alphabet

NU1

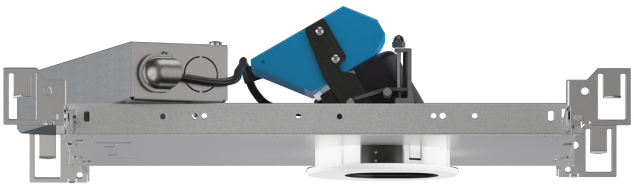
1" Round Adjustable Pinhole Warm Dim

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

30° - 35° BEAM (Note: Specifications are subject to change without notice)		
14mm DYNAMIC COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
20LM	1200LM @30K/97CRI	26W
Notes	Delivered lumens based on 30D optic with no lens, (see page 2)	

15° - 30° BEAM (Note: Specifications are subject to change without notice)		
9mm DYNAMIC COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	690LM @30K/97CRI	13W
15LM	930LM @30K/97CRI	19W
Notes	Delivered lumens based on 30D optic with no lens, (see page 2)	

PR plenum rated





Trim

FEATURES

- True 30° Tilt with <5% beam disruption (clipping)
- Zero ceiling line obstruction at Full Tilt
- Concentric Tilt Tracking ensures minimal light loss
- 15° - 50° optical beam control
- UGR <5
- Multiple mounting, glare control options, trims, and finishes available

DIMMING AND CONTROLS

- eldoLED flicker free 0-10V dimming to 0% and 1%
- eldoLED flicker free DALI dimming to 0% and 1%
- Lutron Hi-lumen 2-Wire (Triac and Eco System) dimming to 0.1%
- Leading & trailing edge (Triac/ELV) dimming to 1%
- Casambi dimming to 0.1%
- NLight control interface dimming to 0%

CONSTRUCTION

- Lexan™ (PC) Optimal connectivity for wireless control signal.
- Impact and chemical resistant at the highest level.
- Withstands temperatures up to 240°F.
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 0.2" to 1.25"

LED

- Luminus Dim-to-warm COB: 97 CRI: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L_{70} > 54,000 hrs
- Dim to Warm from 3000K - 1800K.

LISTING

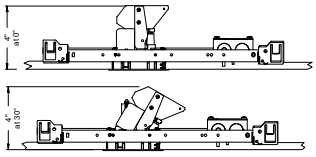
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- Suitable for dry and damp locations
- Made in the USA - meets the requirements of the Buy American provision within the ARRA
- 5 Year Limited warranty

ELECTRICAL

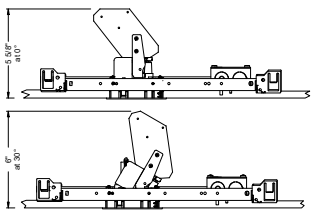
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)

FIXTURE HEIGHT

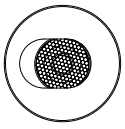
LED LIGHT ENGINE: 1000LM - 1500LM



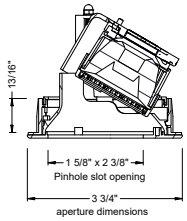
LED LIGHT ENGINE: 2000LM



TRIMMED



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



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alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

15°- 30° BEAM ORDERING CODE

SERIES	**NU1**	NU1
TYPE	**RAPH**	round adjustable, pinhole
LED	**WD**	warm dim (Luminus)
DELIVERED LUMENS	**10LM**[1]	690 lm
	15LM[1]	930 lm
	20LM[2]	1200 lm
	Standard Configuration: 30D NA **Calculated Delivered Lumens** = [Delivered Lumen Value] x [Optic Multiplier] x [Lens Multiplier]	
CCT	**3018**	3000K, dim to 1800K

CCT at Light Level (%LF)

%LF	20LM	15LM	10LM
100%	3000	3000	3000
50%	3000	3000	2800
25%	2800	2500	2300
10%	2200	2000	1900
5%	1800	1800	1800

CRI	**97**	97 CRI	
OPTIC & LM MULTIPLIER SEE PAGE 3	**15D**	15 degrees	(0.77)
	25D	25 degrees	(0.89)
	30D	30 degrees	(1.00)
TIR OPTIC ACCESSORY SEE PAGE 3	**NA**	no accessory	(1.00)
	HCL	honeycomb louver	(0.73)
	DL	diffused lens	(0.74)
	HETA	high efficiency textured lens, similar to Solite™	(0.90)
	SBL	smoothing beam lens	(0.94)
	Attached to TIR optic, active		
TRIM COLOR SEE PAGE 3	**BK**	black, with black optical cavity	
	WH	white, with black optical cavity	

15°- 30° BEAM ORDERING CODE

MOUNTING OPTIONS SEE PAGE 5, 6	**NC**	new construction with ceiling fitting plate
	IC	insulation contact housing
	ICAT[3]	insulation contact/airtight housing
	CP[3]	chicago plenum housing
	RET	retrofit, no ceiling fitting plate
VOLTAGE	**120**	120V
	UNV	120V-277V
DIMMING	**DIM10**	eldoLED flicker free 0-10V dimming to 1%
	DIM10Z	eldoLED flicker free 0-10V dimming to 0%
	DALI	eldoLED flicker free DALI-2 dimming to 1%
	DALIZ	eldoLED flicker free DALI-2 dimming to 0%
	LUTP[4]	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELV1[5]	leading & trailing edge (Triac/ELV) dimming to 1%
	NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dim to off
	CAS	Casambi control with flicker free 1% dimming
ELECTRICAL OPTIONS	**EM7**	emergency battery backup, 90 minutes at 7W to LED
	EM12	emergency battery backup, 90 minutes at 12W to LED
	EM10CA20	remote emergency battery backup, 90 minutes at 10W to LED, CA title 20

ADDITIONAL MOUNTING INFO

New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

NU1 - RAPH - WD - 20LM - 3018 - 97 - 30D - HET - WH - NC - UNV - DIM10 - EM7

NOTES

1. 10LM/15LM available with 15D/25D/30D optics.
2. 20LM available with 25D/30D optics.
3. IC/ICAT/CP not available in 20LM.
4. LUTP not available in 20LM.
5. ELV1 available in 120V.

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



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.

TIR OPTIC ACCESSORY
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
15D	15	≤5
25D	21	≤5
30D	28	≤5

TIR OPTIC ACCESSORY
DL



OPTIC	BEAM ANGLE	UGR
15D	31	9.3
25D	35	13.1
30D	39	14.3

TIR OPTIC ACCESSORY
HET



OPTIC	BEAM ANGLE	UGR
15D	20	≤5
25D	25	7.5
30D	31	7.9

NA
No Accessory



OPTIC	BEAM ANGLE	UGR
15D	16	≤5
25D	23	≤5
30D	31	≤5

TIR OPTIC ACCESSORY
SBL



OPTIC	BEAM ANGLE	UGR
15D	17	≤5
25D	23	≤5
30D	31	≤5

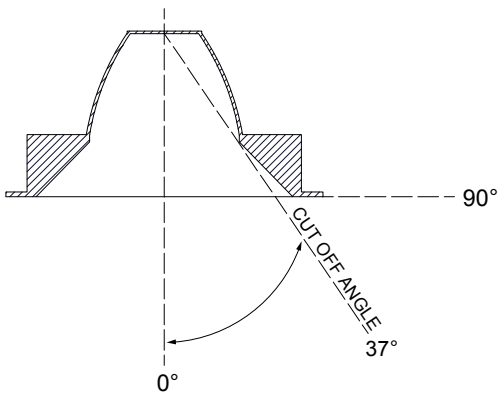
GLARE CONTROL

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 37 degrees;



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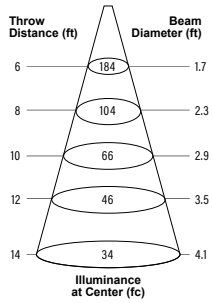
In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

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PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

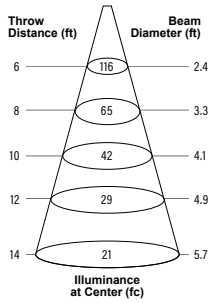
15D 16° NO LENS



WATTS: 19	LPW: 37.1
LUMENS: 704	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	6639
5	5144
15	900
25	58
35	5
45	2

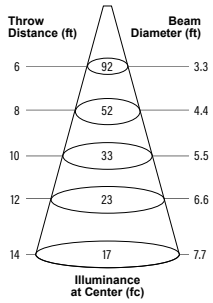
25D 23° NO LENS



WATTS: 19	LPW: 43.2
LUMENS: 821	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	4180
5	3622
15	1360
25	230
35	17
45	3

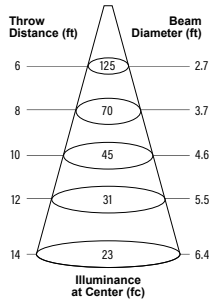
30D 31° NO LENS



WATTS: 19	LPW: 48.8
LUMENS: 928	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	3298
5	3107
15	1715
25	344
35	13
45	2

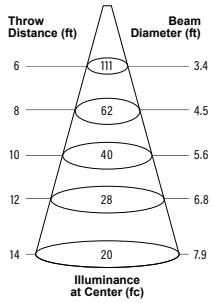
25D 26° SMOOTHING BEAM LENS



WATTS: 25.6	LPW: 41.4
LUMENS: 1060	CCT: 3000K

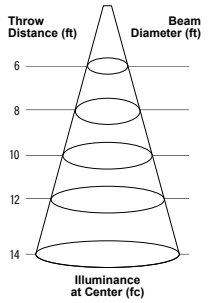
INTENSITY	
DEGREE	CANDELA
0	4484
5	3996
15	1794
25	390
35	34
45	6

30D 31° SMOOTHING BEAM LENS



WATTS: 25.6	LPW: 46.9
LUMENS: 1200	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	3991
5	3728
15	2130
25	531
35	29
45	5



INTENSITY	
DEGREE	CANDELA
0	
5	
15	
25	
35	
45	

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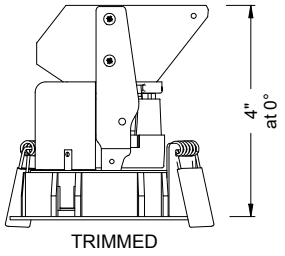
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

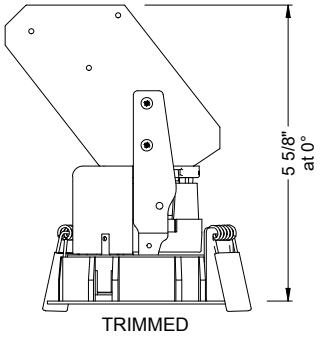
MOUNTING OPTIONS

FIXTURE HEIGHT

LED LIGHT ENGINE: 1000LM - 1500LM

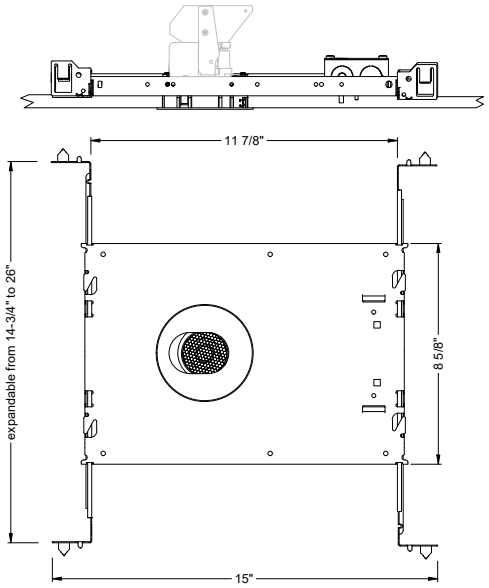


LED LIGHT ENGINE: 2000LM

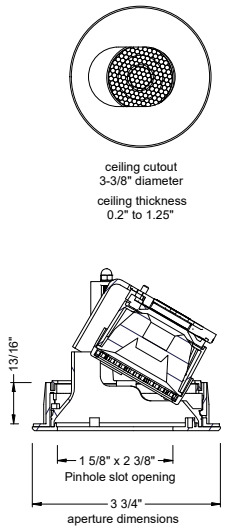


NC - NEW CONSTRUCTION

TRIM

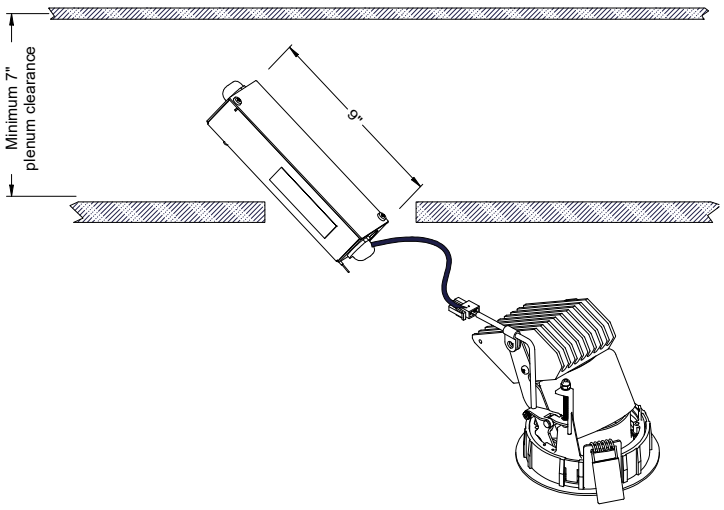


TRIM



RET - RETRO

TRIM/TRIMLESS



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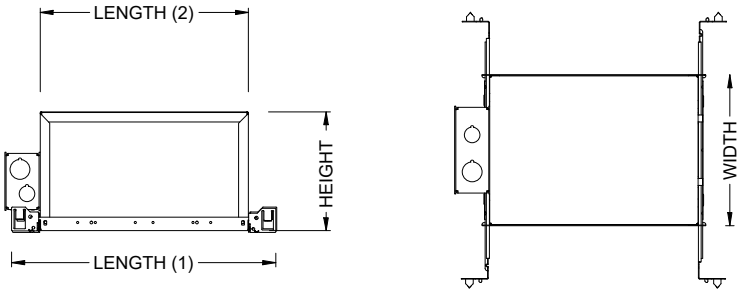
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS (CONTINUED)

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

CEILING THICKNESS	
FIXTURE TYPE	MOUNTING TYPE
	NC, IC, ICAT, CP, RET
	STANDARD CEILING THICKNESS
TRIM	0.2" to 1.25"

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"
C	18 - 1/4"	14 - 7/8"	12 - 1/8"	6 - 3/4"

BOX TYPE / LUMEN OUTPUT - NARROW BEAMS (15° - 30°)					
LUMEN OUTPUT	BOX - A			BOX - B	BOX -C
	CP	IC	ICAT	IC	ICAT
10LM	✔	✔	✔		
15LM	✔	✔	✔		

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (30° - 35°)					
LUMEN OUTPUT	BOX - A			BOX - B	BOX -C
	CP	IC	ICAT	IC	ICAT
20LM				✔	

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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.

INTEGRAL AND REMOTE TEST SWITCH

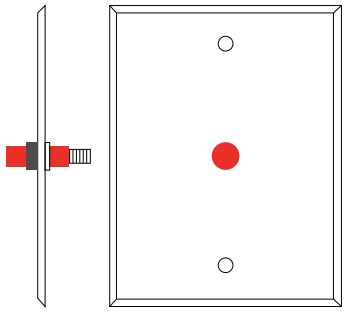
The LED Fixture may be offered with the option for an Integral Test Switch, which is mounted in the Trim/Bezel and pre-wired to the Emergency Circuitry. The Remote Test Switch comes as a standard option, and may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS

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

REMOTE LOCATION

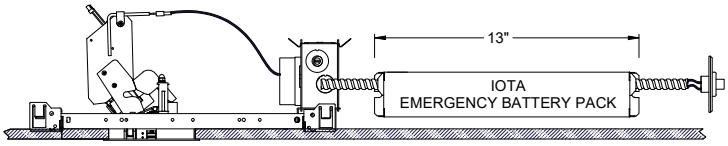
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



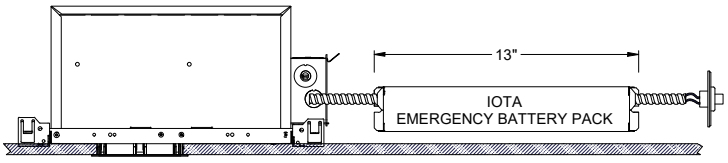
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 30LM)	400LM	570LM	670LM
Notes: Based on 30K, 97CRI			

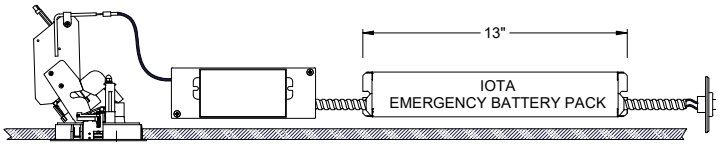
NC - NEW CONSTRUCTION
WITH EM BATTERY (REMOTE TEST SWITCH)



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

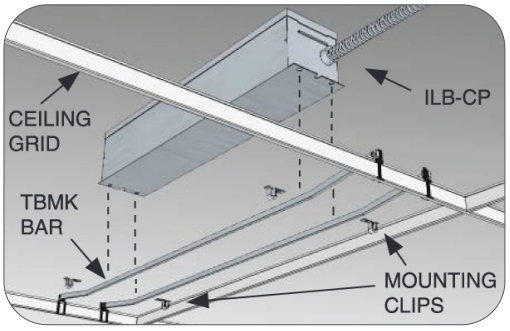


RET - RETROFIT
WITH EM BATTERY (REMOTE TEST SWITCH)



Accessory

76066 Optional T-Grid Mounting Kit[2]



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

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