

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

NU4

4" Square Downlight Warm Dim



AT
airtight

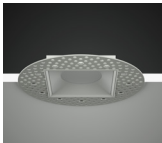
DF
dead-front

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	980LM @30K/97CRI	12W
15LM	1510LM @30K/97CRI	18W
20LM	2100LM @30K/97CRI	24W
25LM	2590LM @30K/97CRI	30W
Notes	Delivered lumens based on 55D optic with no lens, (see page 2)	

20° - 25° BEAM		
(Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	980LM @30K/97CRI	12W
15LM	1510LM @30K/97CRI	18W
Notes	Delivered lumens based on 25D optic with no lens, (see page 2)	

FEATURES

- 3/4" bezel regress with 1/16" micro flange
- 20° - 55° optical beam control
- UGR < 19
- Up to 85 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%
- DMX dim to zero
- Lutron Hi-lume Eco System dimming to 0.1%
- Leading & trailing edge (Triac/ELV) dimming to 1%
- Lutron athena wireless node
- 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 1-3/4"

LED

- Luminus Dim-to-warm COB: 97 CRI: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L₇₀ > 54,000 hrs
- Dim to Warm from 3000K - 1800K.

LISTING

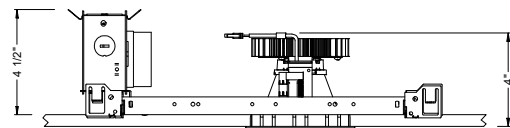
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- **Declare.** - LBC Red List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

ELECTRICAL

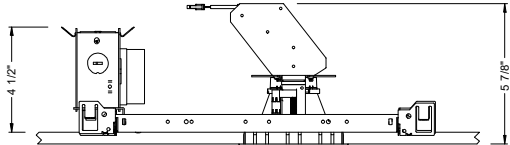
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote and Integral (ITS) emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)
- Low Voltage Luminaire option, see page 10.

FIXTURE HEIGHT

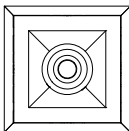
LED LIGHT ENGINE: 10LM - 15LM



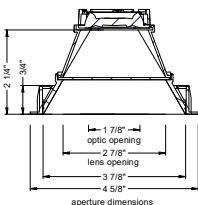
LED LIGHT ENGINE: 20LM - 25LM



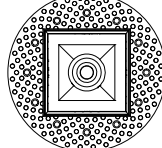
TRIMMED



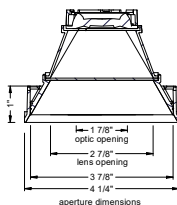
ceiling cutout
4-1/4" square
ceiling thickness
1/8" to 1-5/8"



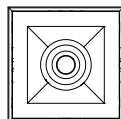
TRIMLESS



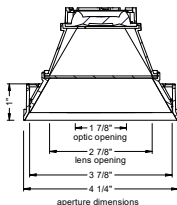
ceiling cutout
4-1/2" square
ceiling thickness
3/8" to 1-3/4"



MILLWORK



ceiling cutout
4-1/4" square
ceiling thickness
1/2" to 1-3/4"



PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

20°- 55° BEAM ORDERING CODE		
SERIES	NU4	NU4
TYPE	SD	square downlight
	SDT	square downlight trimless
	SDTMW	square downlight trimless millwork
LED	WD	warm dim (Luminus)
DELIVERED LUMENS	10LM	980 lm
	15LM	1510 lm
	20LM	2100 lm
	25LM	2590 lm
	Standard Configuration: 3000K 97CRI 55D, NL Calculated Delivered Lumens = [Delivered Lumen Value] x [Optic Multiplier] x [Lens Multiplier]	
CCT	3018	3000K, dim to 1800K
		CCT at Light Level (%LF)
		%LF30LM20LM15LM10LM
		100%3000300030003000
		50%3000300030002800
		25%2800280025002300
		10%2200220020001900
		5%1800180018001800
CRI	97	97 CRI
OPTIC & LM MULTIPLIER SEE PAGE 3	20D ¹	20 degrees (1.00)
	25D ¹	25 degrees (1.00)
	30D	30 degrees (0.96)
	40D	40 degrees (0.91)
	55D	55 degrees (1.00)
OPTIC LENS	NA	no accessory (1.00)
	HCL ²	honeycomb louver (0.70)
BEZEL LENS	NL ³	no lens (1.00)
	CL	clear lens (0.96)
	DL	diffused lens (0.94)
	E ⁴	elliptical beam spread (0.93)
	HET	high efficiency textured lens, similar to Solite™ (0.95)
	SBL	smoothing beam lens (0.95)
TRIM COLOR	BK	black
	WH	white
	MC	matte chrome
	BZ	bronze
	WT	wheat
	CC ⁵	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	BK	black (0.98)
	WH	white (1.00)
	MC	matte chrome (0.99)
	BZ	bronze (0.98)
	WT	wheat (0.99)
	CC ⁵	custom color, consult factory for details
	Antimicrobial finish, add AM to black, white or matte chrome i.e. BKAM.	

20°- 55° BEAM ORDERING CODE		
MOUNTING OPTIONS SEE PAGE 6, 7	NC IC ⁶ ICAT ⁶ CP ⁶ RET	new construction with ceiling fitting plate insulation contact housing insulation contact/airtight housing chicago plenum housing retrofit, no ceiling fitting plate
	120 UNV LVL ⁷	120V 120V-277V low voltage luminaire
	DIM10 DIM10Z DALI DALIZ DMXZ DMXZ LUTP ⁸	eldoLED flicker free 0-10V dimming to 1% eldoLED flicker free 0-10V dimming to 0% eldoLED flicker free DALI-2 dimming to 1% eldoLED flicker free DALI-2 dimming to 0% DMX dim to zero Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELVI ⁹ NLT	leading & trailing edge (Triac/ELV) dimming to 1% nLight control interface: standard Cat-5/RJ45 connection (female), dim to off
	CAS ND	Casambi control with flicker free 1% dimming No Driver Included. Customer to Supply PoE system components or order remote driver separately. Refer to POE reference sheet for additional POE details.
ELECTRICAL OPTIONS	AWN ¹⁰	lutron athena wireless node
	EM7 ¹¹	emergency battery backup, 90 minutes at 7W to LED
	EM12 ¹¹	emergency battery backup, 90 minutes at 12W to LED
	EM10CA20 ¹¹	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:	
NU4 - SD - WD - 20LM - 3018 - 97 - 55D - NA - NL - WH - WH - NC - UNV - DIM10 - EM7	

NOTES

1. 20D/25D available in 10LM/15LM. Not recommended with DL/E lenses, beam angle increases by 25% or 2.5x.

2. HCL not available with lens.

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

4. Elliptical lens actual beam distributions [20D= 30° x 60°, 25D= 35° x 65°, 30D= 45° x 70°, 40D= 50° x 75°, 55D= 60° x 85°]

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

6. IC/ICAT/CP not available for 25LM.

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

8. LUTP not available in 20LM/25LM.

9. ELVI dimming available in 120V.

10. AWNR reference page 10 for product specifications on Athena wireless node.

11. For integrated test switch add "ITS" after emergency backup code, i.e. EM12ITS. Test switch is mounted in the bezel of the fixture.

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

* Warm Dim CCT values at X% are for reference. Actual CCT may vary.

alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
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TRIM OPTIONS

TRIM/BEZEL COLORS



WH



MC



BK



BZ



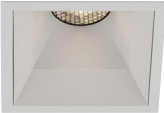
WT

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.

HCL

Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
20D	17	≤5
25D	23	≤5
30D	27	6.9
40D	32	9.6
55D	47	13.3

NL

No Lens



OPTIC	BEAM ANGLE	UGR
20D	18	6.4
25D	25	6
30D	28	12.1
40D	38	15.1
55D	54	16.9

CL

Clear Lens



OPTIC	BEAM ANGLE	UGR
20D	18	6.3
25D	25	5.9
30D	28	11.7
40D	38	14.8
55D	54	16.7

DL

Diffused Lens



OPTIC	BEAM ANGLE	UGR
30D	42	18.2
40D	50	19.6
55D	59	20.7

HET

High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D	23	10.8
25D	28	11.7
30D	31	13.6
40D	39	15.9
55D	54	17.7

SBL

Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
20D	20	8
25D	26	9
30D	29	11.7
40D	39	14.8
55D	55	16.8

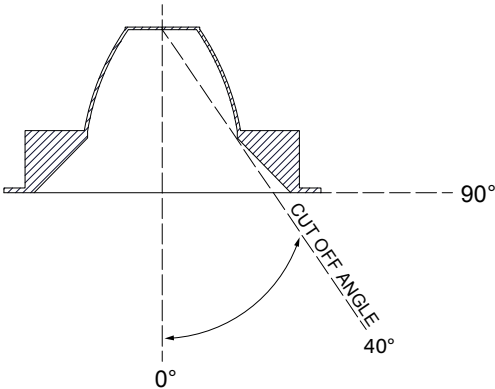
GLARE CONTROL

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.

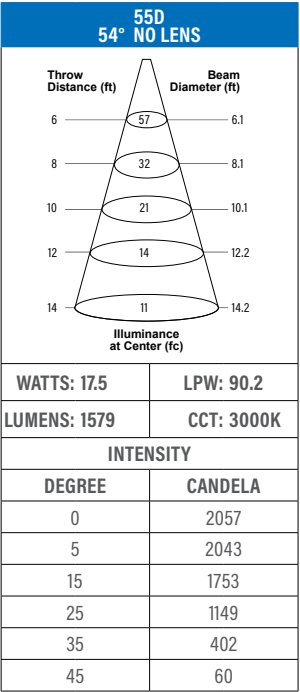
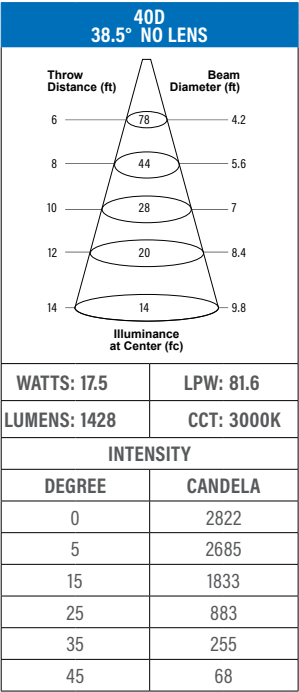
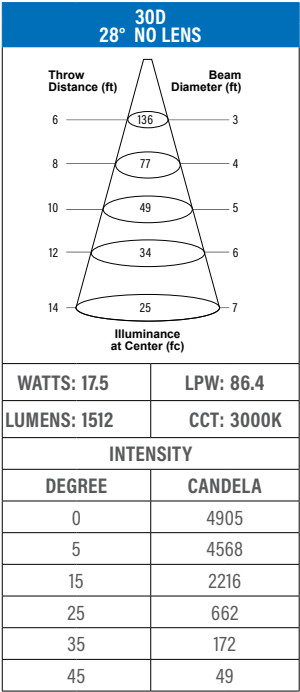
- Cutoff angle of NL and CL is 40° degrees;



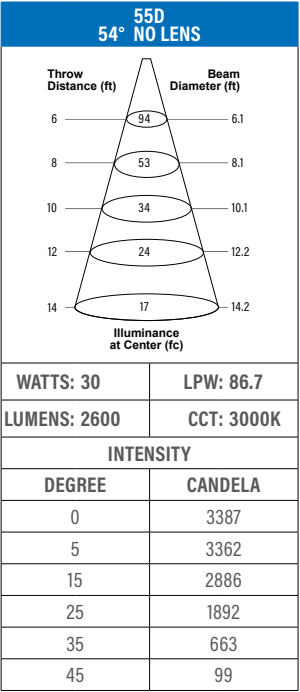
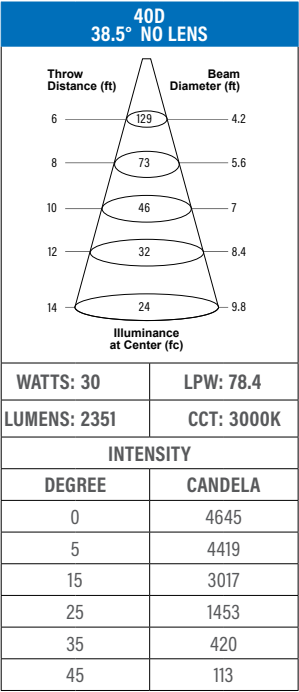
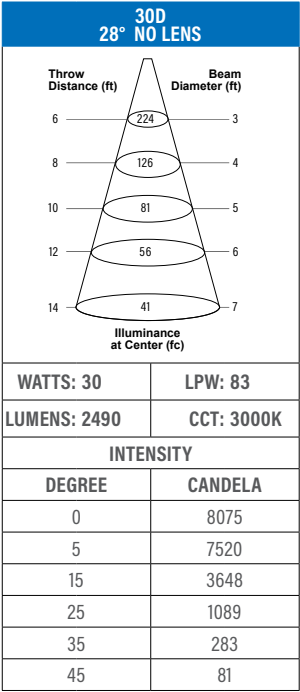
PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

PHOTOMETRIC DATA

15LM



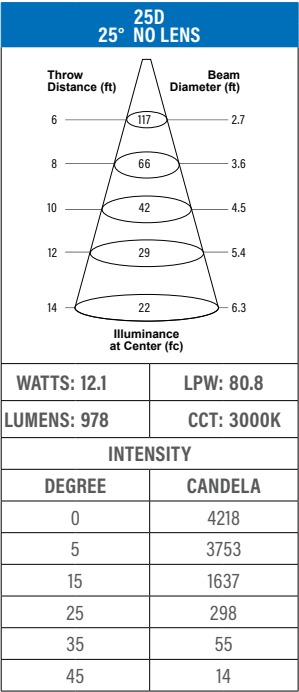
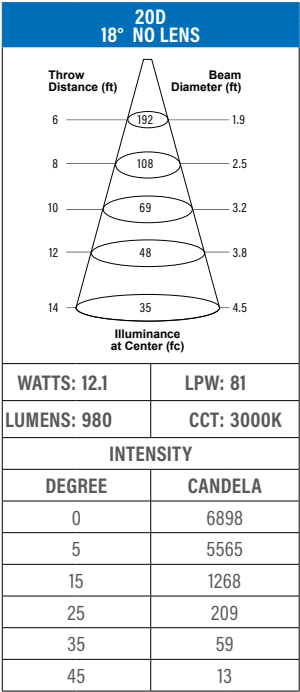
25LM



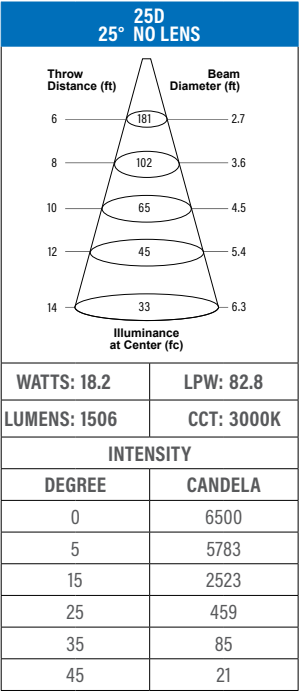
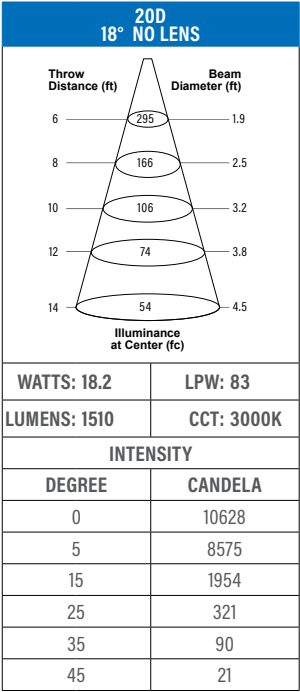
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

10LM



15LM

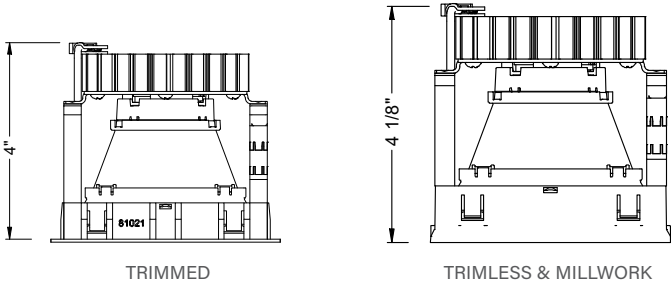


PROJECT INFORMATION		
JOB NAME	TYPE	
ORDERING CODE		

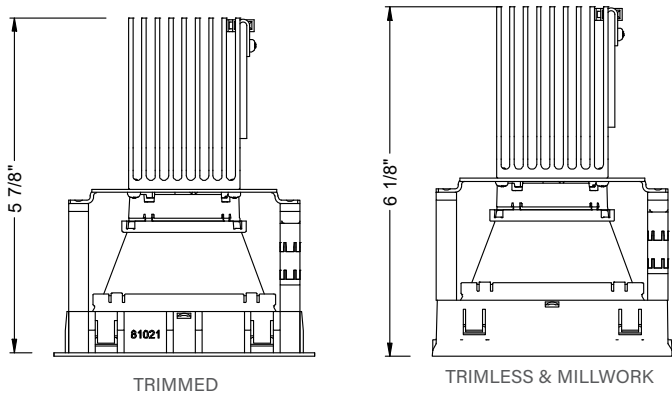
MOUNTING OPTIONS

FIXTURE HEIGHT

LED LIGHT ENGINE: 10LM - 15LM

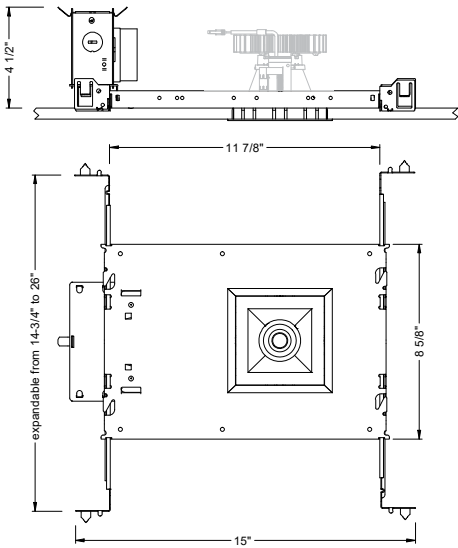


LED LIGHT ENGINE: 20LM - 25LM

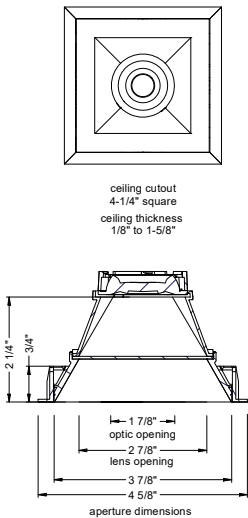


NC - NEW CONSTRUCTION

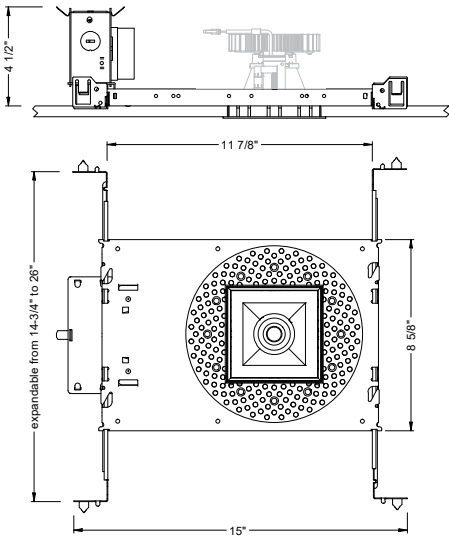
TRIM



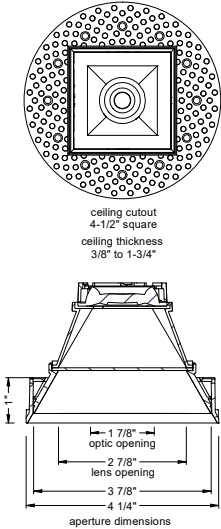
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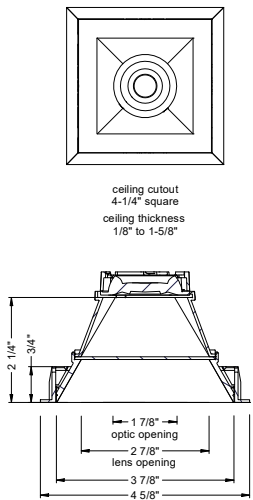
TRIMLESS



TRIMLESS



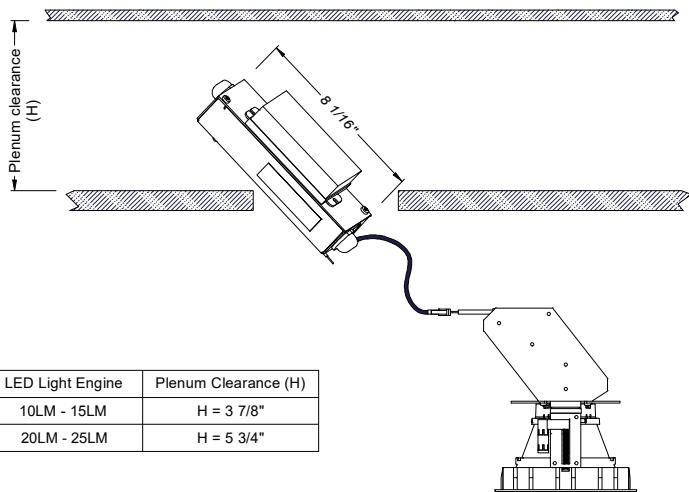
TRIMLESS/MILLWORK



PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

RET - RETRO TRIM/TRIMLESS



LED Light Engine	Plenum Clearance (H)
10LM - 15LM	H = 3 7/8"
20LM - 25LM	H = 5 3/4"

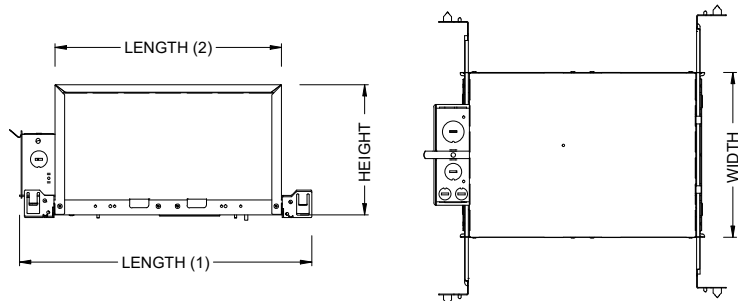
RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✓	✓			
TYPE IC			✓	✓	✓
CHICAGO PLENUM (CCEA)					✓
SUITABLE FOR AIR HANDLING PLENUMS	✓	✓	✓	✓	✓
REDUCED AIRFLOW (WITH LENS) ASTM E283	✓	✓	✓	✓	✓

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

IC - INSULATION CONTACT HOUSING

ICAT - INSULATION CONTACT / AIR TIGHT

CP - CHICAGO PLENUM



BOX SIZE	L1	L2	W	H
A	15 - 7/16"	11 - 3/4"	8 - 1/2"	6 - 3/4"
B	18 - 1/4"	14 - 7/8"	12 - 1/8"	11 - 1/4"

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

BOX TYPE / LUMEN OUTPUT - NARROW BEAM (20°-25°)			
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.

INTEGRATED TEST SWITCH

The integrated test switch mounted onto fixture bezel.

REMOTE TEST SWITCH

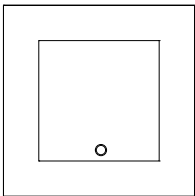
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS

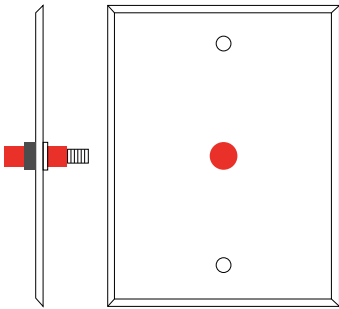
Above ceiling access is recommended for ease of service, but LED Fixture Sizes of 4" and Larger are capable of below ceiling access. IC/ICAT/CP Box and ITS option require an access panel in the ceiling (or other form of access) adjacent to the installation location of the Emergency Battery.

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.



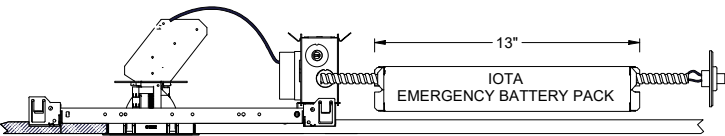
Integrated Test Switch



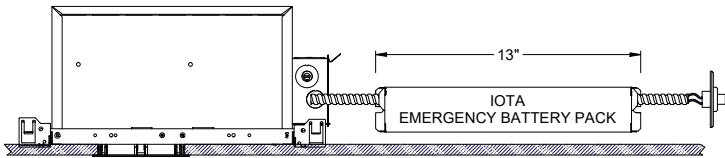
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 30LM)	650LM	900LM	1100LM
Notes Based on 30K, 97CRI			

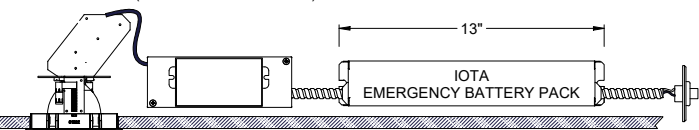
NC - NEW CONSTRUCTION WITH EM BATTERY (REMOTE TEST SWITCH)



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

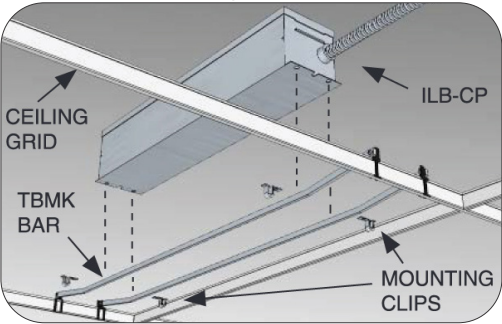


RET - RETROFIT WITH EM BATTERY (REMOTE TEST SWITCH)



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.

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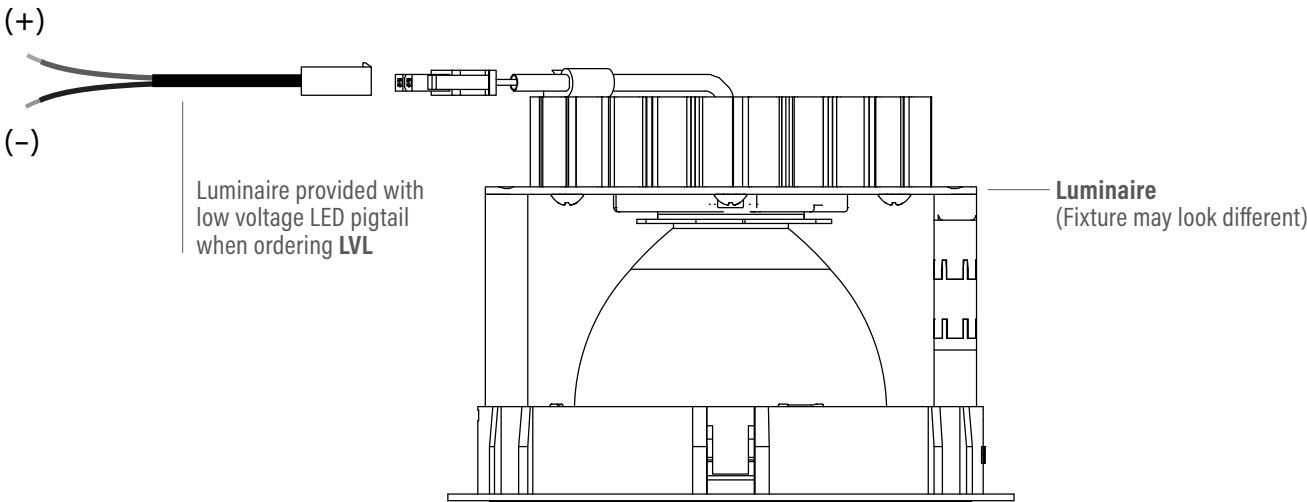
LOW VOLTAGE OPTIONS

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	980LM @30K/97CRI	300mA	11W
15LM	1510LM @30K/97CRI	450mA	16.5W
20LM	2100LM @30K/97CRI	600mA	22W
25LM	2590LM @30K/97CRI	750mA	27W
Notes	Delivered lumens based on 55D optic with no lens, (see page 2)		

20° - 25° BEAM			
(Note: Specifications are subject to change without notice)			
9mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	980LM @30K/97CRI	300mA	11W
15LM	1510LM @30K/97CRI	450mA	16.5W
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.



PROJECT INFORMATION			
JOB NAME		TYPE	
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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 AWRN.

NC - NEW CONSTRUCTION

RET - RETRO FIT

