80° brilliant white with clear lens										(1.00)
BEZEL LENS SEE PAGE 3	NL <sup>1,2</sup>	no lens										
TRIM COLOR SEE PAGE 3	BK	black										
	WH	white										
	MC	matte chrome										
	BZ	bronze										
	WT	wheat										
	CC <sup>3</sup>	custom color, consult factory for details										
Antimicrobial finish, add <b>AM</b> 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 3	BK	black										(0.98)
	WH	white										(1.00)
	MC	matte chrome										(0.99)
	BZ	bronze										(0.98)
	WT	wheat										(0.99)
	CC <sup>3</sup>	custom color, consult factory for details										
Antimicrobial finish, add <b>AM</b> to black, white or matte chrome i.e. BKAM.												

60°- 80° BEAM ORDERING CODE		
MOUNTING OPTIONS SEE PAGE 5, 6	NC	new construction with ceiling fitting plate
	IC <sup>4</sup>	insulation contact housing
	ICAT <sup>4</sup>	insulation contact/airtight housing
	CP <sup>4</sup>	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 dimming to 1%
	DALIZ	eldoLED flicker free DALI dimming to 0%
	DMX-RJ45	DMX control dimming to 0.1% with RJ45 connection
	DMX-WL	DMX control dimming to 0.1% with wire lead connection
	DMX-XLR	DMX control dimming to 0.1% with XLR 5pin connection
	LUT	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
	LUTP <sup>5</sup>	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELV1 <sup>6</sup>	leading & trailing edge (Triac/ELV) dimming to 1%
	NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dim to off
ELECTRICAL OPTIONS	CAS	Casambi wireless mesh control with flicker free 1% dimming
	AWN <sup>7</sup>	lutron athena wireless node
	EM7 <sup>8</sup>	emergency battery backup, 90 minutes at 7W to LED
	EM12 <sup>8</sup>	emergency battery backup, 90 minutes at 12W to LED
	EM10CA20 <sup>8</sup>	emergency battery backup, 90 minutes at 10W to LED, CA title 20

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

YOUR COMPLETED ORDERING CODE	
Follow the steps to specify your fixture, example:	
NU4 - QD - SW - 20LM - 35K - 90 - HE60 - WH - WH - NC - DIM10	

NOTES

1. NL available for D65/WH80.
2. NL option does not meet requirement for AT/DF/WET/NSF listings.
3. Custom set up fee plus minimum quantity required per color.
4. IC/ICAT/CP not available in 40LM.
5. LUTP not available in 25LM/30LM/40LM.
6. ELV1 (120V) not available in 10LM.
7. AWNR reference page 13 for product specifications on Athena wireless node.
8. For integrated test switch add "ITS" after emergency backup code, i.e. EM12ITS. Test switch is mounted in the bezel of the fixture.

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

# alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

## QD TRIM

### TRIM/BEZEL COLORS



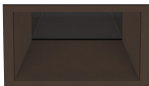
WH



MC



BK



BZ



WT

## 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.

### CL

Clear Lens



OPTIC	BEAM ANGLE	UGR
D65	68	20.1
WH80	77	22.8

### HE

High Efficiency Lens



OPTIC	BEAM ANGLE	UGR
HE60	67	22.5
HE70	74	22.8
HE80	82	24.2

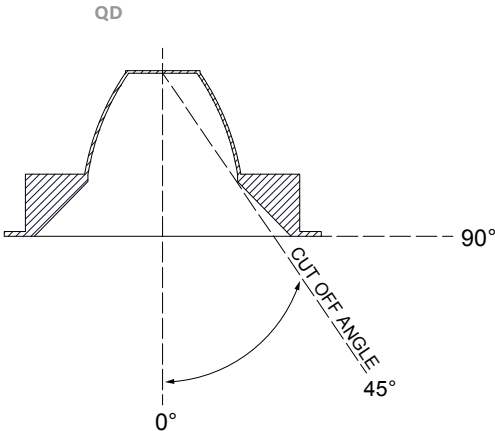
## GLARE CONTROL

### 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.

- QD Cutoff angle of CL is 45 degrees;



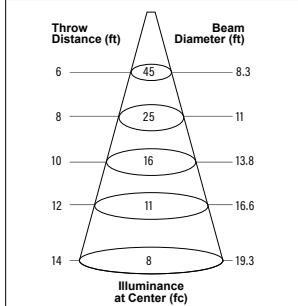
PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## QD PHOTOMETRIC DATA

### 20LM CCT MULTIPLIERS

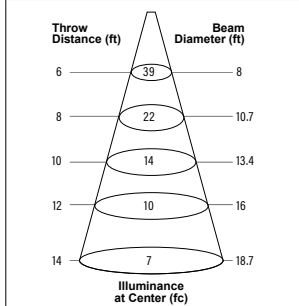
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance <sup>2</sup>		

### D65 69° DIFFUSED WITH CLEAR LENS



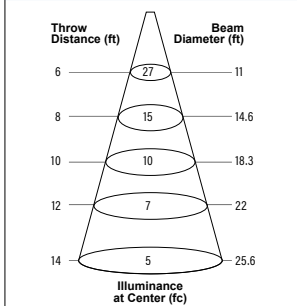
WATTS:: 17.2	LPW:: 106.6
LUMENS: 1833	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	1625
5	1603
15	1431
25	1143
35	792
45	178

### HE60 67° HIGH EFFICIENCY DIFFUSED LENS



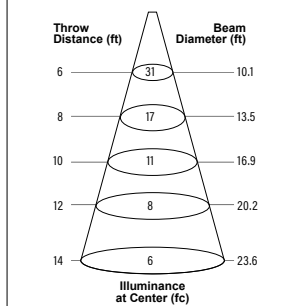
WATTS:: 17.2	LPW:: 105.9
LUMENS: 1821	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	1415
5	1392
15	1226
25	966
35	667
45	334

### HE80 85° HIGH EFFICIENCY DIFFUSED LENS



WATTS:: 17.2	LPW:: 104.8
LUMENS: 1803	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	977
5	971
15	923
25	826
35	670
45	417

### WH80 80° BRILLIANT WHITE WITH CLEAR LENS

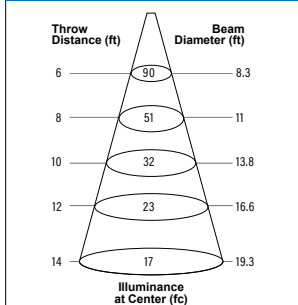


WATTS:: 17.2	LPW:: 110.9
LUMENS: 1907	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	1109
5	1105
15	1074
25	998
35	861
45	319

### 40LM CCT MULTIPLIERS

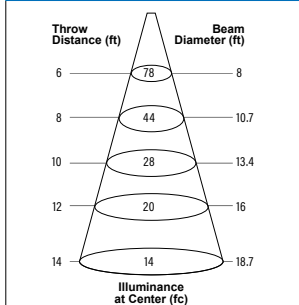
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance <sup>2</sup>		

### D65 69° DIFFUSED WITH CLEAR LENS



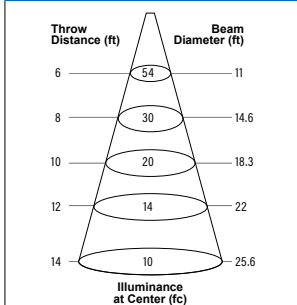
WATTS:: 37.3	LPW:: 98
LUMENS: 3657	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	3243
5	3198
15	2855
25	2281
35	1580
45	355

### HE60 67° HIGH EFFICIENCY DIFFUSED LENS



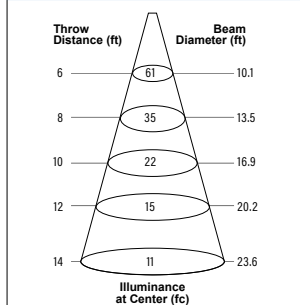
WATTS:: 37.3	LPW:: 97.4
LUMENS: 3634	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	2823
5	2777
15	2447
25	1928
35	1331
45	666

### HE80 85° HIGH EFFICIENCY DIFFUSED LENS



WATTS:: 37.3	LPW:: 96.4
LUMENS: 3597	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	1950
5	1938
15	1842
25	1649
35	1338
45	833

### WH80 80° BRILLIANT WHITE WITH CLEAR LENS



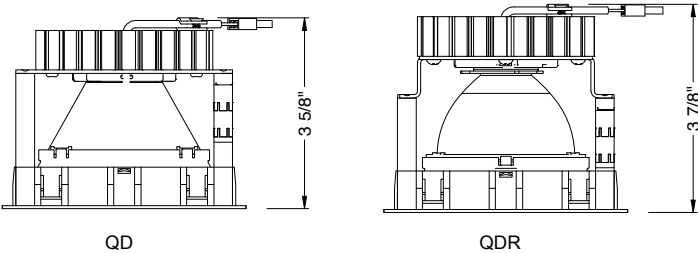
WATTS:: 37.3	LPW:: 102
LUMENS: 3805	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	2212
5	2205
15	2142
25	1991
35	1718
45	636

PROJECT INFORMATION		
JOB NAME	TYPE	
ORDERING CODE		

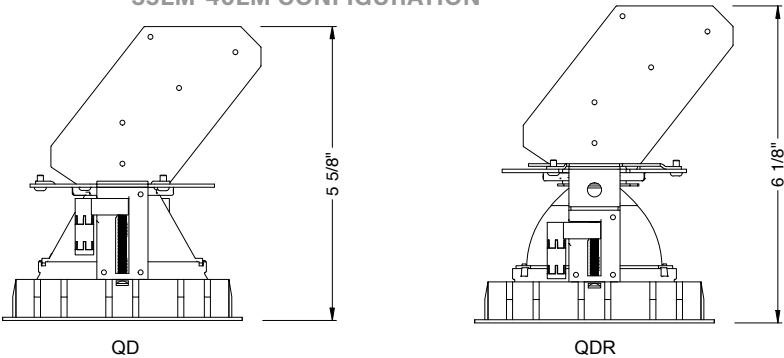
MOUNTING OPTIONS

FIXTURE HEIGHT

10LM-30LM CONFIGURATION

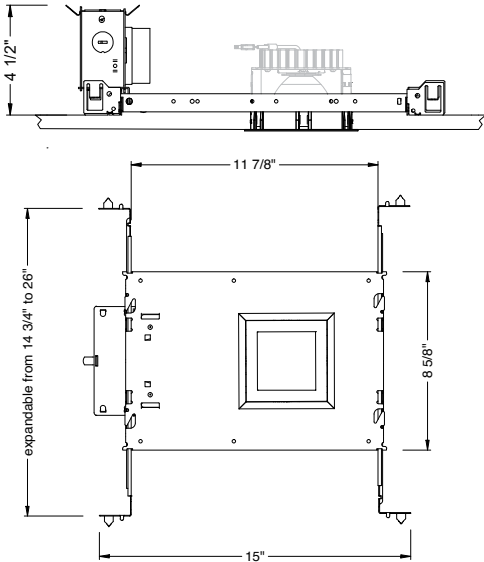


35LM-40LM CONFIGURATION

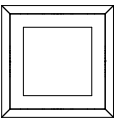


NC - NEW CONSTRUCTION

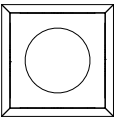
TRIM



TRIM

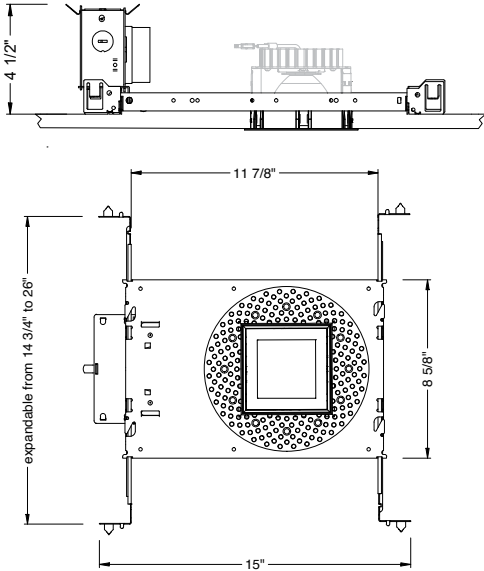


ceiling cutout 4-1/4" square  
ceiling thickness 3/8" to 1-5/8"

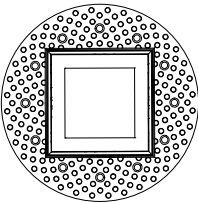


ceiling cutout 4-1/4" square  
ceiling thickness 3/8" to 1-5/8"

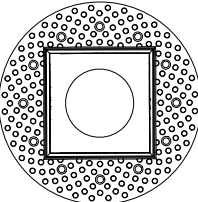
TRIMLESS



TRIMLESS

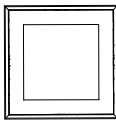


ceiling cutout 4-1/4" square  
ceiling thickness 3/8" to 1-3/4"

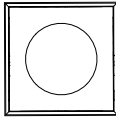


ceiling cutout 4-1/4" square  
ceiling thickness 3/8" to 1-3/4"

TRIMLESS/MILLWORK



ceiling cutout 4-1/4" square  
ceiling thickness 5/8" to 1-3/4"

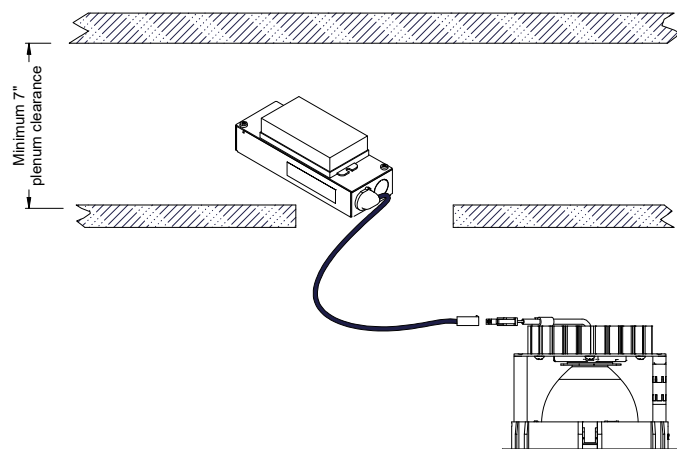


ceiling cutout 4-1/4" square  
ceiling thickness 5/8" to 1-3/4"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

## MOUNTING OPTIONS (CONTINUED)

### RET - RETRO TRIM/TRIMLESS



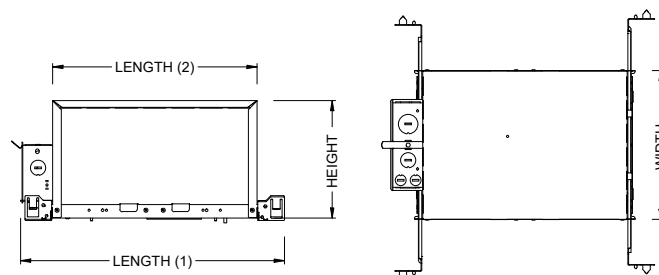
RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✓	✓			
TYPE IC			✓	✓	✓
CHICAGO PLENUM (CCEA)					✓
SUITABLE FOR AIR HANDLING PLENUMS				✓	✓
REDUCED AIRFLOW (WITH LENS) ASTM E283	✓	✓	✓	✓	✓

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

### 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"
B	18 - 1/4"	14 - 7/8"	12 - 1/8"	11 - 1/4"

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS						
LUMEN OUTPUT	BOX - A			BOX - B		
	IC	ICAT	CP	IC	ICAT	CP
10LM	✓	✓	✓			
15LM	✓	✓	✓			
20LM	✓	✓	✓			
25LM	✓	✓	✓			
30LM				✓	✓	✓
35LM						
40LM						

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 Luminaires.

REMOTE TEST SWITCH

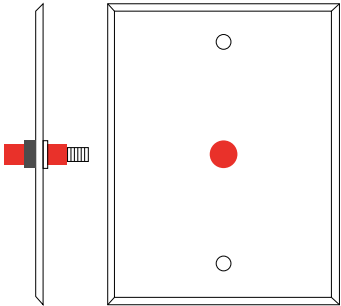
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS

Above ceiling access is required for service. An access panel in the ceiling (or other form of access) adjacent to the installation location of the Emergency Battery is required.

REMOTE LOCATION

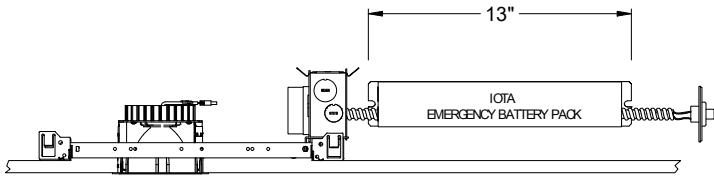
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



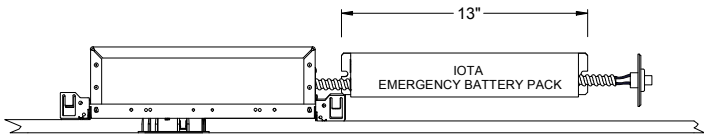
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 40LM)	650LM	930LM	1000LM
Notes: Based on 30K, 80CRI			

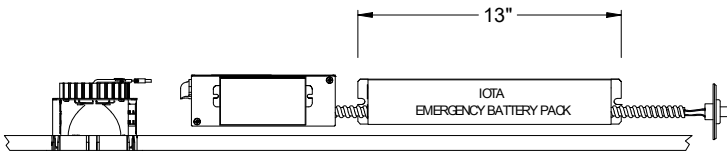
NC - NEW CONSTRUCTION  
WITH EM BATTERY (REMOTE TEST SWITCH)



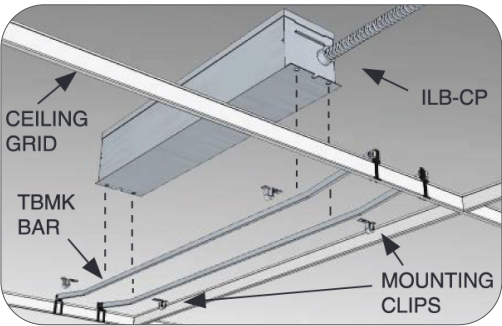
IC / ICAT / CP - INSULATION CONTACT HOUSING  
WITH EM BATTERY (REMOTE TEST SWITCH)



RET - RETROFIT  
WITH EM BATTERY (REMOTE TEST SWITCH)



Accessory  
76066 Optional T-Grid Mounting Kit<sup>2</sup>



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

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

## AWNRR OPTIONS

### 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

#### AWNRR

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.

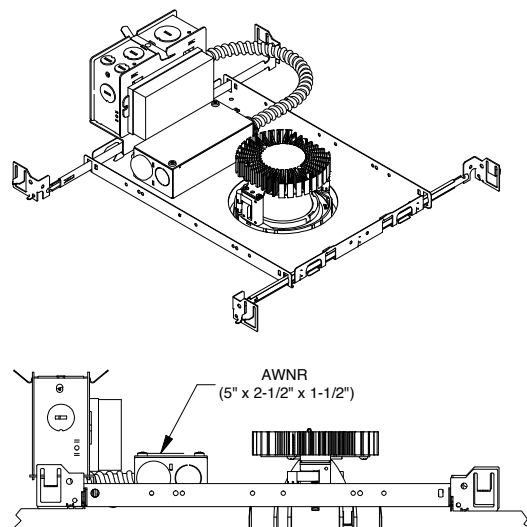
#### Note: Default behavior prior to programming

- 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 AWNRR.**

### NC - NEW CONSTRUCTION



### RET - RETRO FIT

