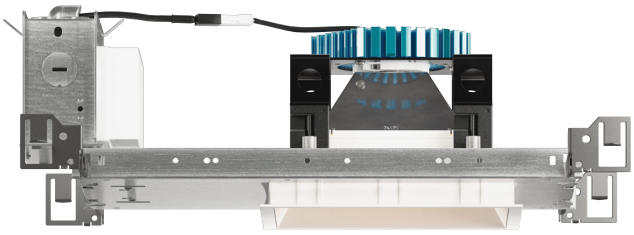
alphabet

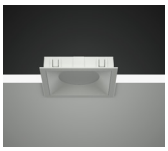
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU6

6" Square Downlight Standard White

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





Trim

75° - 80° 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	1460LM @30K/80CRI	12W
20LM	1930LM @30K/80CRI	16W
25LM	2400LM @30K/80CRI	20W
30LM	2850LM @30K/80CRI	24W
35LM	3400LM @30K/80CRI	29W
40LM	3930LM @30K/80CRI	35W
45LM	4350LM @30K/80CRI	40W
10LM	840LM @30K/90CRI	9W
15LM	1240LM @30K/90CRI	12W
20LM	1640LM @30K/90CRI	16W
25LM	2040LM @30K/90CRI	20W
30LM	2420LM @30K/90CRI	24W
35LM	2890LM @30K/90CRI	29W
40LM	3340LM @30K/90CRI	35W
Notes	Delivered lumens based on WH80 optic, (see page 2)	

FEATURES

- 3/4" bezel regress with 1/16" micro flange
- 75° - 100° optical beam control
- UGR < 17
- 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

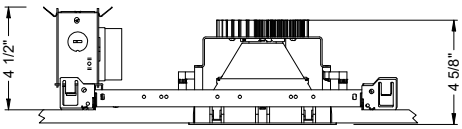
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- **Declare.** - LBC Red List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

ELECTRICAL

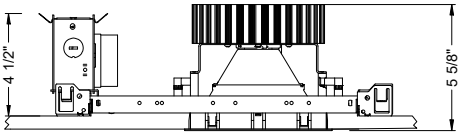
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote and Integral (ITS) emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)

FIXTURE HEIGHT

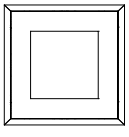
10LM - 30LM LOW LUMEN



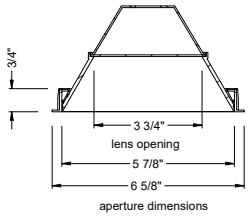
35LM - 45LM HIGH LUMEN



TRIMMED



ceiling cutout
6-1/4" square
ceiling thickness
1/8" to 1 5/8"



aperture dimensions

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	NU6	NU6
TYPE	QD	square downlight
LED	SW	standard white
DELIVERED LUMENS	10LM	990 lm
	15LM	1460 lm
	20LM	1930 lm
	25LM	2400 lm
	30LM	2850 lm
	35LM	3400 lm
	40LM	3930 lm
	45LM	4350 lm
	Standard Configuration: 3000K 80CRI WH80 **Calculated Delivered Lumens** = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]	
CCT	27K	2700K
	30K	3000K
	40K	4000K
	35K	3500K

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	HE75	75° high efficiency diffused lens	(0.94)
	HE85	85° high efficiency diffused lens	(0.98)
	WH80	80° brilliant white with clear lens	(1.00)
	D75	75° diffused with clear lens	(0.98)
	WDL100	100° brilliant white with wide diffused lens	(0.94)
TRIM COLOR	BK	black	
	WH	white	
	MC	matte chrome	
	BZ	bronze	
	CC[1]	custom color, consult factory for details	
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.		
BEZEL COLOR	BK	black	(0.98)
	WH	white	(1.00)
	MC	matte chrome	(0.99)
	BZ	bronze	(0.98)
	CC[1]	custom color, consult factory for details	
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.		

ORDERING CODE

MOUNTING OPTIONS	NC	new construction plate
	IC[2]	insulation contact housing
	ICAT[2]	insulation contact/airtight housing
	CP[2]	chicago plenum housing
	RET	retrofit, no ceiling plate
VOLTAGE	120	120V
	UNV	120V-277V
	LVL[3]	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[4]	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
	LUTP[5]	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
	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.
	AWNR	lutron athena wireless node
	L3DA	Lutron Hi-lume 1% 3-wire/Ecosystem
ELECTRICAL OPTIONS	EM7[6]	remote emergency battery, 90 min at 7W
	EM12[6]	remote emergency battery, 90 min at 12W
	EM10CA20[6]	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 - QD - SW - 30LM - 35K - 90 - WH80 - WH - WH - NC - 120 - DIM10 - EM7

NOTES

1. Custom set up fee plus minimum quantity required per color.
2. IC/ICAT/CP not available in 45LM.
3. Must select ND dimming code, for remote driver or POE specifications see page 9.
4. LUT not available in 45LM.
5. LUTP not available in 25LM/30LM/35LM/40LM/45LM
6. For integrated test switch add "ITS" after emergency backup code, i.e. EM12ITS. Not available in LVL/ND voltage and dimming codes.

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

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.

CL

Clear Lens



OPTIC	BEAM ANGLE	UGR
D75	74	17.8
WH80	81	20.4

DL

Diffused Lens



OPTIC	BEAM ANGLE	UGR
HE75	75	19.8
HE85	85	21.4

WDL

Wide Diffused Lens



OPTIC	BEAM ANGLE	UGR
WDL100	101	23.2

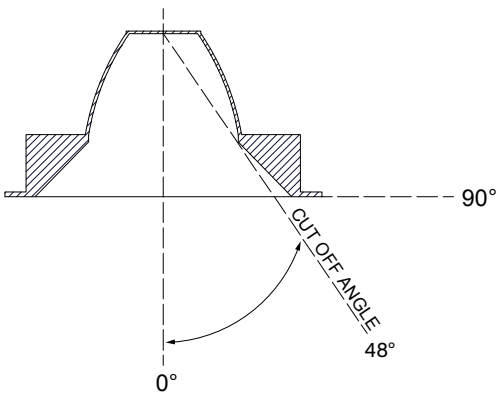
GLARE CONTROL

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.

- Cutoff angle of NL and CL is 48° degrees;



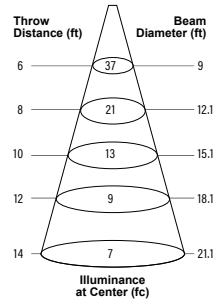
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

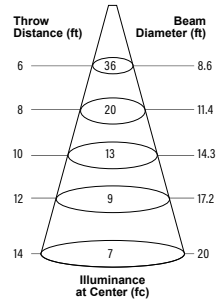
20LM		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance^2		

D75
74° DIFFUSED WITH CLEAR LENS



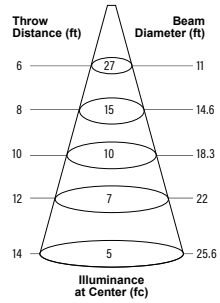
WATTS: 15.8	LPW: 106.8
LUMENS: 1688	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1343
5	1329
15	1224
25	1023
35	761
45	180

HE75
75° HIGH EFFICIENCY DIFFUSED LENS



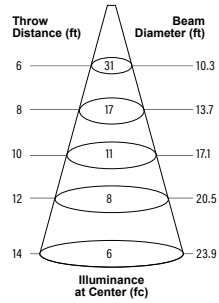
WATTS: 15.8	LPW: 111.4
LUMENS: 1761	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1290
5	1272
15	1143
25	930
35	663
45	326

HE85
85° HIGH EFFICIENCY DIFFUSED LENS



WATTS: 15.8	LPW: 112.5
LUMENS: 1778	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	970
5	964
15	919
25	828
35	675
45	406

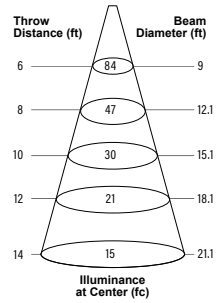
WH80
81° BRILLIANT WHITE WITH CLEAR LENS



WATTS: 15.8	LPW: 122.2
LUMENS: 1931	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1101
5	1098
15	1068
25	996
35	871
45	331

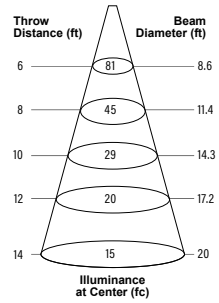
45LM		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance^2		

D75
74° DIFFUSED WITH CLEAR LENS



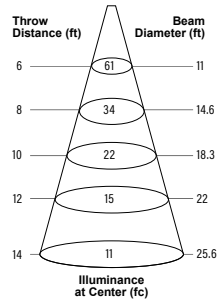
WATTS: 40	LPW: 95.1
LUMENS: 3802	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	3024
5	2993
15	2756
25	2305
35	1714
45	407

HE75
75° HIGH EFFICIENCY DIFFUSED LENS



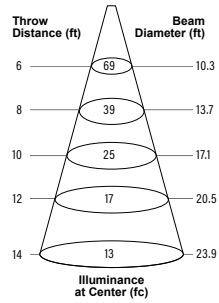
WATTS: 40	LPW: 99.2
LUMENS: 3966	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2905
5	2865
15	2574
25	2095
35	1492
45	734

HE85
85° HIGH EFFICIENCY DIFFUSED LENS



WATTS: 40	LPW: 100.1
LUMENS: 4005	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2184
5	2171
15	2069
25	1865
35	1520
45	914

WH80
81° BRILLIANT WHITE WITH CLEAR LENS



WATTS: 40	LPW: 108.8
LUMENS: 4350	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2481
5	2473
15	2405
25	2243
35	1963
45	746

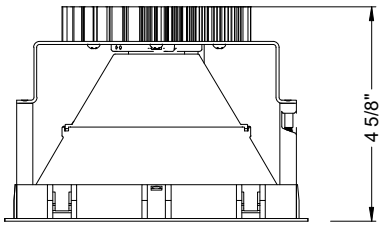
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PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

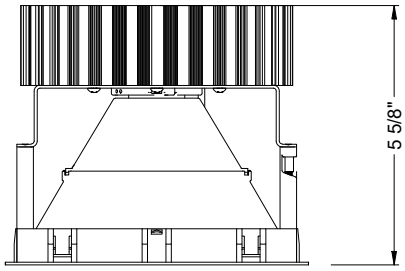
MOUNTING OPTIONS

FIXTURE HEIGHT

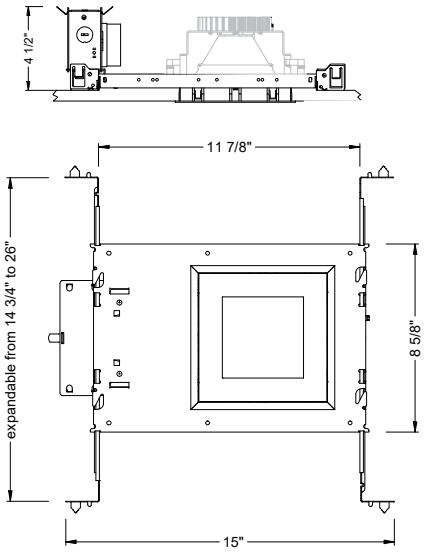
10LM - 30LM LOW LUMEN



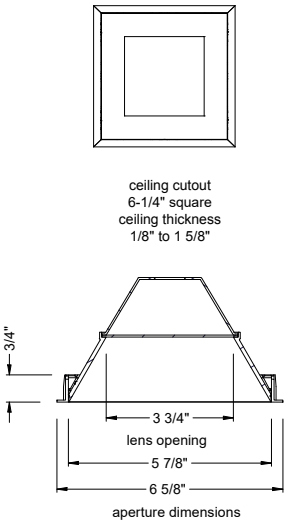
35LM - 45LM HIGH LUMEN

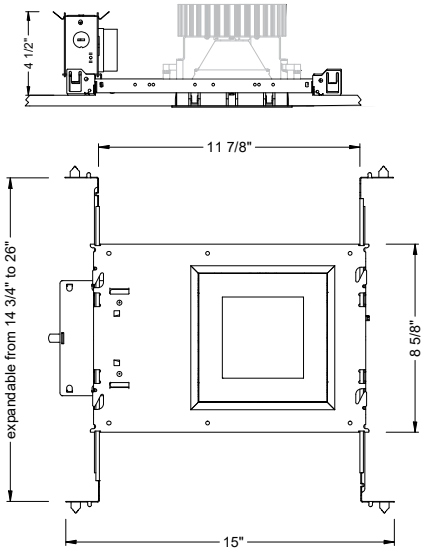


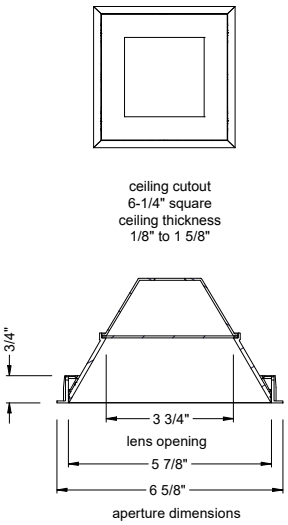
NC - NEW CONSTRUCTION



TRIM



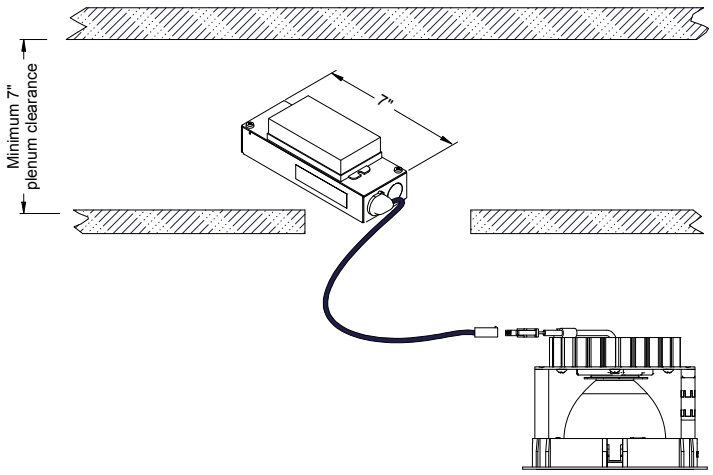




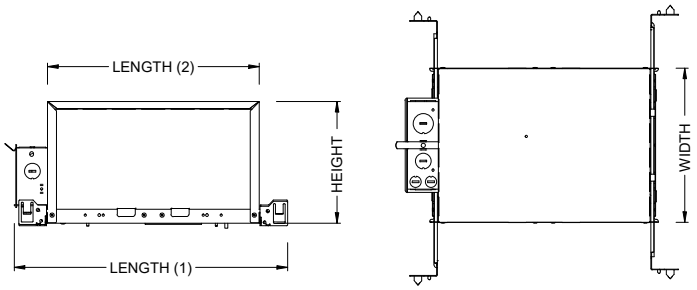
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

RET - RETRO
TRIM/TRIMLESS



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



BOX SIZE	L1	L2	W	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"

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 (75°-80°)						
LUMEN OUTPUT	BOX-A			BOX-B		
	CP	IC	ICAT	CP	IC	ICAT
10LM	✔	✔	✔			
15LM	✔	✔	✔			
20LM	✔	✔	✔			
25LM	✔	✔	✔			
30LM				✔	✔	✔
35LM				✔	✔	✔
40LM				✔	✔	✔
45LM						

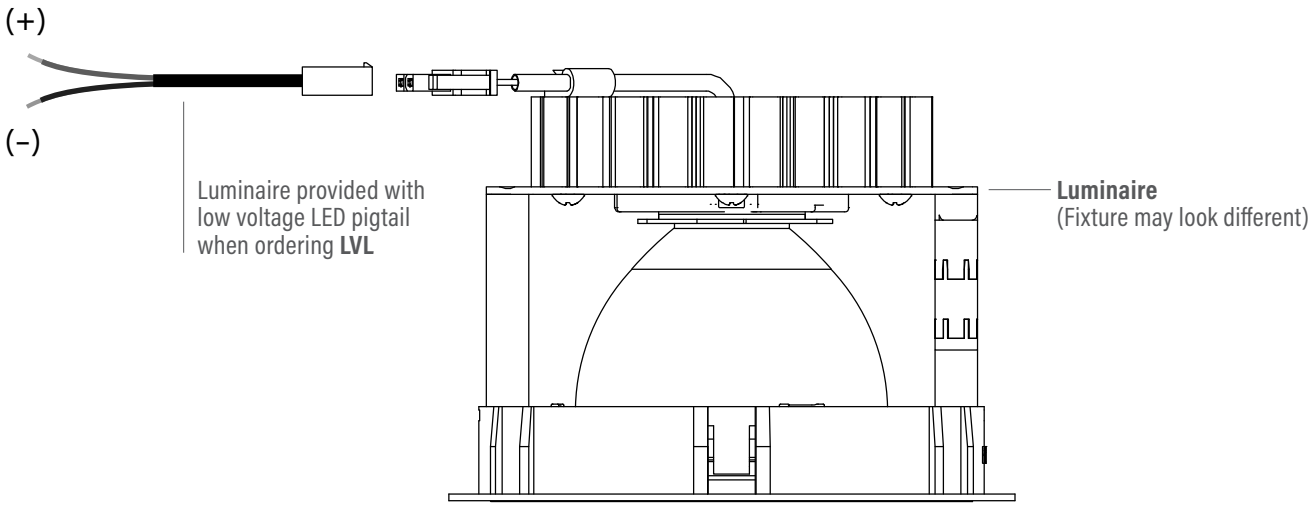
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

LOW VOLTAGE OPTIONS

75° - 85° 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	200mA	7.5W
15LM	1170LM @30K/80CRI	300mA	11W
20LM	1630LM @30K/80CRI	400mA	15W
25LM	2080LM @30K/80CRI	500mA	18W
30LM	2620LM @30K/80CRI	600mA	22W
35LM	3100LM @30K/80CRI	725mA	26W
40LM	3730LM @30K/80CRI	850mA	31W
45LM	4140LM @30K/80CRI	950mA	34.5W
10LM	840LM @30K/90CRI	200mA	7.5W
15LM	1000LM @30K/90CRI	300mA	11W
20LM	1390LM @30K/90CRI	400mA	15W
25LM	1770LM @30K/90CRI	500mA	18W
30LM	2230LM @30K/90CRI	600mA	22W
35LM	2640LM @30K/90CRI	725mA	26W
40LM	3170LM @30K/90CRI	850mA	31W
45LM	3520LM @30K/90CRI	950mA	34.5W

NOMINAL LED VOLTAGE: 36VDC

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



PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

BATTERY OPTIONS

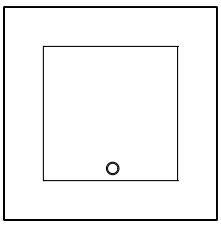
EMERGENCY BATTERY
IOTA's ILB Battery Backups are UL Listed LED emergency drivers that allow the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the ILB switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains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

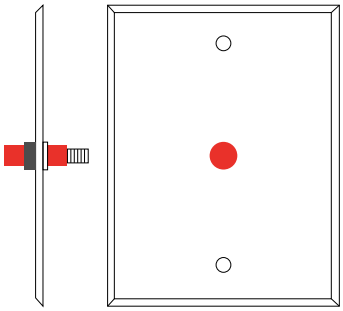
REMOTE TEST SWITCH
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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.



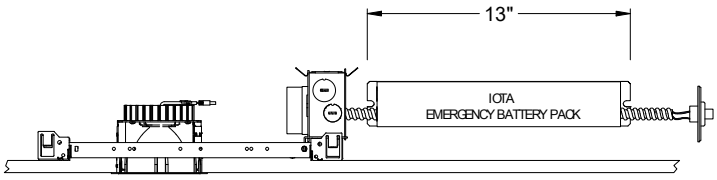
Integrated Test Switch



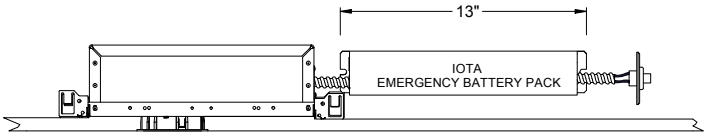
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 45LM)	860LM	1230LM	1470LM
Notes: Based on 30K, 80CRI			

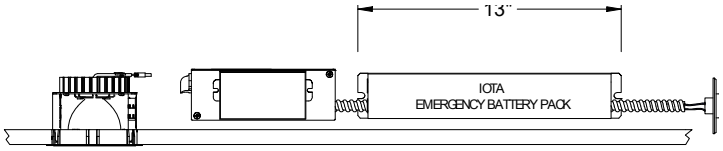
NC - NEW CONSTRUCTION
WITH EM BATTERY (REMOTE TEST SWITCH)



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

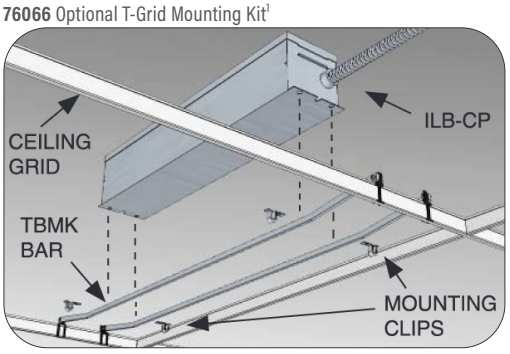


RET - RETROFIT
WITH EM BATTERY (REMOTE TEST SWITCH)



Accessory

76066 Optional T-Grid Mounting Kit[1]



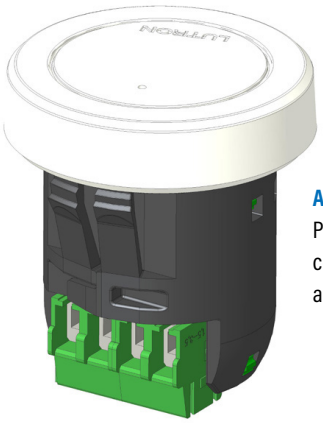
1. Can be used with any of the Emergency Battery Backups. Must be ordered as a separate line item.

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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.

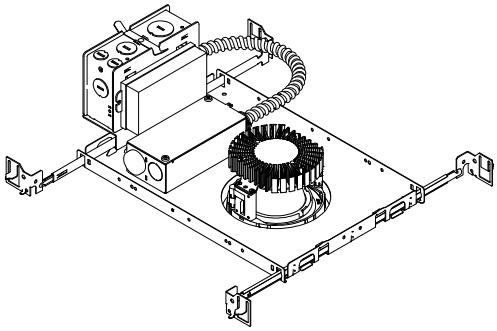
Note: Default behavior prior to programming

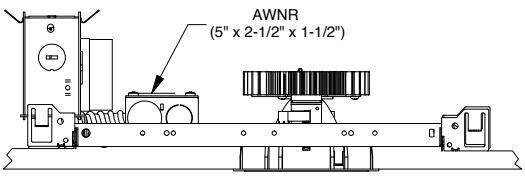
- Light level 100%
- Athena wireless node performs an unprogrammed startup sequence on every power up until the device is added to an Athena system.
- Each Athena wireless node should be installed within 25 ft (7.62 m) of two or more Athena wireless nodes or other Clear Connect – Type X devices.
- For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

