alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU6

6" Square Adjustable Standard White

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





Trim

20° -65° BEAM (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	**NOMINAL DELIVERED LUMENS**	**SYSTEM WATTAGE**
10LM	990LM @30K/80CRI	9W
15LM	1490LM @30K/80CRI	12W
20LM	2095LM @30K/80CRI	17W
25LM	2540LM @30K/80CRI	21W
30LM	3090LM @30K/80CRI	26W
35LM	3590LM @30K/80CRI	31W
40LM	4180LM @30K/80CRI	37W
10LM	840LM @30K/90CRI	9W
15LM	1270LM @30K/90CRI	12W
20LM	1780LM @30K/90CRI	17W
25LM	2160LM @30K/90CRI	21W
30LM	2630LM @30K/90CRI	26W
35LM	3050LM @30K/90CRI	31W
40LM	3550LM @30K/90CRI	37W
Notes	Delivered lumens based on 25D optic with no lens, (see page 2)	

FEATURES

- True 30° Tilt with <6% beam disruption (clipping)
- Zero ceiling line obstruction at Full Tilt
- Concentric Tilt Tracking ensures minimal light loss
- 20° - 65° optical beam control
- UGR <10
- Glare control, specialty optics, trim options, and custom finishes available
- Microban® antimicrobial finish available on all exposed painted surfaces

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 Eco System dimming to 0.1% and 1.%
- Lutron athena wireless node
- Leading & trailing edge (Triac/ELV) dimming to 1%
- Casambi dimming to 1.0%
- 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

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

LISTING

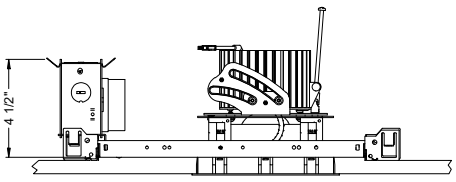
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

ELECTRICAL

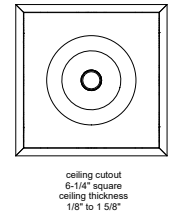
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote and Integral (ITS) emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)
- Low Voltage Luminaire option, see page 7.

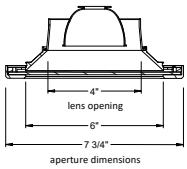
FIXTURE HEIGHT

10LM - 40LM



TRIMMED





alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU6**	NU6
TYPE	**QA**	square adjustable
LED	**SW**	standard white
DELIVERED LUMENS	**10LM**	990 lm
	15LM	1490 lm
	20LM	2095 lm
	25LM	2540 lm
	30LM	3090 lm
	35LM	3590 lm
	40LM	4180 lm
	Standard Configuration: 3000K 80CRI 25D **NL** **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	80+	90+	80+	90+	80+	90+	80+	90+
CCT MULTIPLIER FOR LUMEN OUTPUT	0.96	0.81	1	0.85	1.03	0.88	1.06	0.91

CRI	**80**	80 CRI	
	90	90 CRI	
OPTIC & LM MULTIPLIER SEE PAGE 4	**20D**	20 degrees	(0.99)
	25D	25 degrees	(1.00)
	35D	35 degrees	(0.99)
	50D	50 degrees	(0.99)
	65D	65 degrees	(0.99)
BEZEL LENS SEE PAGE 3	**NL**[1]	no lens	(1.00)
	CL	clear lens	(0.92)
	DL	diffused lens	(0.91)
	E[2]	elliptical beam spread	(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	
	CC[3]	custom color, consult factory for details	
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.		
BEZEL COLOR SEE PAGE 3	**BK**	black	(0.98)
	WH	white	(1.00)
	MC	matte chrome	(0.99)
	BZ	bronze	(0.98)
	CC[3]	custom color, consult factory for details	
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.		

ORDERING CODE

MOUNTING OPTIONS SEE PAGE 5, 6	**NC**	new construction plate
	IC[4]	insulation contact housing
	ICAT[4]	insulation contact/airtight housing
	CP[4]	chicago plenum housing
	RET	retrofit, no ceiling plate
VOLTAGE	**120**	120V
	UNV	120V-277V
	LVL[5]	low voltage luminaire
DIMMING	**DIM10**	eldoLED flicker free 0-10V dim to 1%
	DIM10Z	eldoLED flicker free 0-10V dim 0.1%
	DALI	eldoLED flicker free DALI-2 dim to 1%
	DALIZ	eldoLED flicker free DALI-2 dim to 0.1%
	DMX-RJ45	DMX control dimming to 0.1% with RJ45 connection
	DMX-WL	DMX-512/RDM dim to 0% with lead wire input
	DMX-XLR	DMX-512/RDM dim to 0% with XLR input
	LUT	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
	LUTP[6]	Lutron Hi-Lume Eco (fade) dim to 0.1%
	ELV1	leading edge & trailing edge (Triac/ELV) dim to 1%
	NLT	nLight control interface: Cat-5/RJ45, dim to off
	CAS	Casambi control with flicker free 1% dimming
	AWNR[7]	lutron athena wireless node
	L3DA	Lutron Hi-lume 1% 3-wire/Ecosystem
	ND	No Driver Included. Customer to supply PoE system components or order remote driver separately. Refer to PoE/Remote Driver reference sheet for additional details.
ELECTRICAL OPTIONS	**EM7**[8]	remote emergency battery, 90 min at 7W
	EM12[8]	remote emergency battery, 90 min at 12W
	EM10CA20[8]	remote emergency battery, 90 min at 10W

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:

NU6 - QA - SW -40LM - 30K - 90 - 50D -NL - WH - WH - NC - UNV - DIM10 - EM7

NOTES

1. NL option does not meet requirement for AT/DF/WET/NSF listings
2. Actual beam distributions for optic (Actual beam distributions for optic (20D= 37°.2 x 63°, 25D= 40° x 67°, 35D= 48.6° x 74.6°, 50D=54.2° x 79.7°, 65D= 63° x 88.8°).
3. Custom set up fee plus minimum quantity required per color.
4. IC/ICAT/CP not available in 40LM.
5. Must select ND dimming code, for remote driver or POE specifications see page 7.
6. LUTP not available in 25LM/30LM/35LM/40LM.
7. AWNR reference page 9 for product specifications on Athena wireless node.
8. For integrated test switch add "ITS" after emergency backup code, i.e. EM12ITS. Not available in LVL/ND voltage and dimming codes.

* 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			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS



WH MC BK BZ

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
20D	18	9.7
25D	22.8	9.2
35D	36.2	10.5
50D	49.2	14
65D	64.6	14.8

NL

No Lens



OPTIC	BEAM ANGLE	UGR
20D	18	9.9
25D	22.8	9.5
35D	36.2	10.8
50D	49.2	14.2
65D	64.5	15.1

HET

High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D	22.5	10.2
25D	27	10.4
35D	38.8	12.1
50D	49.8	12.9
65D	60.4	15.8

DL

Diffused Lens



OPTIC	BEAM ANGLE	UGR
20D	39.4	15.9
25D	42.4	16.2
35D	50.6	17.2
50D	56.7	17.7
65D	66.7	19.7

SBL

Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
20D	19.3	9.4
25D	24.3	9.5
35D	37.2	11.1
50D	51.2	11.9
65D	62.2	15.1

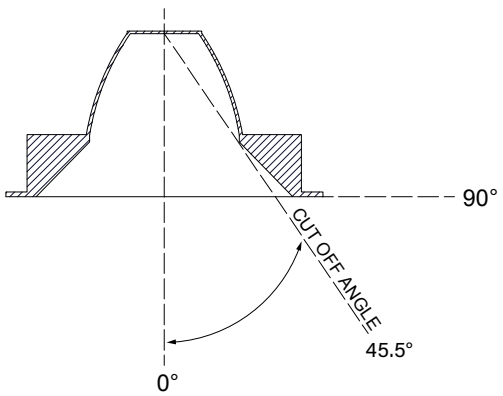
GLARE CONTROL

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 45.5 degrees;



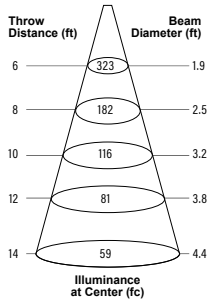
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

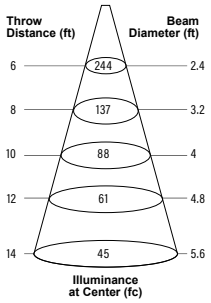
20LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance^2		

20D 18° NO LENS



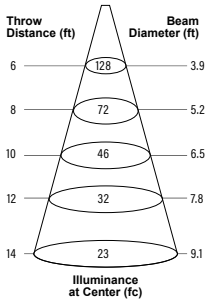
WATTS: 17.2	LPW: 121.4
LUMENS: 2088	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	11622
5	10517
15	2170
25	862
35	401
45	3

25D 23° NO LENS



WATTS: 17.2	LPW: 122.1
LUMENS: 2099	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	8779
5	7589
15	2759
25	940
35	372
45	2

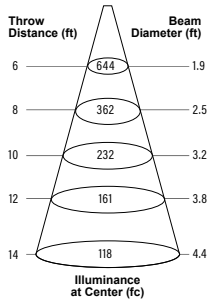
35D 36° NO LENS



WATTS: 17.2	LPW: 120.6
LUMENS: 2074	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	4594
5	4283
15	2845
25	1317
35	435
45	10

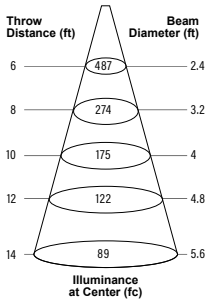
40LM CCT MULTIPLIERS	
	90CRI
2700K	0.96
3000K	1
3500K	1.01
4000K	1.02
FC Formula = CBCP / Distance^2	

20D 18° NO LENS



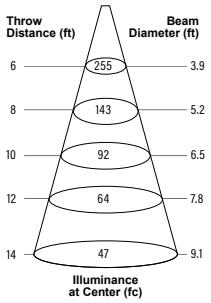
WATTS: 37.3	LPW: 111.7
LUMENS: 4165	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	23188
5	20984
15	4329
25	1719
35	799
45	5

25D 23° NO LENS



WATTS: 37.3	LPW: 112.3
LUMENS: 4189	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	17516
5	15142
15	5504
25	1876
35	742
45	4

35D 36° NO LENS



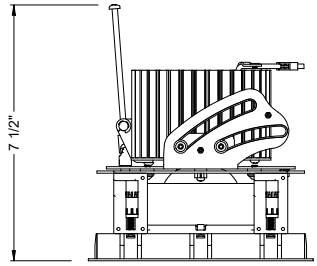
WATTS: 37.3	LPW: 110.9
LUMENS: 4138	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	9166
5	8545
15	5676
25	2627
35	868
45	19

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

FIXTURE HEIGHT

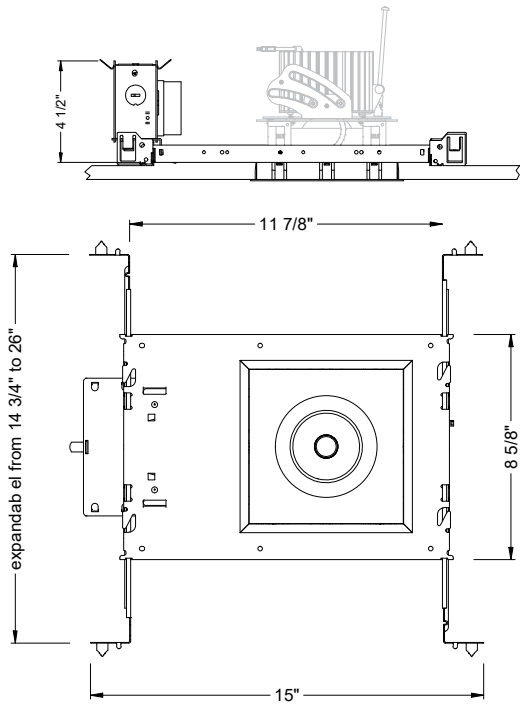
10LM - 40LM



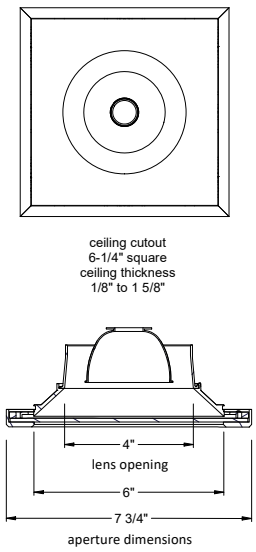
TRIMMED

NC - NEW CONSTRUCTION

TRIM



TRIM

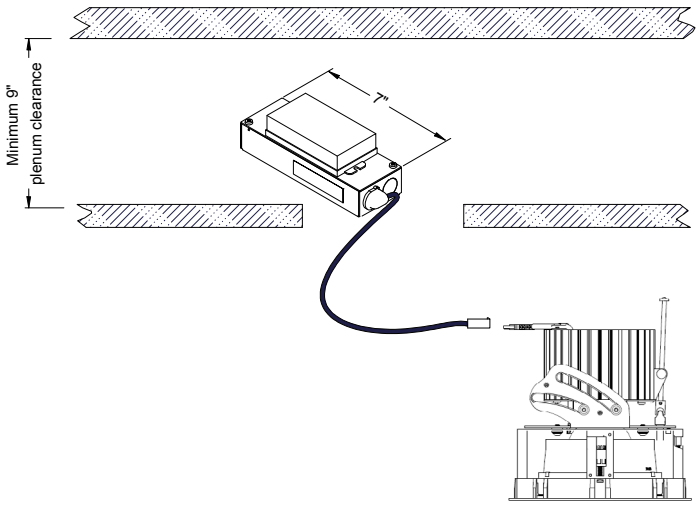


In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

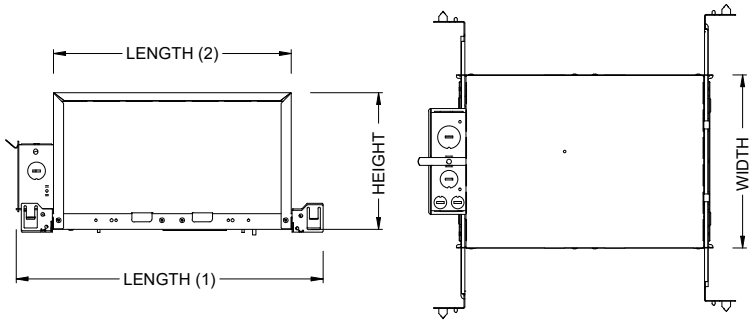
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

RET - RETRO
TRIM/TRIMLESS



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



BOX SIZE	L1	L2	W
A	15 - 7/16"	11 - 3/4"	8 - 1/2"
B	18 - 1/4"	14 - 7/8"	12 - 1/8"

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	CEILING CUTOUT
TRIM	1/8" to 1-5/8"	6-1/4" square

BOX TYPE / LUMEN OUTPUT - STANDARD BEAM (20°-65°)			
LUMEN OUTPUT	BOX-A		
	CP	IC	ICAT
10LM	✔	✔	✔
15LM	✔	✔	✔
20LM	✔	✔	✔
25LM	✔	✔	✔
30LM			

BOX TYPE / LUMEN OUTPUT - STANDARD BEAM (20°-65°)			
LUMEN OUTPUT	BOX-B		
	CP	IC	ICAT
30LM	✔	✔	✔
35LM	✔	✔	✔
40LM			

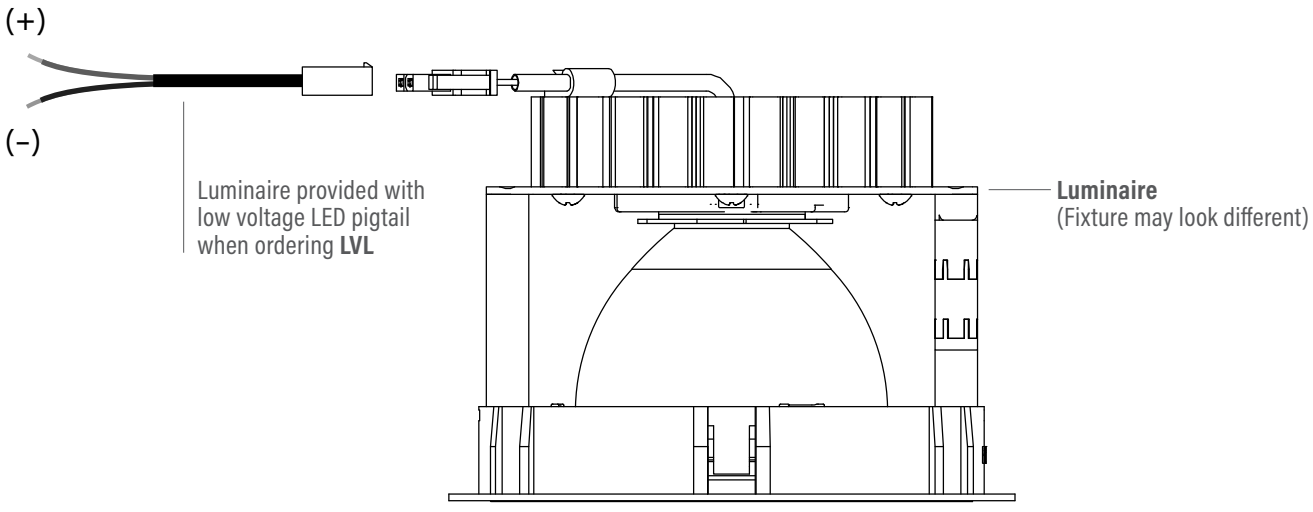
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

LOW VOLTAGE OPTIONS

20° -65° BEAM (Note: Specifications are subject to change without notice)			
14mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	**NOMINAL DELIVERED LUMENS**	**DRIVE CURRENT**	**LED WATTAGE**
10LM	990LM @30K/80CRI	200 mA	7.5W
15LM	1490LM @30K/80CRI	300 mA	11W
20LM	2095LM @30K/80CRI	425 mA	15.5W
25LM	2540LM @30K/80CRI	525 mA	19W
30LM	3090LM @30K/80CRI	650 mA	23.5W
35LM	3590LM @30K/80CRI	750 mA	27W
40LM	4180LM @30K/80CRI	900 mA	32.5W
10LM	840LM @30K/90CRI	200 mA	7.5W
15LM	1270LM @30K/90CRI	300 mA	11W
20LM	1780LM @30K/90CRI	425 mA	15.5W
25LM	2160LM @30K/90CRI	525 mA	19W
30LM	2630LM @30K/90CRI	650 mA	23.5W
35LM	3050LM @30K/90CRI	750 mA	27W
40LM	3550LM @30K/90CRI	900 mA	32.5W
Notes	Delivered lumens based on 25D optic with no lens, (see page 2)		

NOMINAL LED VOLTAGE: 36VDC

Customer to order CC Remote Driver separately or POE Node by others.



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PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

BATTERY OPTIONS

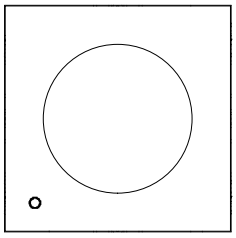
EMERGENCY BATTERY
IOTA's ILB Battery Backups are UL Listed LED emergency drivers that allow the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the ILB switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains 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.

INTEGRATED TEST SWITCH
The integrated test switch mounted onto fixture bezel.

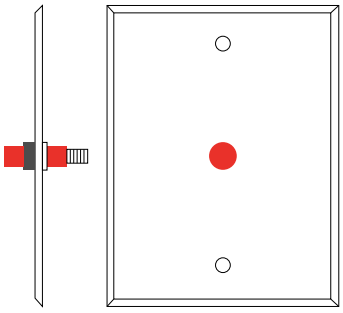
REMOTE TEST SWITCH
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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.



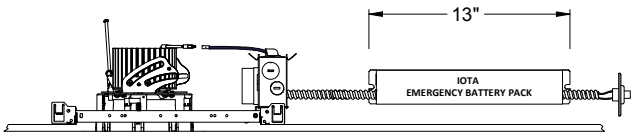
Integrated Test Switch



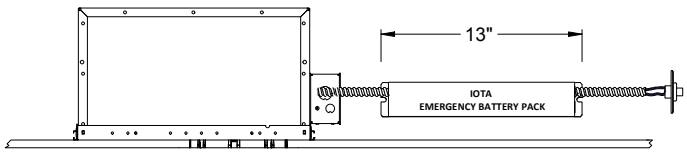
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS	860LM	1230LM	1470LM
Notes: Based on 30K, 90CRI			

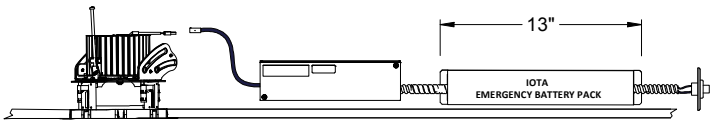
NC - NEW CONSTRUCTION
WITH EM BATTERY (REMOTE TEST SWITCH)



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

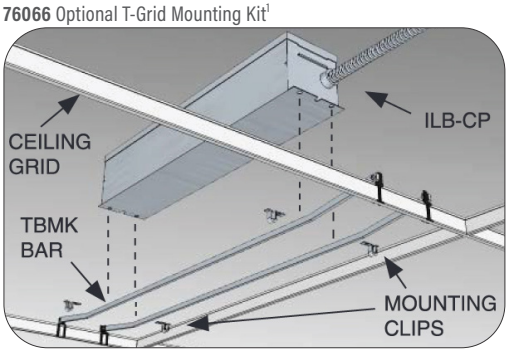


RET - RETROFIT
WITH EM BATTERY (REMOTE TEST SWITCH)



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.

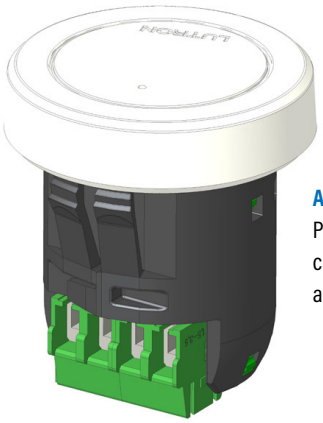
In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

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.

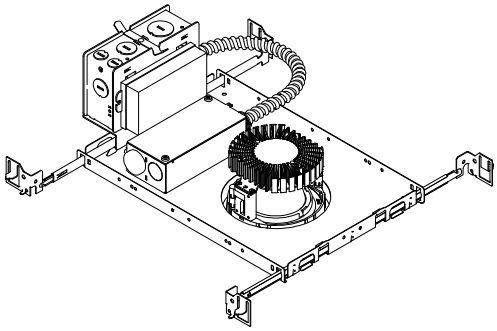
Note: Default behavior prior to programming

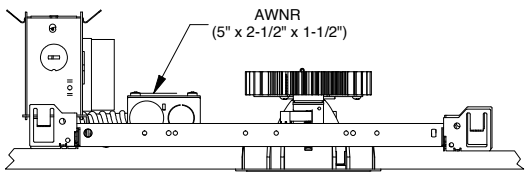
- Light level 100%
- Athena wireless node performs an unprogrammed startup sequence on every power up until the device is added to an Athena system.
- Each Athena wireless node should be installed within 25 ft (7.62 m) of two or more Athena wireless nodes or other Clear Connect – Type X devices.
- For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

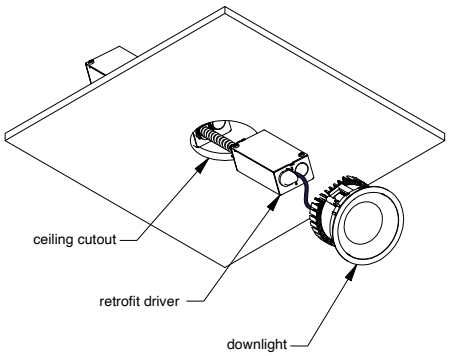
IC/ICAT/CP not available in AWNR.

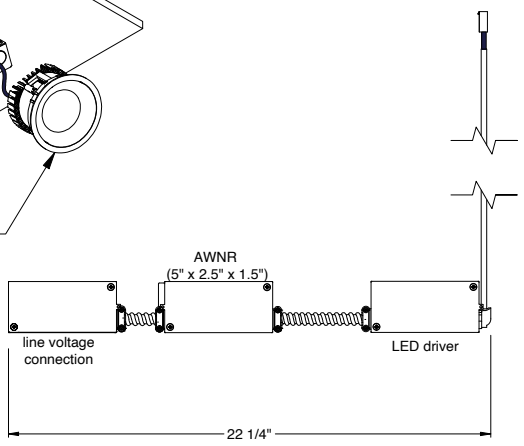
NC - NEW CONSTRUCTION





RET - RETRO FIT





100208

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