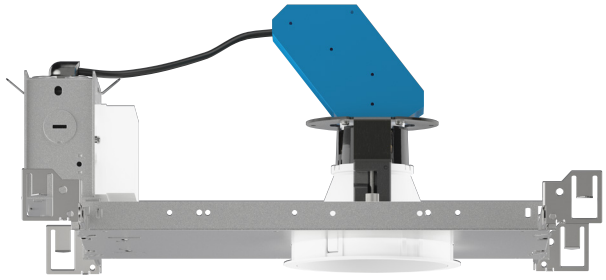
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU4

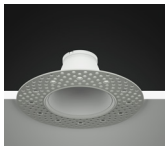
4" Round Downlight Deep Regress Standard White

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





Trim



Trimless



Trimless Millwork

20° - 50° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	970LM @30K/90CRI	9W
15LM	1500LM @30K/90CRI	14W
20LM	1990LM @30K/90CRI	19W
25LM	2450LM @30K/90CRI	25W
30LM	2990LM @30K/90CRI	34W
Notes	Delivered lumens based on 30D optic with no lens, (see page 2)	

15° 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	11W
15LM	1450LM @30K/80CRI	20W
10LM	850LM @30K/90CRI	11W
15LM	1230LM @30K/90CRI	20W
Notes	Delivered lumens based on 15D optic with no lens (see page 2)	

9.5° BEAM (Note: Specifications are subject to change without notice)		
4.5mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	1000LM @30K/80CRI	17.5W
10LM	850LM @30K/90CRI	17.5W
Notes	Delivered lumens based on 9D optic with no lens (see page 2)	

FEATURES

- Quiet ceiling achieved through 2.5" deep regress
- Superior 38.5° cut off angle
- UGR <5
- 9° - 50° optical beam control
- 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%
- DMX dim to zero
- Lutron Hi-lumen 2-Wire (Eco System) dimming to 0.1% and 1%
- 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

LISTING

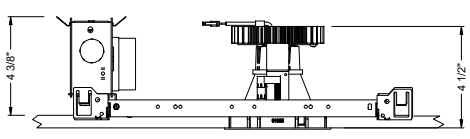
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (Shower Approved)
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- **Declare.** - LBC Red List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

ELECTRICAL

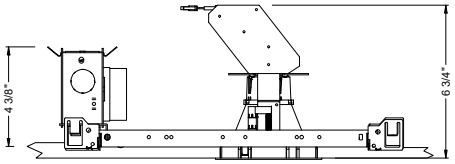
- 120V only Triac/ELV, 120V-277V
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)
- Low voltage luminaire option, see page 9

FIXTURE HEIGHT

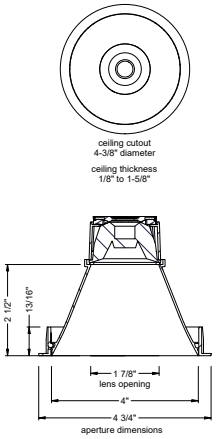
LED LIGHT ENGINE: 10LM - 25LM



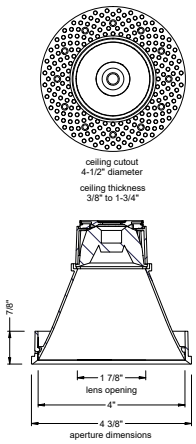
LED LIGHT ENGINE: 30LM



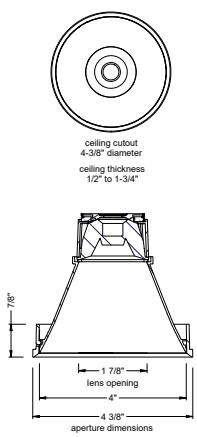
TRIMMED



TRIMLESS



MILLWORK



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

9°- 50° BEAM ORDERING CODE

SERIES	**NU4**	NU4
TYPE	**RDDR**	round downlight deep regress
	RDTDR	round downlight trimless deep regress
	RDTM-WDR	round downlight trimless millwork deep regress
LED	**SW**	standard white
DELIVERED LUMENS	**10LM**	970 lm
	15LM	1500 lm
	20LM	1990 lm
	25LM	2450 lm
	30LM	2990 lm
	Standard Configuration: 3000K 80CRI 30D NL **Calculated Delivered Lumens** = [Delivered Lumen Value] x [CCT Multiplier] x [Optic Multiplier] x [Lens Multiplier]	
CCT	**27K**	2700K
	30K	3000K
	35K	3500K
	40K	4000K

CCT	2700K		3000K		3500K		4000K	
CCT MULTIPLIER FOR LUMEN OUTPUT	80+	90+	80+	90+	80+	90+	80+	90+
EML RATIO	0.96	0.96	1	1	1.03	1.03	1.06	1.06

CRI	**80**	80 CRI	
	90	90 CRI	
OPTIC & LM MULTIPLIER SEE PAGE 3	**9D**[1]	9.9 degrees	(1.30)
	15D[2]	15 degrees	(1.07)
	20D	20 degrees	(0.99)
	25D	25 degrees	(0.98)
	30D	30 degrees	(1.00)
	50D	50 degrees	(0.96)
RECESSED LENS SEE PAGE 3	**NL**[3]	no lens	(1.00)
	DL	diffused lens	(0.90)
	HET	high efficiency textured lens, similar to Solite™	(0.94)
	SBL	smoothing beam lens	(0.95)
	HCL	honeycomb louver	(0.83)
TRIM COLOR SEE PAGE 3	**BK**	black	
	WH	white	
	MC	matte chrome	
	BZ	bronze	
	Not applicable to trimless option. Do not include in trimless ordering code.		
BEZEL COLOR SEE PAGE 3	**BK**	black	(0.90)
	WH	white	(1.00)
	MC	matte chrome	(0.96)
	CU	copper, vacuum metalized	(0.97)
	DC	dark chrome, vacuum metalized	(0.95)
	GN	gun metal, vacuum metalized	(0.99)
	AU	gold, vacuum metalized	(0.98)
	SA	specular, vacuum metalized	(1.00)

9°- 50° BEAM ORDERING CODE

MOUNTING OPTIONS SEE PAGE 6, 7	**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%
	DMXZ	DMX dim to zero
	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[7]	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.
ELECTRICAL OPTIONS	**EM7**	remote emergency battery, 90 min at 7W
	EM12	remote emergency battery, 90 min at 12W
	EM10CA20	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:

NU4 - RDDR - SW - 10LM - 35K - 90 - 30D - SBL - WH - BK - NC - UNV - DIM10 - EM7

NOTES

1. 9D available in 10LM with NL/SBL lens options.
2. 15D available in 10LM/15LM.
3. NL option does not meet requirement for AT/DF/WET/NSF listings.
4. IC/ICAT/CP not available in 9D/10LM or 30LM
5. Must select ND dimming code, for remote driver or POE specifications see page 9
6. LUTP not available in 15D/20LM or 25LM/30LM
7. ELV1 (120V) not available in 10LM with 20D/25D/35D/50D optics.

* EldoLED 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



BK WH MC CU DC GN AU SA

OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- Calculations based on 15LM fixtures, SA bezel, unless otherwise noted

HCL
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
15D	13.4	≤5
20D	18.4	≤5
25D	23.3	≤5
30D	29.5	≤5
50D	47	11.5

NL
No Lens



OPTIC	BEAM ANGLE	UGR
9D*	9.9	≤5
15D	13.6	≤5
20D	18.7	≤5
25D	24.7	≤5
30D	31.8	≤5
50D	50.8	13.9

*UGR Calculation based on 10LM for 9D.

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
15D	35.4	10.1
30D	39.6	13.9
30D**	44.7	16.5
50D**	55	18.9

**WH (White Bezel)

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
15D	19	≤5
20D	23	≤5
25D	27.8	7
30D	32.2	8.2
50D	46.6	14.3

SBL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
15D	14.2	≤5
20D	19.2	≤5
25D	25.2	≤5
30D	31.5	≤5
50D	50.4	13.7

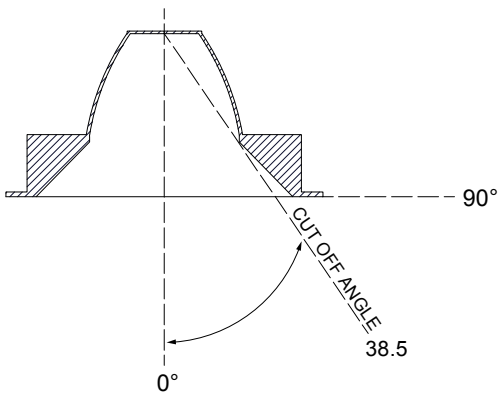
GLARE CONTROL

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 is 38.5 degrees;



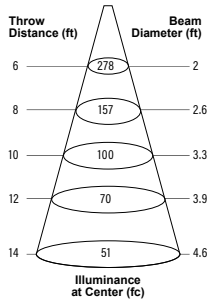
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

15LM CCT MULTIPLIERS	
	90CRI
2700K	0.96
3000K	1
3500K	1.01
4000K	1.02
FC Formula = CBCP / Distance	

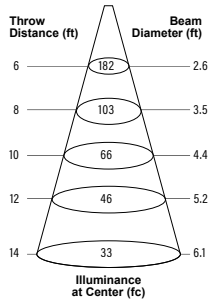
20D 19° WITH NO LENS, SA BEZEL



WATTS: 13.9	LPW: 107.2
LUMENS: 1490	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	10018
5	8169
15	2255
25	373
35	16
45	1

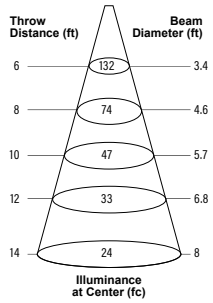
25D 25° WITH NO LENS, SA BEZEL



WATTS: 13.9	LPW: 105.8
LUMENS: 1471	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	6562
5	5756
15	2442
25	546
35	40
45	2

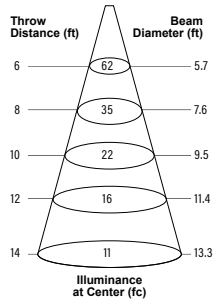
30D 32° WITH NO LENS, SA BEZEL



WATTS: 13.9	LPW: 108.2
LUMENS: 1504	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	4745
5	4378
15	2567
25	761
35	58
45	5

50D 51° WITH NO LENS, SA BEZEL

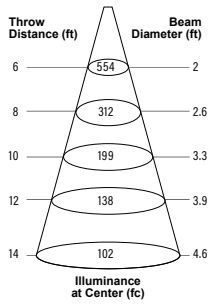


WATTS: 13.9	LPW: 103.1
LUMENS: 1433	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	2235
5	2152
15	1839
25	1153
35	290
45	10

30LM CCT MULTIPLIERS	
	90CRI
2700K	0.96
3000K	1
3500K	1.01
4000K	1.02
FC Formula = CBCP / Distance	

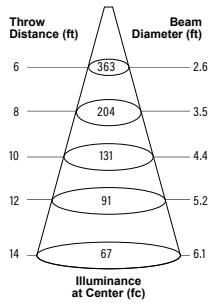
20D 19° WITH NO LENS, SA BEZEL



WATTS: 33.8	LPW: 87.8
LUMENS: 2967	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	19942
5	16261
15	4489
25	743
35	32
45	2

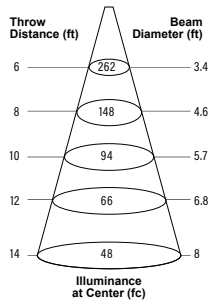
25D 25° WITH NO LENS, SA BEZEL



WATTS: 33.8	LPW: 86.6
LUMENS: 2927	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	13062
5	11458
15	4861
25	1088
35	81
45	5

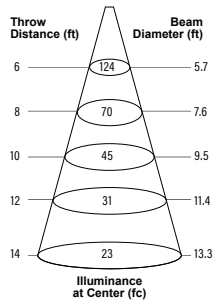
30D 32° WITH NO LENS, SA BEZEL



WATTS: 33.8	LPW: 88.6
LUMENS: 2994	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	9446
5	8714
15	5109
25	1515
35	115
45	9

50D 51° WITH NO LENS, SA BEZEL



WATTS: 33.8	LPW: 84.4
LUMENS: 2853	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	4450
5	4284
15	3661
25	2294
35	576
45	19

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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.

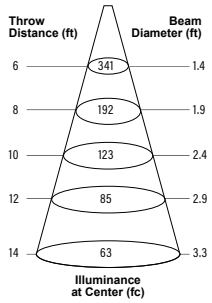
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA (CONTINUED)

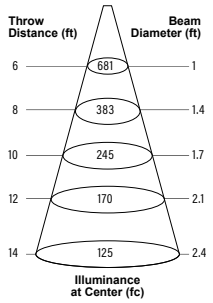
10LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance		

15D
14° WITH NO LENS, SA BEZEL



WATTS: 11.5	LPW: 87.2
LUMENS: 1003	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	12271
5	8345
15	1090
25	97
35	6
45	1

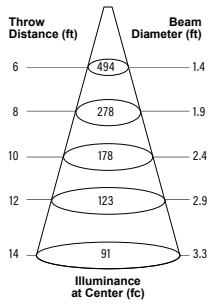
9D
9.9° WITH NO LENS, SA BEZEL



WATTS: 17.1	LPW: 60.6
LUMENS: 1037	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	24518
5	12120
15	498
25	96
35	18
45	5

15LM 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		

15D
14° WITH NO LENS, SA BEZEL



WATTS: 19	LPW: 76.5
LUMENS: 1453	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	17781
5	12092
15	1580
25	141
35	9
45	1

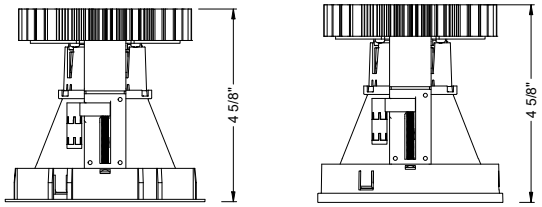
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PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

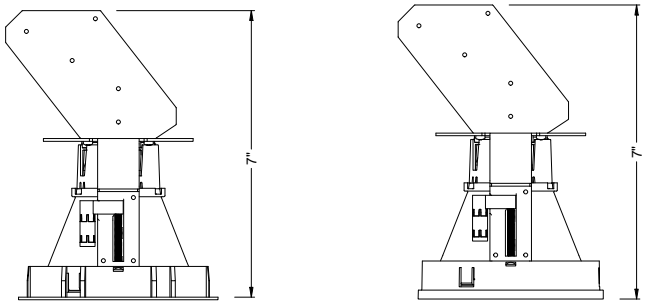
FIXTURE HEIGHT

LED LIGHT ENGINE: 10LM - 25LM



TRIMMED | TRIMLESS & MILLWORK

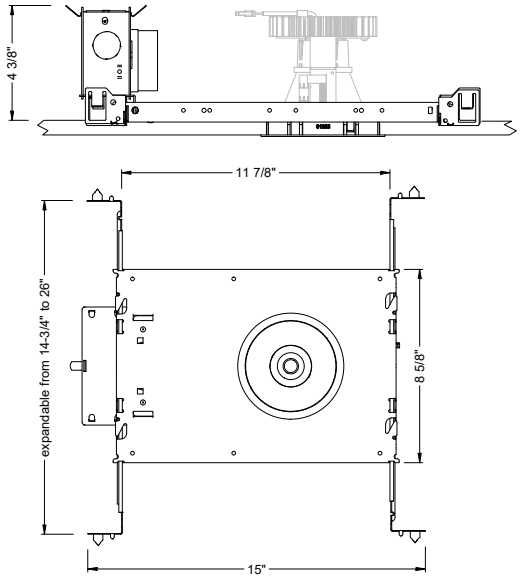
LED LIGHT ENGINE: 30LM



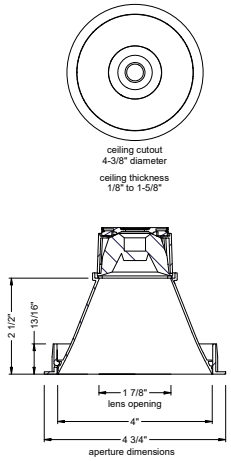
TRIMMED | TRIMLESS & MILLWORK

NC - NEW CONSTRUCTION

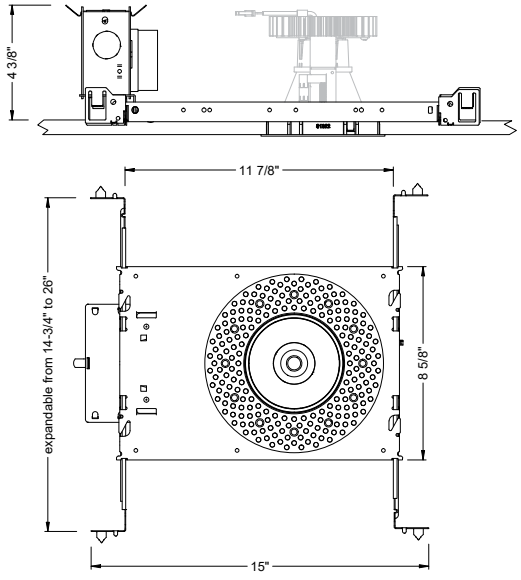
TRIM



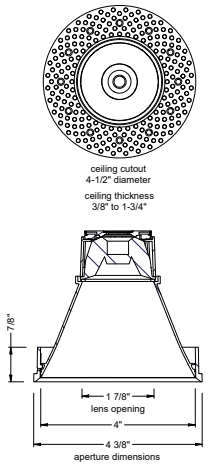
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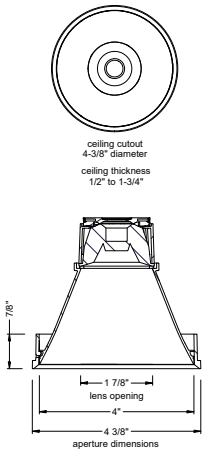
TRIMLESS



TRIMLESS



TRIMLESS/MILLWORK



100869

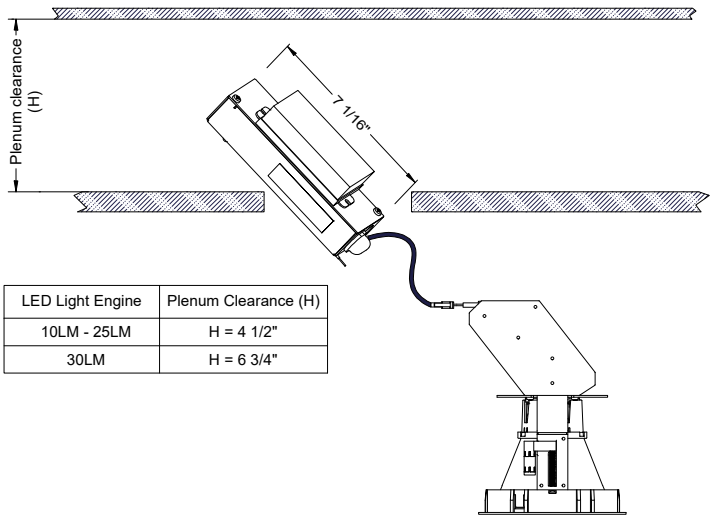
In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

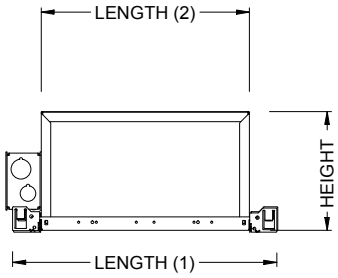
MOUNTING OPTIONS (CONTINUED)

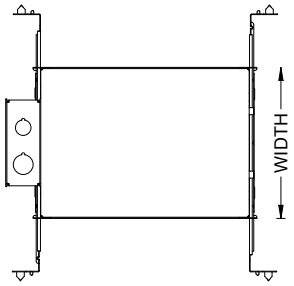
RET - RETRO
TRIM/TRIMLESS



LED Light Engine	Plenum Clearance (H)
10LM - 25LM	H = 4 1/2"
30LM	H = 6 3/4"

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"

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
TRIM	1/8" to 1-5/8"
TRIMLESS	3/8" to 1-3/4"
MILLWORK (TRIMLESS)	1/2" to 1-3/4"

BOX TYPE / LUMEN OUTPUT - NARROW BEAM (9°)					
LUMEN OUTPUT	BOX - A			BOX - B	BOX -C
	CP	IC	ICAT	IC	ICAT
10LM					

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

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (20° - 50°)					
LUMEN OUTPUT	BOX - A			BOX - B	BOX -C
	CP	IC	ICAT	IC	ICAT
10LM	✔	✔	✔		
15LM	✔	✔	✔		
20LM	✔	✔	✔		
25LM	✔	✔	✔		
30LM					

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.

REMOTE TEST SWITCH

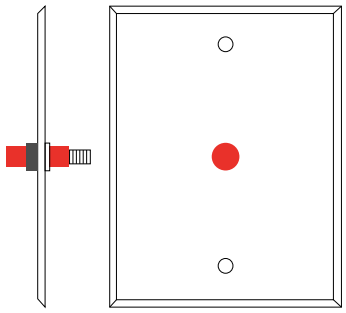
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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

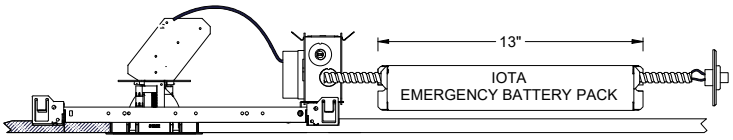
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



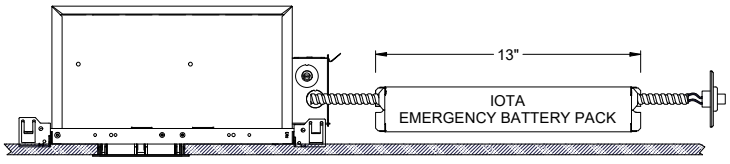
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 30LM)	880LM	1150LM	1280LM
Notes: Based on 30K, 80CRI			

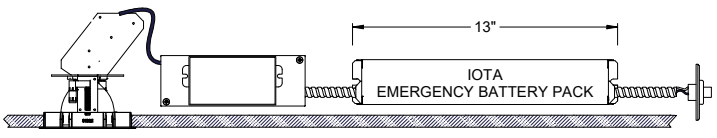
NC - NEW CONSTRUCTION
WITH EM BATTERY (REMOTE TEST SWITCH)



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

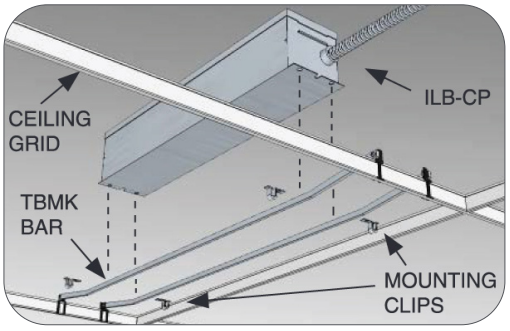


RET - RETROFIT
WITH EM BATTERY (REMOTE TEST SWITCH)



Accessory

76066 Optional T-Grid Mounting Kit[2]



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

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alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

LOW VOLTAGE OPTIONS

20° - 50° BEAM (Note: Specifications are subject to change without notice)			
9mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	970LM @30K/90CRI	200mA	7.5W
15LM	1500LM @30K/90CRI	325mA	12W
20LM	1990LM @30K/90CRI	450mA	16.5W
25LM	2450LM @30K/90CRI	575mA	21W
30LM	2990LM @30K/90CRI	750mA	27W
Notes	Delivered lumens based on 30D optic with no lens, (see page 2)		

15° 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	1450LM @30K/80CRI	400mA	14.5W
10LM	850LM @30K/90CRI	250mA	9W
15LM	1230LM @30K/90CRI	400mA	14.5W
Notes	Delivered lumens based on 15D optic with no lens (see page 2)		

9.5° BEAM (Note: Specifications are subject to change without notice)			
4.5mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	1000LM @30K/80CRI	350mA	12.5W
10LM	850LM @30K/90CRI	350mA	12.5W
Notes	Delivered lumens based on 9D optic with no lens (see page 2)		

NOMINAL LED VOLTAGE: 36VDC

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

