

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

NU3

3" Square Downlight Standard White

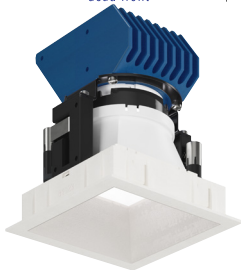


AT
airtight

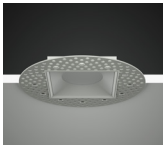
DF
dead-front

PR
plenum rated

wet rated



Trim



Trimless



Trimless Millwork

30° - 55° BEAM

(Note: Specifications are subject to change without notice)

14mm COB PERFORMANCE DATA

LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	810LM @30K/80CRI	9W
15LM	1260LM @30K/80CRI	12W
20LM	1800LM @30K/80CRI	17W
25LM	2230LM @30K/80CRI	21W
30LM	2740LM @30K/80CRI	26W
35LM	3190LM @30K/80CRI	31W
40LM	3670LM @30K/80CRI	37W
10LM	690LM @30K/90CRI	9W
15LM	1070LM @30K/90CRI	12W
20LM	1530LM @30K/90CRI	17W
25LM	1890LM @30K/90CRI	21W
30LM	2330LM @30K/90CRI	26W
35LM	2710LM @30K/90CRI	31W
40LM	3120LM @30K/90CRI	37W
Notes	Delivered lumens based on 55D optic with no lens, (see page 2)	

20° BEAM

(Note: Specifications are subject to change without notice)

10mm COB PERFORMANCE DATA

LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	920LM @30K/80CRI	9W
15LM	1530LM @30K/80CRI	15W
20LM	2090LM @30K/80CRI	22W
10LM	780LM @30K/90CRI	9W
15LM	1300LM @30K/90CRI	15W
20LM	1770LM @30K/90CRI	22W
Notes	Delivered lumens based on 20D optic no lens, (see page 2)	

14° BEAM

(Note: Specifications are subject to change without notice)

6mm COB PERFORMANCE DATA

LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	1000LM @30K/80CRI	12W
15LM	1470LM @30K/80CRI	18W
10LM	850LM @30K/90CRI	12W
15LM	1250LM @30K/90CRI	18W
Notes	Delivered lumens based on 14D optic no lens, (see page 2)	

FEATURES

- 3/4" bezel regress with 1/16" micro flange
- 14° - 55° optical beam control
- UGR < 19
- Up to 110 LPW
- 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%
- Lutron Hi-lume Ecosystem dimming to 0.1%
- 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 1/8" to 1-3/8"

LED

- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L₇₀ > 66,000 hrs
- 80 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L₇₀ > 66,000 hrs

LISTING

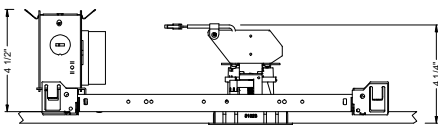
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- **Declare.** - LBC Red List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

ELECTRICAL

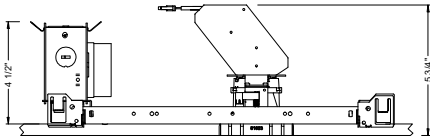
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)
- Low Voltage Luminaire option, see page 10.

FIXTURE HEIGHT

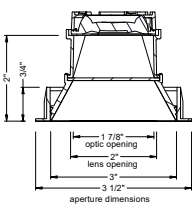
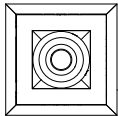
LED LIGHT ENGINE: 10LM - 30LM



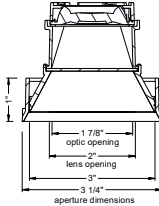
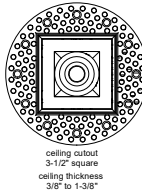
LED LIGHT ENGINE: 35LM - 40LM



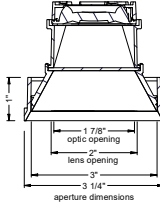
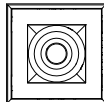
TRIMMED



TRIMLESS



MILLWORK



PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

14°- 55° BEAM ORDERING CODE		
SERIES	NU3	NU3
TYPE	SD	square downlight
	SDT	square downlight trimless
	SDTMW	square downlight trimless millwork
LED	SW	standard white
DELIVERED LUMENS	10LM	810 lm
	15LM	1260 lm
	20LM	1800 lm
	25LM	2230 lm
	30LM	2740 lm
	35LM ¹	3190 lm
	40LM ¹	3670 lm
Standard Configuration: 3000K 80CRI 55D, NL Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Optic Multiplier]		
CCT	27K	2700K
	30K	3000K
	35K	3500K
	40K	4000K
CRI	80	80 CRI
	90	90 CRI
OPTIC & LM MULTIPLIER SEE PAGE 3, 4	14D ²	14 degrees (1.00)
	20D ³	20 degrees (1.00)
	25D	25 degrees (1.00)
	30D	30 degrees (1.00)
	35D	35 degrees (0.94)
	55D	55 degrees (1.00)
OPTIC LENS	NA	no accessory (1.00)
	HCL ⁴	honeycomb louver (0.74)
BEZEL LENS	NL ⁵	no lens (1.00)
	CL	clear lens (0.95)
	DL	diffused lens (0.92)
	E ⁶	elliptical beam spread (0.85)
	HET	high efficiency textured lens, similar to Solite™ (0.94)
	SBL	smoothing beam lens (0.95)
TRIM COLOR	BK	black
	WH	white
	MC	matte chrome
	BZ	bronze
	WT	wheat
	CC ⁷	custom color, consult factory for details
	Antimicrobial finish, add AM to black, white or matte chrome i.e. BKAM.	
BEZEL COLOR	Not applicable to trimless option. Do not include in trimless ordering code.	
	BK	black (0.98)
	WH	white (1.00)
	MC	matte chrome (0.99)
	BZ	bronze (0.98)
	WT	wheat (0.99)
	CC ⁷	custom color, consult factory for details
	Antimicrobial finish, add AM to black, white or matte chrome i.e. BKAM.	

14°- 55° BEAM ORDERING CODE		
MOUNTING OPTIONS SEE PAGE 5, 6	NC	new construction with ceiling fitting plate
	IC ⁸	insulation contact housing
	ICAT ⁸	insulation contact/airtight housing
	CP ⁸	chicago plenum housing
	RET	retrofit, no ceiling fitting plate
VOLTAGE	120	120V
	UNV	120V-277V
	LVL ⁹	low voltage luminaire
DIMMING	DIM10 ¹⁰	eldoLED flicker free 0-10V dimming to 1%
	DIM10Z ¹¹	eldoLED flicker free 0-10V dimming to 0%
	DALI	eldoLED flicker free DALI-2 dimming to 1%
	DALIZ ¹¹	eldoLED flicker free DALI-2 dimming to 0%
	LUTP ¹²	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELV1	leading & trailing edge (Triac/ELV) dimming to 1%
	NLT ¹³	nLight control interface: standard Cat-5/RJ45 connection (female), dim to off
	CAS	Casambi control with flicker free 1% dimming
	AWNR ¹⁴	lutron athena wireless node
	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	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)	<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:	
NU3 - SD - SW - 20LM - 35K - 90 - 55D - NA - NL - WH - WH - NC - UNV - DIM10 - EM7	

- NOTES
1. 35LM/40LM available in ELV1/DIM10 dimming.

2. 14D available in 10LM/15LM. Not available with DL/E lens.

3. 20D available in 10LM/15LM/20LM. Not recommended with DL/E lenses, beam angle increases by 25% or 2.5x.

4. HCL not available with lens.

5. NL option does not meet requirements for AT/DF/WET/NSF listings. Lensing cannot be added in the field.

6. Elliptical lens not available with 14D optic options. Actual beam distributions [20D= 40° x 65°, 25D= 44° x 70°, 30D= 47° x 71°, 35D= 51° x 73°, 55D= 55° x 75°]

7. Custom set up fee plus minimum quantity required per color.

8. IC/ICAT/CP not available in 40LM.

9. Must select ND dimming code, for remote driver or POE specifications see page 9.

10. DIM10 code uses ERP 1% Driver for 35LM/40LM.

11. DIM10Z/DALIZ not available in 35LM/40LM.

12. LUTP not available in 20D/20LM or 25LM/30LM/35LM/40LM.

13. For servicing access above ceiling is required.

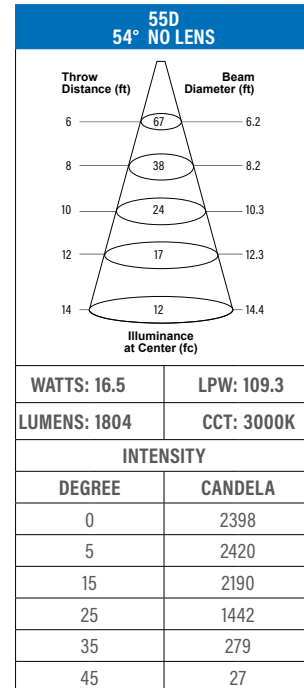
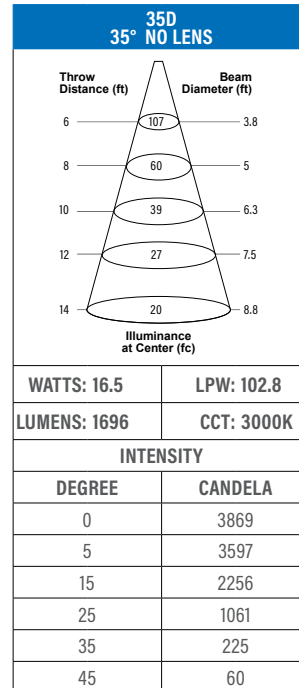
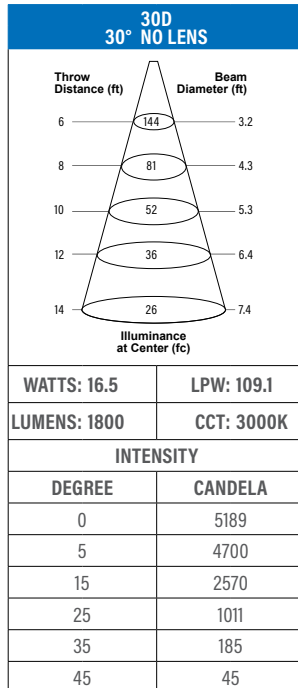
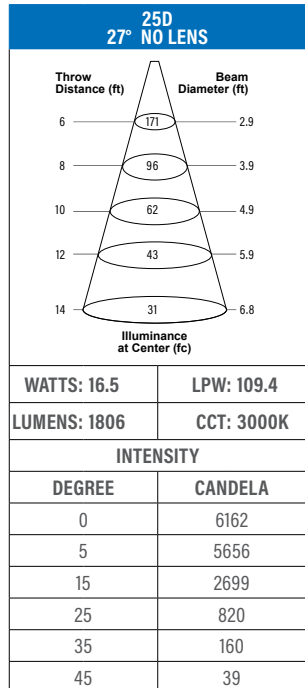
14. AWRN reference page 10 for product specifications on Athena wireless node.
- * EldoLED and DMX uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

PROJECT INFORMATION		
JOB NAME		TYPE
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PHOTOMETRIC DATA

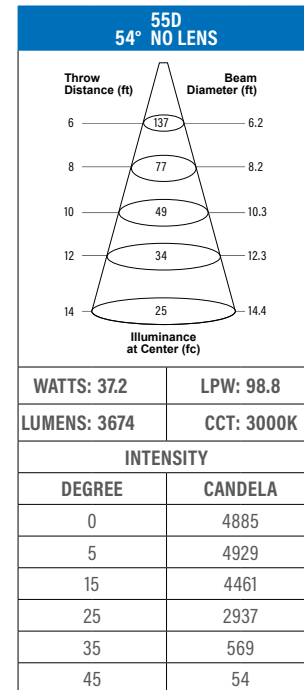
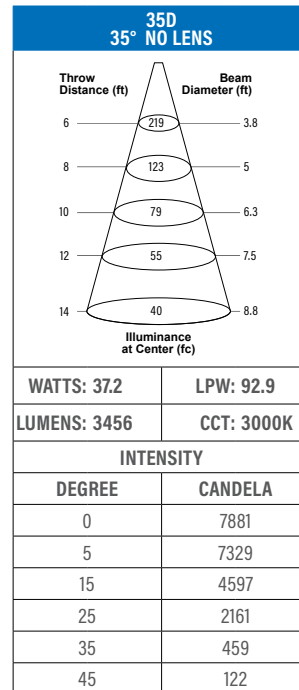
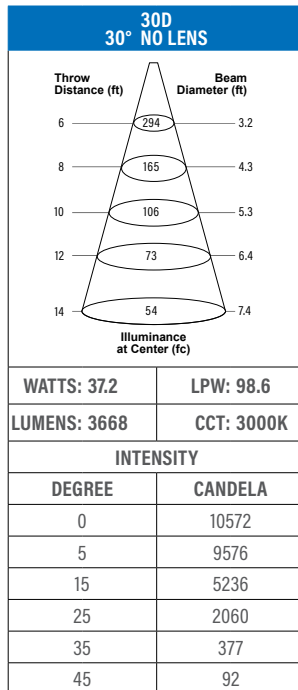
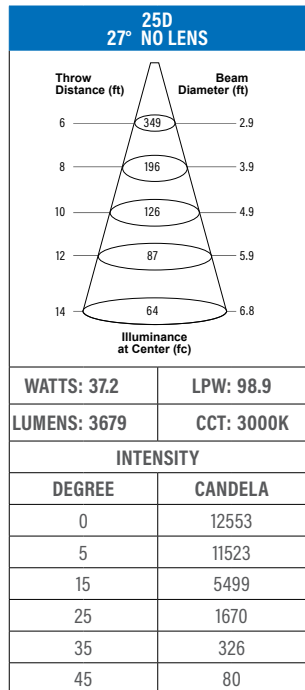
20LM

	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		



40LM

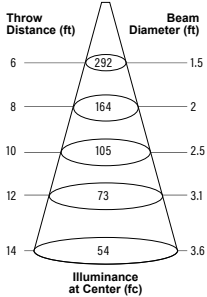
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance ²		

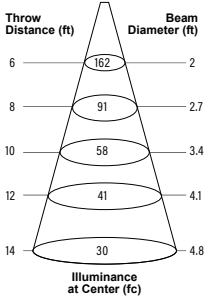


PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

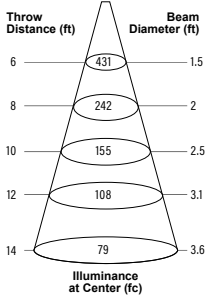
PHOTOMETRIC DATA

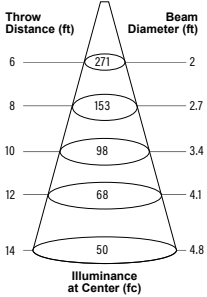
10LM		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance ²		

14D 14.5° NO LENS	
	
WATTS: 11.16	LPW: 89.5
LUMENS: 999	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	10518
5	7729
15	1084
25	150
35	34
45	6

20D 19.3° NO LENS	
	
WATTS: 8.8	LPW: 104
LUMENS: 915	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	5838
5	4760
15	1273
25	218
35	43
45	11

15LM		
	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		

14D 14.5° NO LENS	
	
WATTS: 17.9	LPW: 82.3
LUMENS: 1474	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	15514
5	11400
15	1599
25	221
35	49
45	9

20D 19.3° NO LENS	
	
WATTS: 14.8	LPW: 103.4
LUMENS: 1531	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	9763
5	7960
15	2129
25	365
35	72
45	19

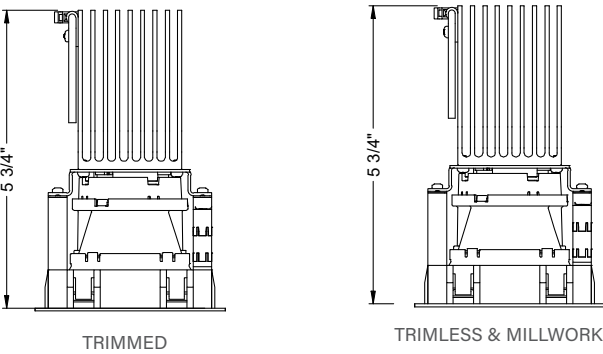
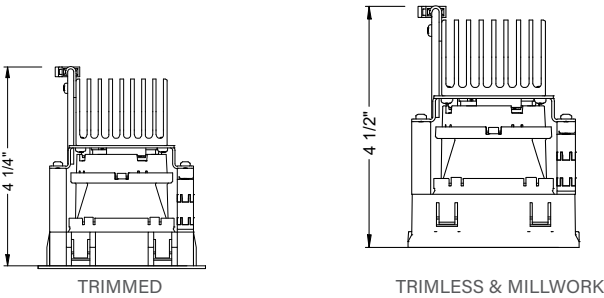
PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

MOUNTING OPTIONS

FIXTURE HEIGHT

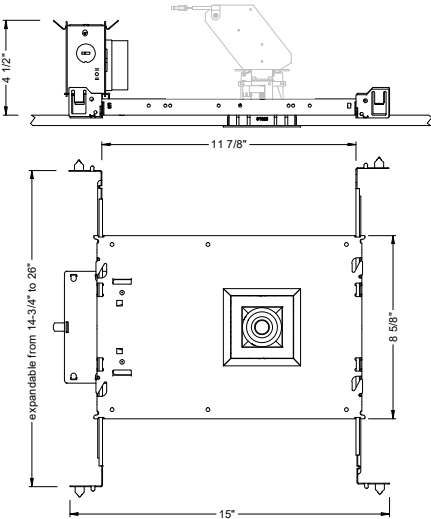
LED LIGHT ENGINE: 10LM - 30LM

LED LIGHT ENGINE: 35LM - 40LM

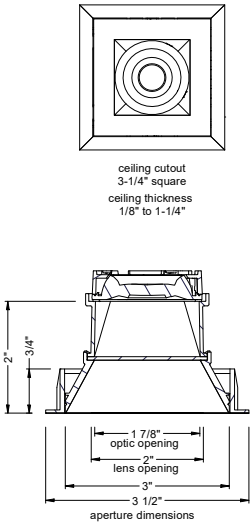


NC - NEW CONSTRUCTION

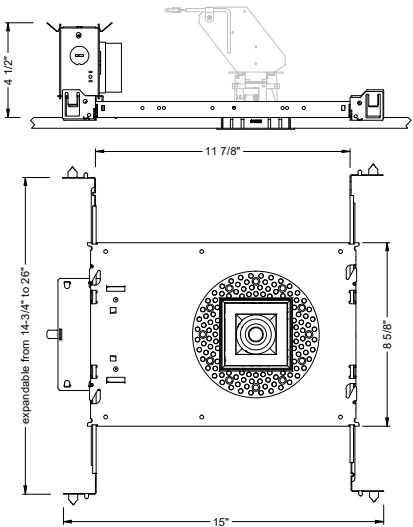
TRIM



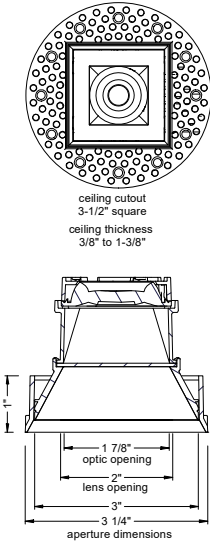
TRIM



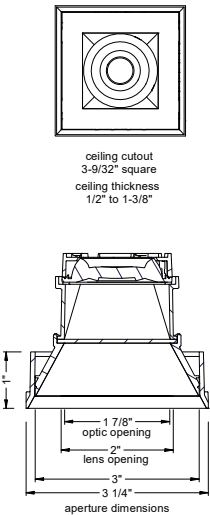
TRIMLESS



TRIMLESS



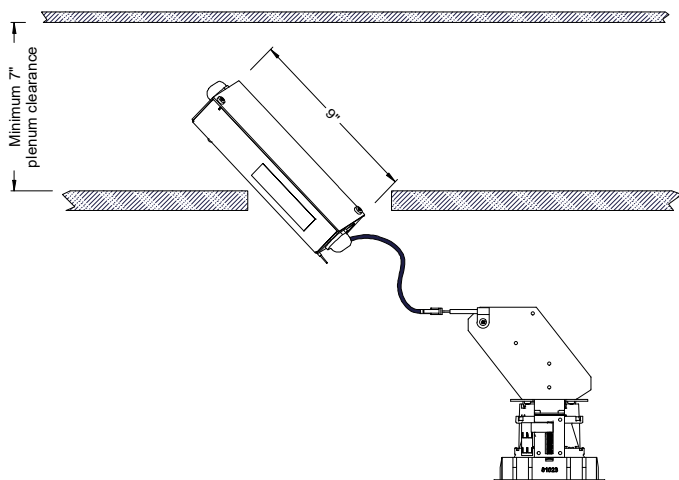
TRIMLESS/MILLWORK



PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS (CONTINUED)

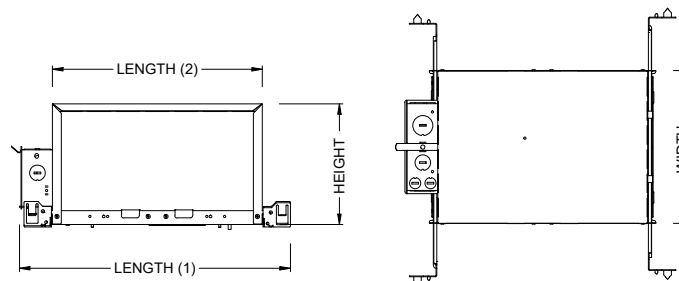
RET - RETRO TRIM/TRIMLESS



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
	STANDARD CEILING THICKNESS	CEILING CUTOUT
TRIM	1/8" to 1-1/4"	3-1/4" square
TRIMLESS	3/8" to 1-3/8"	3-1/2" square
MILLWORK (TRIMLESS)	1/2" to 1-3/8"	3-9/32" square

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"

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (30°-55°)						
LUMEN OUTPUT	BOX - A			BOX - B		
	IC	ICAT	CP	IC	ICAT	CP
10LM	✓	✓	✓			
15LM	✓	✓	✓			
20LM	✓	✓	✓			
25LM	✓	✓	✓			
30LM				✓	✓	✓
35LM				✓	✓	✓
40LM						

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

BOX TYPE / LUMEN OUTPUT - NARROW BEAM (14°)			
LUMEN OUTPUT	BOX - A		
	IC	ICAT	CP
10LM	✓	✓	✓
15LM	✓	✓	✓

PROJECT INFORMATION			
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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

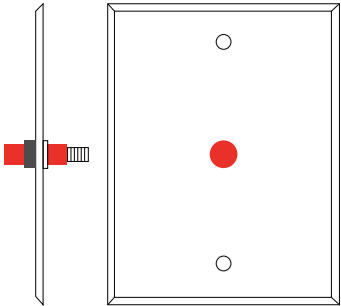
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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

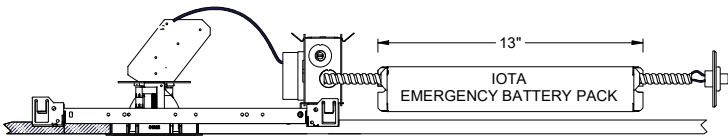
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



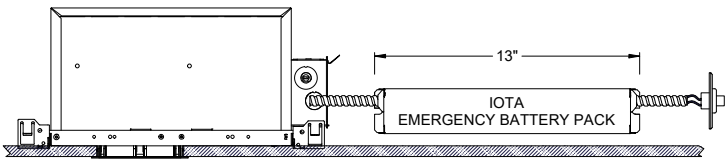
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 30LM)	700LM	1100LM	1300LM
NotesBased on 30K, 80CRI			

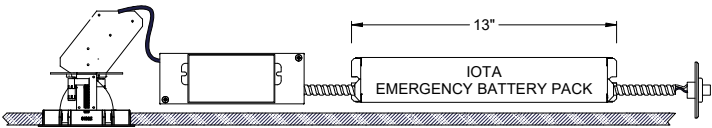
NC - NEW CONSTRUCTION
WITH EM BATTERY (REMOTE TEST SWITCH)



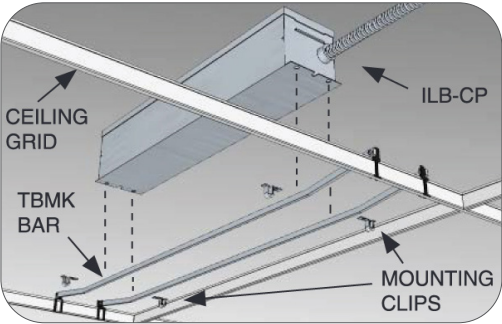
IC / ICAT / CP - INSULATION CONTACT HOUSING
WITH EM BATTERY (REMOTE TEST SWITCH)



RET - RETROFIT
WITH EM BATTERY (REMOTE TEST SWITCH)



Accessory
76066 Optional T-Grid Mounting Kit¹



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			

LOW VOLTAGE OPTIONS

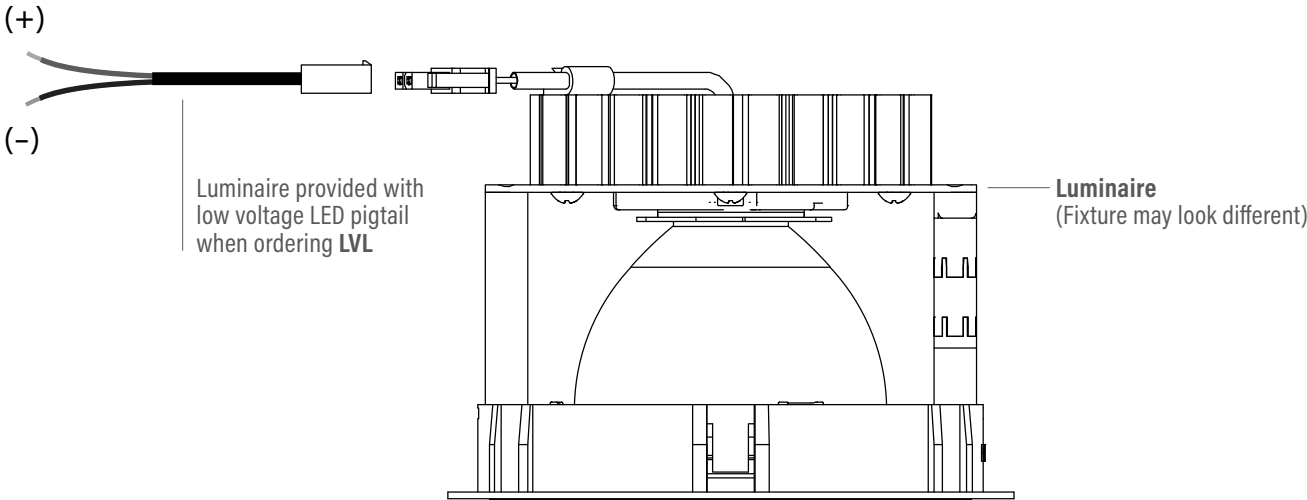
30° - 55° BEAM			
(Note: Specifications are subject to change without notice)			
14mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	810LM @30K/80CRI	200mA	7.5W
15LM	1260LM @30K/80CRI	300mA	11W
20LM	1800LM @30K/80CRI	425mA	15.5W
25LM	2230LM @30K/80CRI	525mA	19W
30LM	2740LM @30K/80CRI	650mA	23.5W
35LM	3190LM @30K/80CRI	775mA	28W
40LM	3670LM @30K/80CRI	900mA	32.5W
10LM	690LM @30K/90CRI	200mA	7.5W
15LM	1070LM @30K/90CRI	300mA	11W
20LM	1530LM @30K/90CRI	425mA	15.5W
25LM	1890LM @30K/90CRI	525mA	19W
30LM	2330LM @30K/90CRI	650mA	23.5W
35LM	2710LM @30K/90CRI	775mA	28W
40LM	3120LM @30K/90CRI	900mA	32.5W
Notes	Delivered lumens based on 55D optic with no lens, (see page 2)		

20° BEAM			
(Note: Specifications are subject to change without notice)			
10mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	920LM @30K/80CRI	200mA	7.5W
15LM	1530LM @30K/80CRI	350mA	13W
20LM	2090LM @30K/80CRI	500mA	18W
10LM	780LM @30K/90CRI	200mA	7.5W
15LM	1300LM @30K/90CRI	350mA	13W
20LM	1770LM @30K/90CRI	500mA	18W
Notes	Delivered lumens based on 20D optic no lens, (see page 2)		

14° BEAM			
(Note: Specifications are subject to change without notice)			
6mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	1000LM @30K/80CRI	250mA	9W
15LM	1470LM @30K/80CRI	400mA	14.5W
10LM	850LM @30K/90CRI	250mA	9W
15LM	1250LM @30K/90CRI	400mA	14.5W
Notes	Delivered lumens based on 20D optic no lens, (see page 2)		

NOMINAL LED VOLTAGE: 36VDC

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



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.

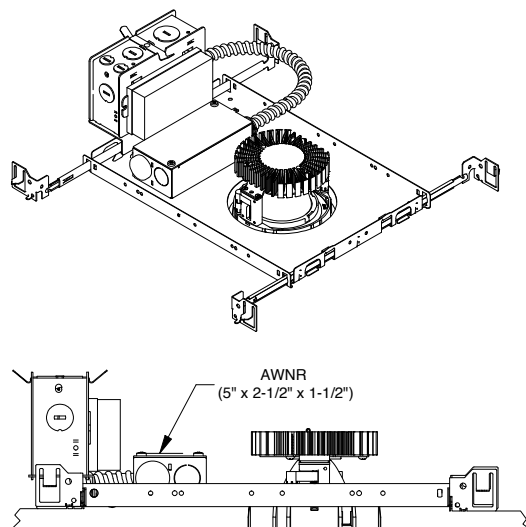
Note: Default behavior prior to programming

- 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

