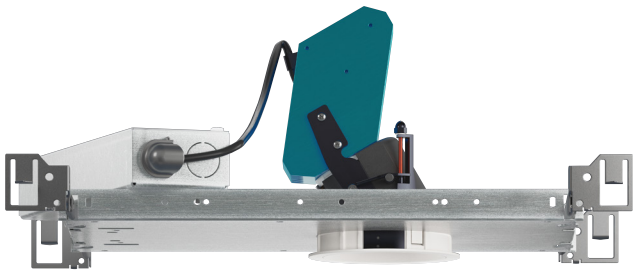
alphabet

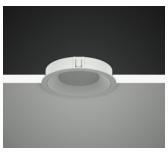
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU3

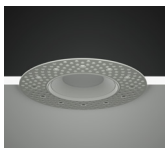
3" Round Adjustable Hospitality CCTs

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





Trim



Trimless



Trimless Millwork

20° - 55° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	880LM @24K/90CRI	11W
15LM	1520LM @24K/90CRI	19W
20LM	1940LM @24K/90CRI	25W
25LM	2440LM @24K/90CRI	34W
Notes	Delivered lumens based on 35D optic with no lens, (see page 2)	

15° BEAM (Note: Specifications are subject to change without notice)		
6mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	850LM @24K/90CRI	11W
12LM	1130LM @24K/90CRI	16W
Notes	Delivered lumens based on 15D optic with no lens, (see page 2)	

FEATURES
- True 30° Tilt with <5% beam disruption (clipping)
- Zero ceiling line obstruction at Full Tilt
- Concentric Tilt Tracking ensures minimal light loss
- 360° full rotation
- 9° - 55° optical beam control
- UGR <5
- Multiple mounting and glare control options

DIMMING AND CONTROLS
- eldoLED flicker free 0-10V dimming to 0% and 1%
- eldoLED flicker free DALI dimming to 0% and 1%
- Lutron Hi-lume 0.1% Ecosystem
- Lutron athena wireless node
- 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 0.2" to 1.25"

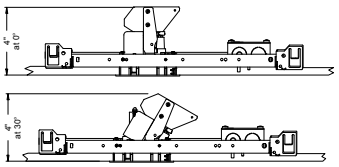
LED
- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L_{70} > 66,000 hrs

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

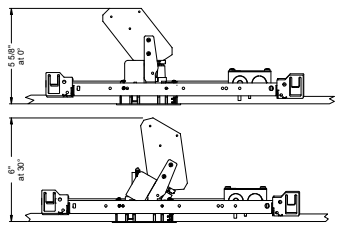
ELECTRICAL
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)

FIXTURE HEIGHT

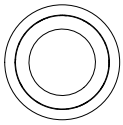
LED LIGHT ENGINE: 10LM - 15LM



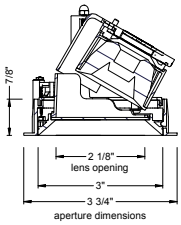
LED LIGHT ENGINE: 20LM - 25LM



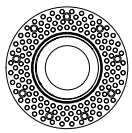
TRIMMED



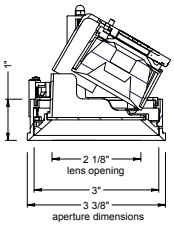
ceiling cutout 3-3/8" diameter
ceiling thickness 0.2" to 1.25"



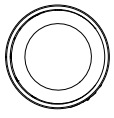
TRIMLESS



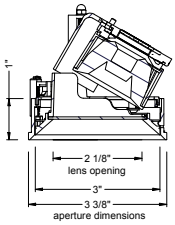
ceiling cutout 3-1/2" diameter
ceiling thickness 0.2"to1.25"



MILLWORK



ceiling cutout 3-3/8" diameter
ceiling thickness 0.3" to 1.25"



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

15°- 55° BEAM ORDERING CODE

SERIES	**NU3**	NU3
TYPE	**RA**	round adjustable
	RAT	round adjustable trimless
	RATMW	round adjustable trimless millwork
LED	**SW**	standard white
DELIVERED LUMENS	**10LM**	880 lm
	15LM	1520 lm
	20LM	1940 lm
	25LM	2440 lm
	Standard Configuration: 2400K 90CRI 35D **NL**	
	Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Optic Multiplier] x [Lens Multiplier]	
CCT	**22K**	2200K (0.94)
	24K	2400K (1.00)

CCT	2200K	2400K
CRI	90+	90+
CCT MULTIPLIER FOR LUMEN OUTPUT	0.94	1

CRI	**90**	90 CRI	
OPTIC & LM MULTIPLIER SEE PAGE 3	**15D**[1]	15 degrees	(1.00)
	20D	20 degrees	(0.89)
	25D	25 degrees	(0.90)
	35D	35 degrees	(1.00)
	55D	55 degrees	(0.96)
TIR OPTIC ACCESSORY SEE PAGE 3	**NA**	no accessory	
	HETA	high efficiency textured lens, similar to Solite™	
	HCL	honeycomb louver	(0.70)
	EA[2]	elliptical lens	
BEZEL LENS SEE PAGE 3	**NL**[3]	no lens	(1.00)
	CL	clear lens	(0.92)
	DL	diffused lens	(0.91)
	HET	high efficiency textured lens, similar to Solite™	(0.92)
	SBL	smoothing beam lens	(0.92)
TRIM COLOR SEE PAGE 3	**BK**	black	
	WH	white	
	MC	matte chrome	
	BZ	bronze	
	WT	wheat	
	CC	custom color, consult factory for details	
	Antimicrobial finish, add **AM** 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	
	WH	white	
	BZ	bronze	
	MC	matte chrome	
	WT	wheat	
	CC	custom color, consult factory for details	
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.		

15°- 55° BEAM ORDERING CODE

MOUNTING OPTIONS SEE PAGE 6, 7	**NC**	new construction with ceiling fitting plate
	IC[4]	insulation contact housing
	ICAT[4]	insulation contact/airtight housing
	CP[4]	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%
	LUTP[5]	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELV1	leading & trailing edge (Triac/ELV) dimming to 1%
	NLT[6]	nLight control interface: standard Cat-5/RJ45 connection (female), dim to off
	CAS	Casambi control with flicker free 1% dimming
	AWNR[7]	lutron athena wireless node
ELECTRICAL OPTIONS	**EM7**	emergency battery backup, 90 minutes at 7W to LED
	EM12	emergency battery backup, 90 minutes at 12W to LED
	EM10CA20	remote 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)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

NU3 - RA - SW - 20LM - 24K - 90 - 20D - NA - NL - WH - WH - NC - UNV - DIM10 - EM7

NOTES

1. 15D available in 10LM/15LM. Not available with DL lens.
2. Elliptical lens not available with 15D optics.
   Actual beam distributions [20D= 25° x 60° , 25D= 40° x 65° , 35D= 45° x 70° , 55D= 55° x 80°]
3. NL option does not meet requirement for AT/DF/WET/NSF listings.
4. IC/ICAT/CP not available in 10LM or 25LM.
5. LUTP not available in 25LM
6. For servicing access above ceiling is required.
7. AWNR reference page 9 for product specifications on Athena wireless node.

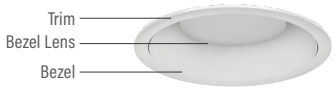
* *EldoLED uses logarithmic dimming curve as standard.
For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

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.

TIR OPTIC ACCESSORY
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
15D*	14	≤5
20D	18	≤5
25D	23	≤5
35D	28	≤5
55D	47	14

* 15D UGR calculation based on 10LM fixtures

NL
No Lens



OPTIC	BEAM ANGLE	UGR
15D*	15	≤5
20D	19	≤5
25D	25	6.5
35D	32	6.5
55D	55	16.8

* 15D UGR calculation based on 10LM fixtures

CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
15D*	15	≤5
20D	19	≤5
25D	25	6.4
35D	32	6.4
55D	55	16.5

* 15D UGR calculation based on 10LM fixtures

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
20D	37	17.5
25D	41	19.3
35D	44	20.2
55D	58	23

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
15D*	19	≤5
20D	23	6.3
25D	28	10.5
35D	33	11.6
55D	53	17.5

* 15D UGR calculation based on 10LM fixtures

SBL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
15D*	15	≤5
20D	20	≤5
25D	25	7.9
35D	32	7.9
55D	55	16.5

* 15D UGR calculation based on 10LM fixtures

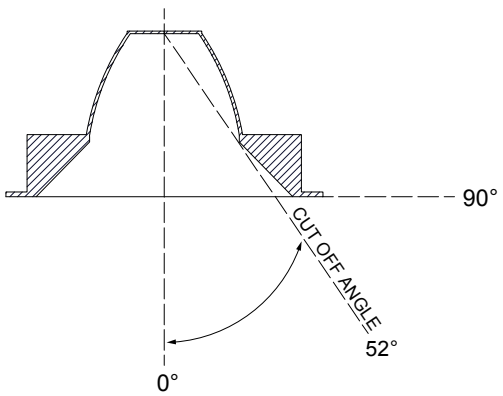
GLARE CONTROL

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 52° degrees;



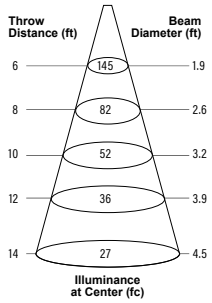
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

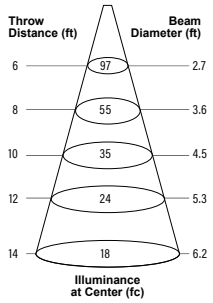
10LM	
	90CRI
2200K	0.94
2400K	1
FC Formula = CBCP / Distance^2	

20D 19° WITH NO LENS



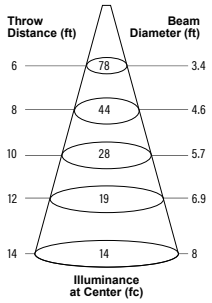
WATTS: 10.5	LPW: 69.1
LUMENS: 726	CCT: 2400K
INTENSITY	
DEGREE	CANDELA
0	5233
5	4246
15	1110
25	110
35	13
45	2

25D 25° WITH NO LENS



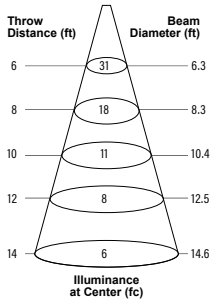
WATTS: 10.5	LPW: 76.3
LUMENS: 802	CCT: 2400K
INTENSITY	
DEGREE	CANDELA
0	3499
5	3101
15	1317
25	289
35	36
45	5

35D 32° WITH NO LENS



WATTS: 10.5	LPW: 84.4
LUMENS: 886	CCT: 2400K
INTENSITY	
DEGREE	CANDELA
0	2803
5	2648
15	1543
25	419
35	33
45	4

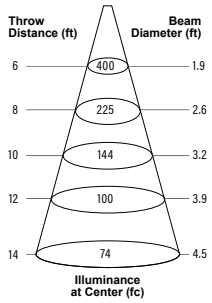
55D 55° WITH NO LENS



WATTS: 10.5	LPW: 80.7
LUMENS: 847	CCT: 2400K
INTENSITY	
DEGREE	CANDELA
0	1110
5	1117
15	1062
25	699
35	180
45	14

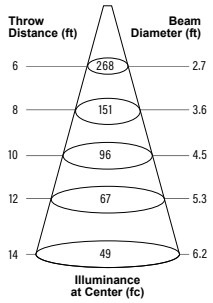
25LM	
	90CRI
2200K	0.94
2400K	1
FC Formula = CBCP / Distance^2	

20D 19° WITH NO LENS



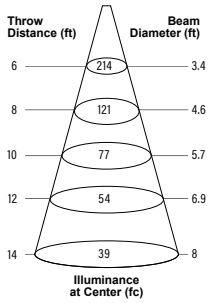
WATTS: 34.4	LPW: 58.1
LUMENS: 1999	CCT: 2400K
INTENSITY	
DEGREE	CANDELA
0	14411
5	11693
15	3056
25	304
35	35
45	6

25D 25° WITH NO LENS



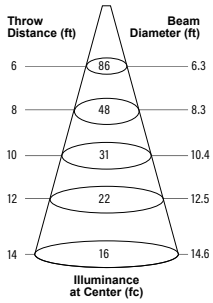
WATTS: 34.4	LPW: 64.2
LUMENS: 2207	CCT: 2400K
INTENSITY	
DEGREE	CANDELA
0	9637
5	8541
15	3627
25	796
35	99
45	13

35D 32° WITH NO LENS



WATTS: 34.4	LPW: 71
LUMENS: 2441	CCT: 2400K
INTENSITY	
DEGREE	CANDELA
0	7718
5	7294
15	4250
25	1155
35	92
45	11

55D 55° WITH NO LENS



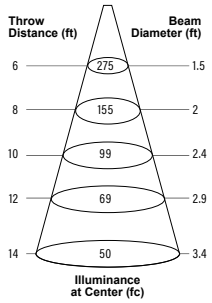
WATTS: 34.4	LPW: 67.8
LUMENS: 2334	CCT: 2400K
INTENSITY	
DEGREE	CANDELA
0	3057
5	3076
15	2924
25	1924
35	494
45	37

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

10LM	
	90CRI
2200K	0.94
2400K	1
FC Formula = CBCP / Distance^2	

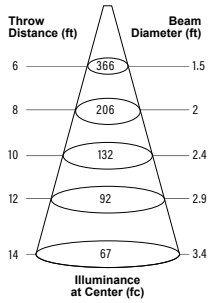
15D
15° WITH NO LENS



WATTS: 11.3	LPW: 74.8
LUMENS: 846	CCT: 2400K
INTENSITY	
DEGREE	CANDELA
0	9898
5	6841
15	973
25	61
35	7
45	1

12LM	
	90CRI
2200K	0.94
2400K	1
FC Formula = CBCP / Distance^2	

15D
15° WITH NO LENS



WATTS: 16	LPW: 70.4
LUMENS: 1127	CCT: 2400K
INTENSITY	
DEGREE	CANDELA
0	13193
5	9118
15	1297
25	82
35	10
45	1

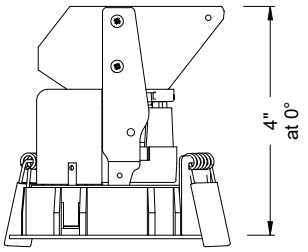
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

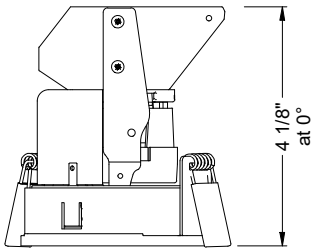
MOUNTING OPTIONS

FIXTURE HEIGHT

LED LIGHT ENGINE: 10LM - 15LM

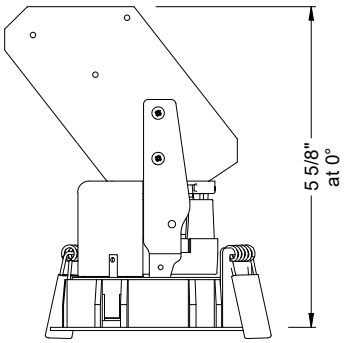


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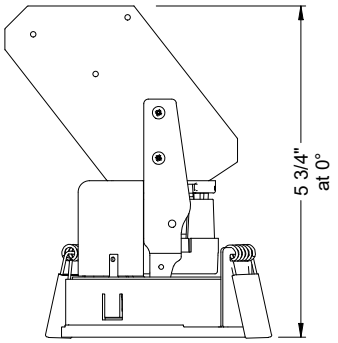


TRIMLESS & MILLWORK

LED LIGHT ENGINE: 20LM - 25LM



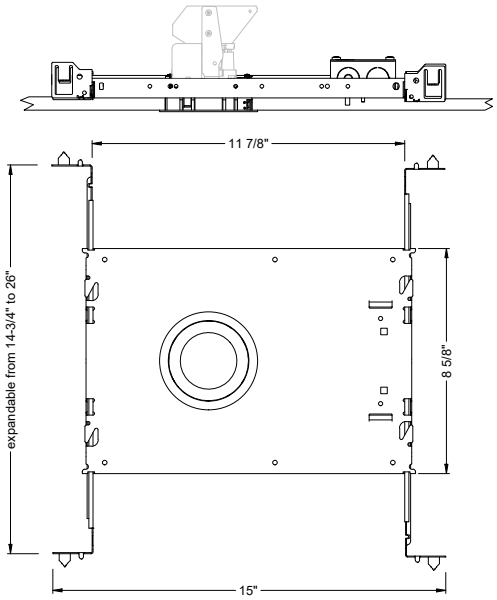
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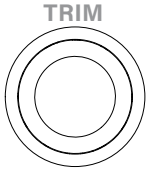
TRIMLESS & MILLWORK

NC - NEW CONSTRUCTION

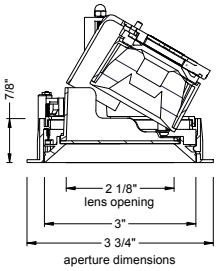
TRIM



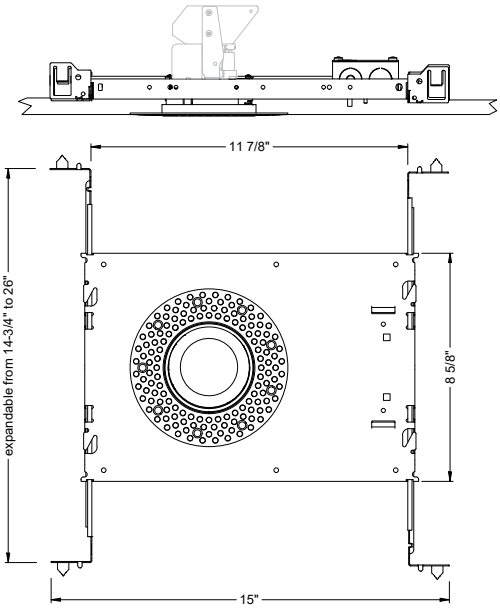
TRIM



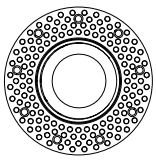
ceiling cutout
3-3/8" diameter
ceiling thickness
0.2" to 1.25"



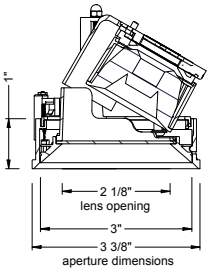
TRIMLESS



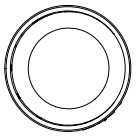
TRIMLESS



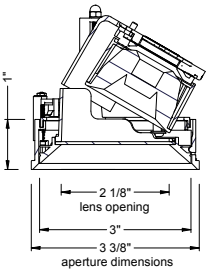
ceiling cutout
3-1/2" diameter
ceiling thickness
0.2"to1.25"



TRIMLESS/MILLWORK



ceiling cutout
3-3/8" diameter
ceiling thickness
0.3" to 1.25"

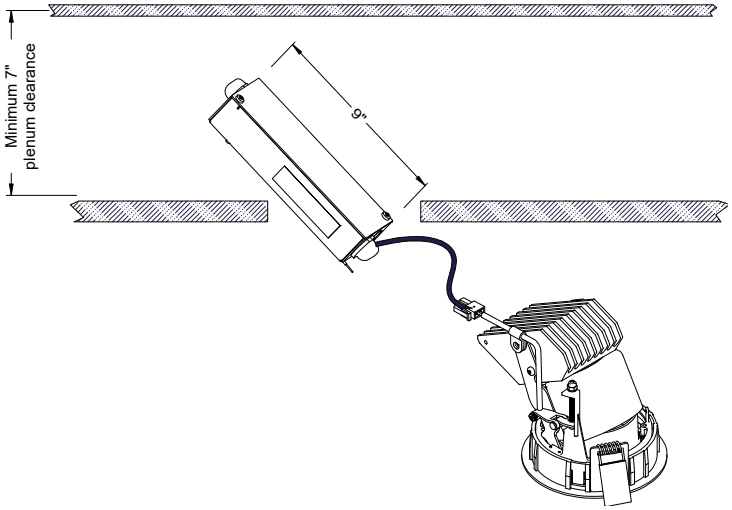


alphabet

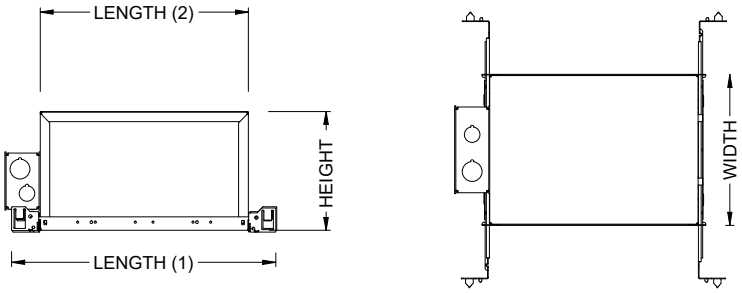
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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"

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
	STANDARD CEILING THICKNESS
TRIM	1/8" to 1-1/4"
TRIMLESS	1/8" to 1-1/4"
MILLWORK (TRIMLESS)	3/8" to 1-1/4"

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (15°)			
LUMEN OUTPUT	BOX-A		
	CP	IC	ICAT
10LM	✔	✔	✔
12LM	✔	✔	✔

BOX TYPE / LUMEN OUTPUT - NARROW BEAM (20°-55°)			
LUMEN OUTPUT	BOX-A		
	CP	IC	ICAT
10LM	✔	✔	✔
15LM	✔	✔	✔
20LM			
25LM			

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

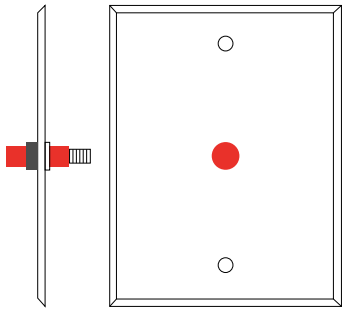
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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

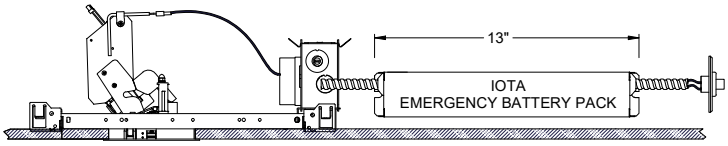
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



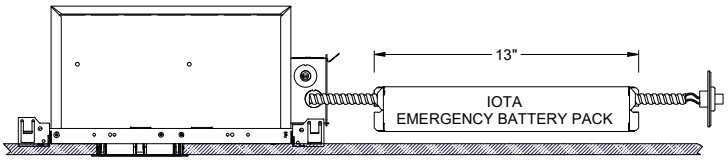
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 25LM)	560LM	800LM	931LM
Notes: Based on 24K, 90CRI			

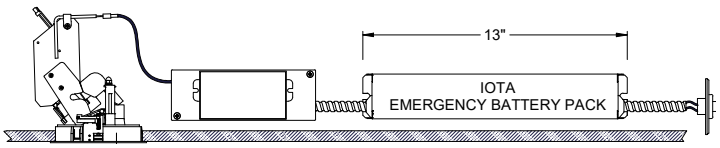
NC - NEW CONSTRUCTION
WITH EM BATTERY (REMOTE TEST SWITCH)



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

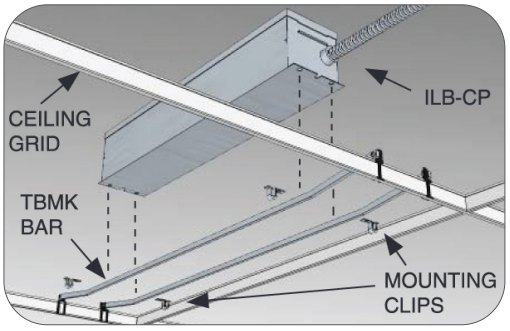


RET - RETROFIT
WITH EM BATTERY (REMOTE TEST SWITCH)



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.

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			

AWNR 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

OEM ADVANTAGE LUTRON

AWNR

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.

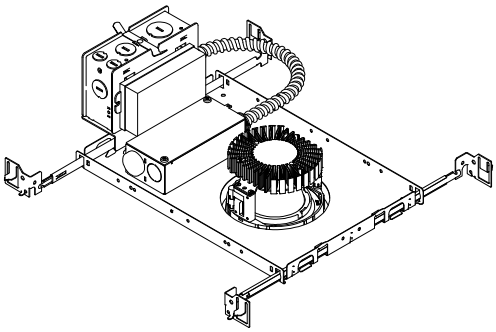
Note: Default behavior prior to programming

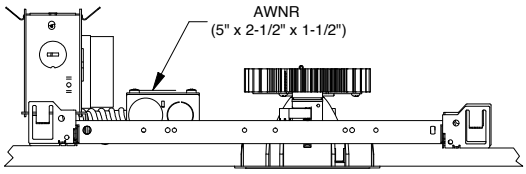
- Light level 100%
- Athena wireless node performs an unprogrammed startup sequence on every power up until the device is added to an Athena system.
- Each Athena wireless node should be installed within 25 ft (7.62 m) of two or more Athena wireless nodes or other Clear Connect – Type X devices.
- For 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)

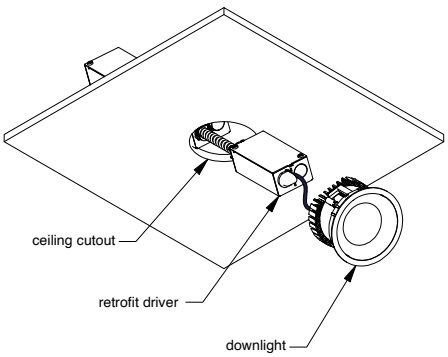
IC/ICAT/CP not available in AWNR.

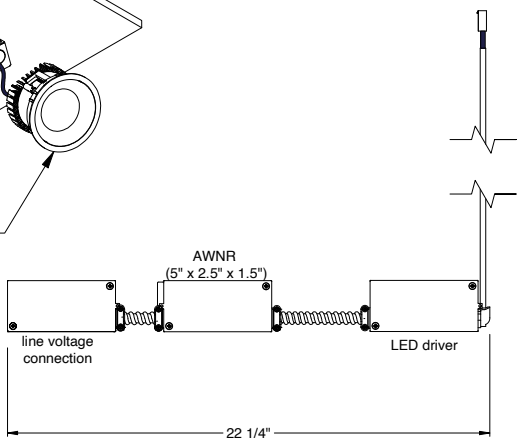
NC - NEW CONSTRUCTION





RET - RETRO FIT





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