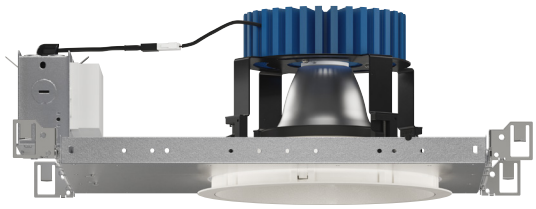
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU8

8" Round Downlight Warm Dim

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





Trim

12° - 80° BEAM (Note: Specifications are subject to change without notice)		
18mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	**NOMINAL DELIVERED LUMENS**	**SYSTEM WATTAGE**
10LM	920LM @30K/97CRI	10W
15LM	1490LM @30K/97CRI	16W
20LM	2050LM @30K/97CRI	22W
25LM	2560LM @30K/97CRI	29W
Notes	Delivered lumens based on 35D optic with SBL lens, (see page 2)	

FEATURES

- Thermally optimized for longevity
- 2" bezel regress with 1/16" micro flange
- 12° to 75° optical beam control
- UGR < 20
- 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 Hi-lume 1% 3-wire/Ecosystem
- Leading & trailing edge (Triac/ELV) dimming to 1%

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

- LUMINUS Dim-to-warm COB: 97 CRI: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L_{70} > 54,000 hrs

LISTING

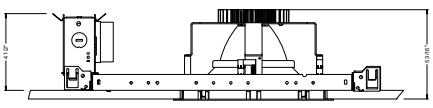
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- 5 Year Limited warranty

ELECTRICAL

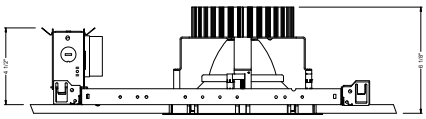
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote and Integral (ITS) emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)
- Low Voltage Luminaire option, see page 8.

FIXTURE HEIGHT

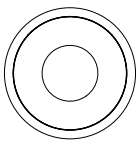
10LM-20LM LOW LUMEN



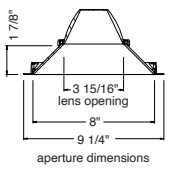
25LM HIGH LUMEN



TRIMMED (STANDARD)



ceiling cutout
8-1/2" diameter
ceiling thickness
1/8" to 2"



aperture dimensions

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU8**	NU8	
TYPE	**RD**	round downlight	
LED	**WD**	warm dim (Luminus)	
DELIVERED LUMENS	**10LM**	920 lm	
	15LM	1490 lm	
	20LM	2050 lm	
	25LM	2560 lm	
	Standard Configuration: 3000K 97CRI 35D **Calculated Delivered Lumens** = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]		
CCT	**3018**[1]	3000K, dim to 1800K	

CCT at Light Level (%LF)

%LF	30LM	20LM	15LM	10LM
100%	3000	3000	3000	3000
50%	3000	3000	3000	2800
25%	2800	2800	2500	2300
10%	2200	2200	2000	1900
5%	1800	1800	1800	1800

CRI	**97**	97 CRI	
OPTIC & LM MULTIPLIER SEE PAGE 3	**12D**	12 degrees	(1.00)
	20D	20 degrees	(1.00)
	35D	35 degrees	(1.00)
	50D	50 degrees	(1.00)
	65D	65° reflector with diffused lens	(0.99)
	80D	80 degrees	(0.94)
ACCESSORY	**HCL**[2]	honeycomb louver	(0.75)
	Attached to bezel		
BEZEL LENS SEE PAGE 3	**NL**[3]	no lens	(1.05)
	CL	clear lens	(1.01)
	E	elliptical beam spread	(0.96)
	DL	diffused lens	(0.98)
	HET	high efficiency textured lens, similar to Solite™	(0.99)
	SBL	smoothing beam lens	(1.00)
TRIM COLOR SEE PAGE 3	**BK**	black	
	WH	white	
	MC	matte chrome	
	BZ	bronze	
	WT	wheat	
	CC[4]	custom color, consult factory for details	
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.		
BEZEL COLOR SEE PAGE 3	**BK**	black	(0.98)
	WH	white	(1.00)
	BZ	bronze	(0.98)
	MC	matte chrome	(0.99)
	WT	wheat	(0.99)
	CC[4]	custom color, consult factory for details	
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.		

ORDERING CODE

MOUNTING OPTIONS SEE PAGE 6, 7	**NC**	new construction with ceiling fitting plate
	RET	retrofit, no ceiling fitting plate
VOLTAGE	**120**	120V
	UNV	120V-277V
	LVL[5]	low voltage luminaire
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%
	DMXZ	DMX dim to zero
	DMX-RJ45	DMX control dimming to 0.1% with RJ45 connection
	DMX-WL	DMX control dimming to 0.1% with wire lead connection
	DMX-XLR	DMX control dimming to 0.1% with XLR 5pin connection
	LUT	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
	LUTP	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELV1[6]	leading & trailing edge (Triac/ELV) dimming to 1%
	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**[7]	emergency battery backup, 90 minutes at 7W to LED
	EM12[7]	emergency battery backup, 90 minutes at 12W to LED
	EM10CA20[7]	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:

NU8 - RD - WD - 10LM - 3018 - 97 - 20D - SBL - WH - WH - NC - 120 - DIM10 - EM7

NOTES

1. Values shown are for reference only. Actual CCT may vary.
2. HCL not available with lens. Multiplier: Delivered Lumens (0.78) / Beam Spread (0.80).
3. NL option does not meet requirement for AT/DF/WET/NSF listings.
4. Custom set up fee plus minimum quantity required per color.
5. Must select ND dimming code, for remote driver or POE specifications see page 9.
6. Triac/ELV dimming available in 120V only.
7. For integrated test switch add "ITS" after emergency backup code, i.e. EM12ITS. Test switch is mounted in the bezel of the fixture.

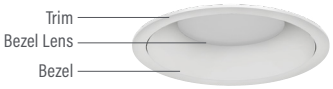
* EldoLED and DMX uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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
12D	12	8
20D	21	8.6
35D	33	8.8
50D	44	10.8
65D	57	12.4
80D	70	13.6

NL
No Lens



OPTIC	BEAM ANGLE	UGR
12D	12	11.2
20D	22	11.3
35D	36	11.5
50D	49	13.1
65D	64	14.5
80D	80	18.4

CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
12D	12	11
20D	22	11.2
35D	35	11.4
50D	50	13.2
65D	66	14.5
80D	80	18.4

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
12D	34	14.2
20D	39	14.6
35D	47	15.4
50D	58	16.7
65D	68	17.6
80D	86	19.5

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
12D	18	11.4
20D	25	11.6
35D	36	12.1
50D	51	14
65D	64	15.2
80D	80	18.6

SBL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
12D	13	10.9
20D	22	11.2
35D	36	11.6
50D	50	13.4
65D	66	14.7
80D	80	18.4

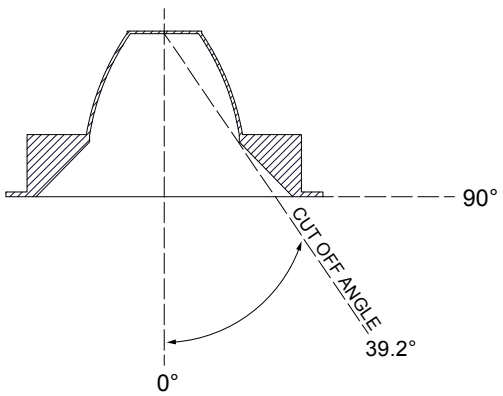
GLARE CONTROL

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 39.2° degrees;



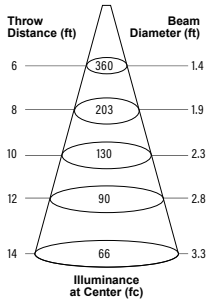
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

15LM

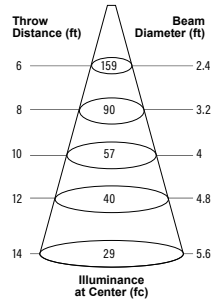
12D 13° WITH SBL LENS



WATTS: 16.1	LPW: 91.1
LUMENS: 1466	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	12960
5	8765
15	958
25	500
35	369
45	62

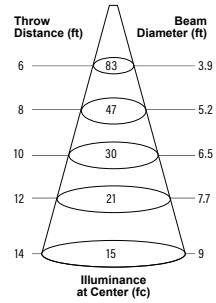
20D 22° WITH SBL LENS



WATTS: 16.1	LPW: 91.9
LUMENS: 1480	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	5733
5	5043
15	1678
25	560
35	388
45	67

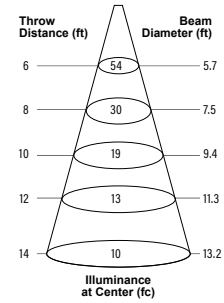
35D 36° WITH SBL LENS



WATTS: 16.1	LPW: 91.8
LUMENS: 1478	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	2979
5	2933
15	1923
25	760
35	406
45	69

50D 51° WITH SBL LENS

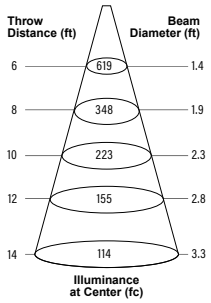


WATTS: 16.1	LPW: 92.1
LUMENS: 1483	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1926
5	1921
15	1580
25	976
35	515
45	96

25LM

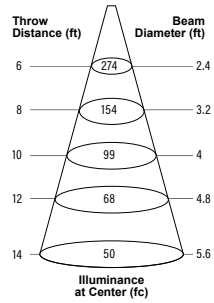
12D 13° WITH SBL LENS



WATTS: 28.6	LPW: 88.1
LUMENS: 2521	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	22285
5	15071
15	1647
25	860
35	635
45	107

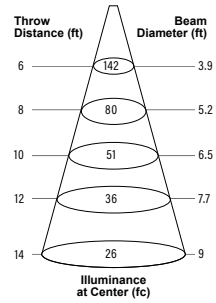
20D 22° WITH SBL LENS



WATTS: 28.6	LPW: 89
LUMENS: 2545	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	9858
5	8671
15	2886
25	962
35	667
45	116

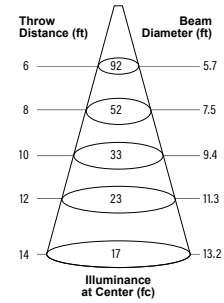
35D 36° WITH SBL LENS



WATTS: 28.6	LPW: 88.8
LUMENS: 2541	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	5123
5	5043
15	3307
25	1307
35	698
45	119

50D 51° WITH SBL LENS



WATTS: 28.6	LPW: 89.2
LUMENS: 2551	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	3312
5	3303
15	2716
25	1678
35	885
45	165

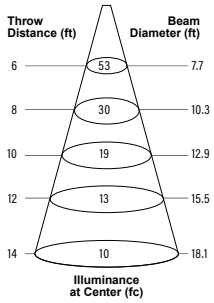
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PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

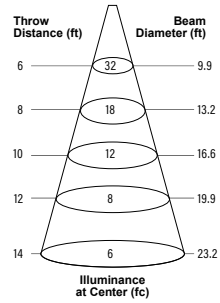
15LM

65D
66° WITH SBL LENS



WATTS: 16.1	LPW: 92.5
LUMENS: 1490	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1884
5	1887
15	1810
25	1393
35	796
45	184

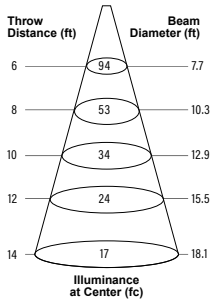
80D
80° WITH SBL LENS



WATTS: 16.1	LPW: 86.2
LUMENS: 1387	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1154
5	1148
15	1104
25	1018
35	808
45	360

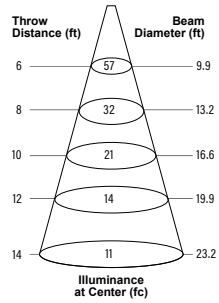
25LM

65D
66° WITH SBL LENS



WATTS: 28.6	LPW: 89.6
LUMENS: 2562	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	3367
5	3372
15	3235
25	2489
35	1422
45	329

80D
80° WITH SBL LENS



WATTS: 28.6	LPW: 83.4
LUMENS: 2385	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2061
5	2052
15	1973
25	1820
35	1443
45	642

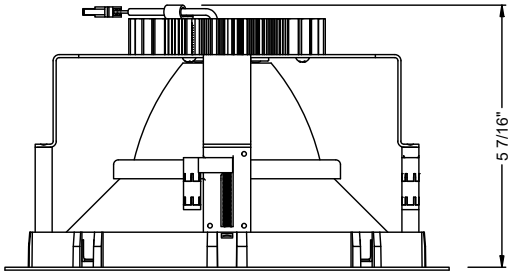
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

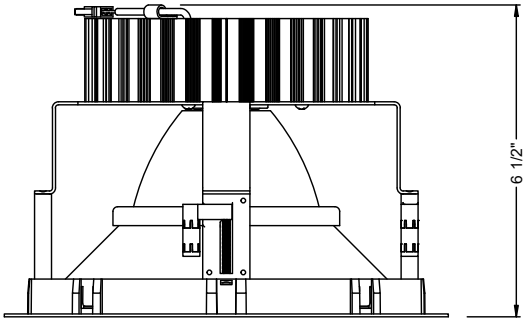
FIXTURE HEIGHT

10LM-20LM LOW LUMEN



TRIMMED

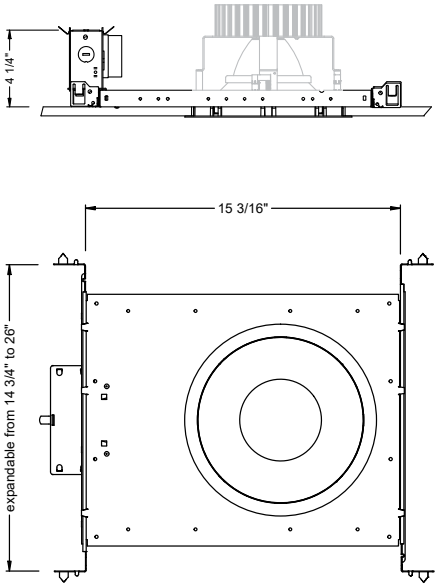
25LM HIGH LUMEN



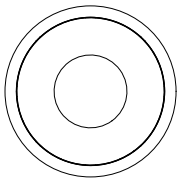
TRIMMED

NC - NEW CONSTRUCTION

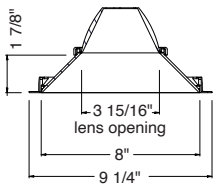
TRIM



TRIMMED (STANDARD)



ceiling cutout
8-1/2" diameter
ceiling thickness
1/8" to 2"



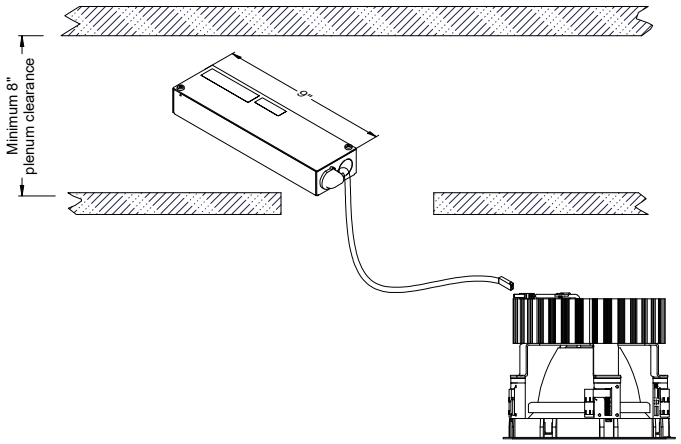
aperture dimensions

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS (CONTINUED)

RET - RETRO
TRIM/TRIMLESS



RATINGS / CERTIFICATIONS	NC	RET
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, RET
	STANDARD CEILING THICKNESS
TRIM	1/8" to 2"

alphabet

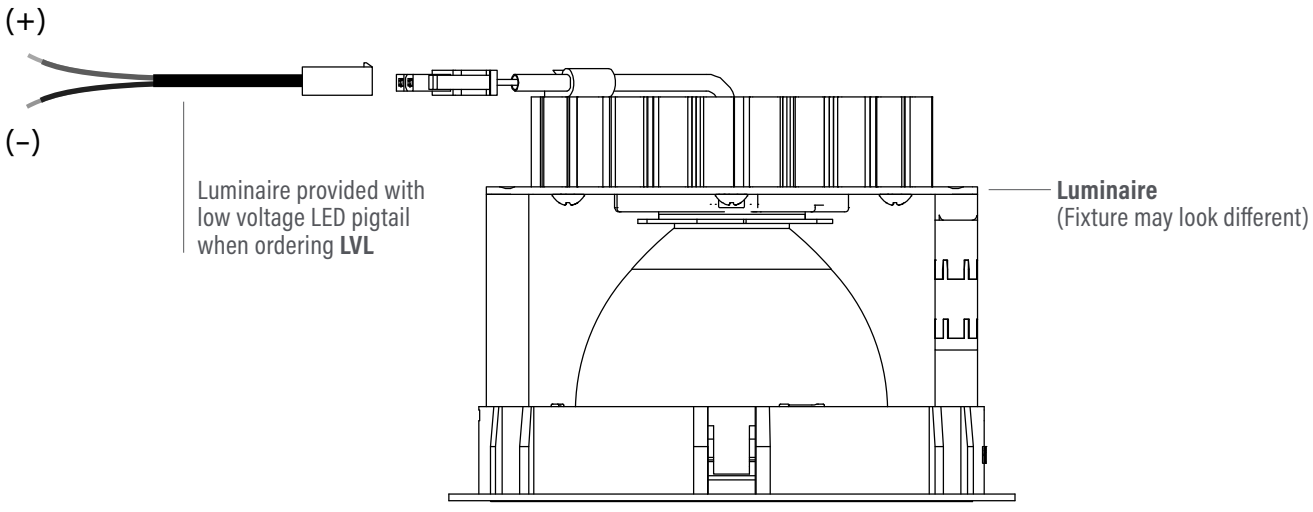
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

LOW VOLTAGE OPTIONS

12° - 80° BEAM (Note: Specifications are subject to change without notice)			
18mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	**NOMINAL DELIVERED LUMENS**	**DRIVE CURRENT**	**LED WATTAGE**
10LM	920LM @30K/97CRI	250mA	9W
15LM	1490LM @30K/97CRI	400mA	15W
20LM	2050LM @30K/97CRI	550mA	20W
25LM	2560LM @30K/97CRI	700mA	26W
Notes	Delivered lumens based on 35D optic with SBL lens, (see page 2)		

NOMINAL LED VOLTAGE: 36VDC

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



alphabet

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

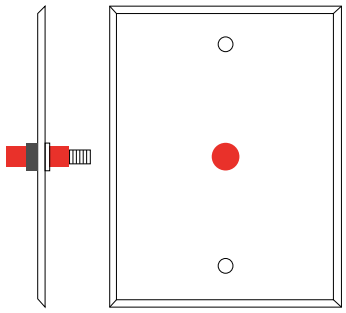
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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

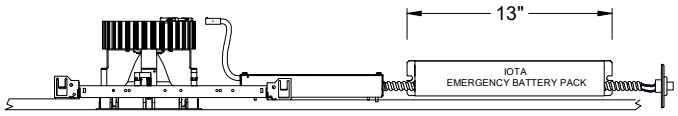
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



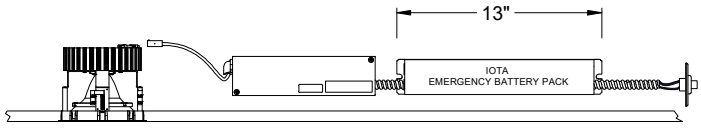
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (30LM TO 1000LM)	715LM	1022LM	1226LM
Notes: Based on 30K, 97CRI			

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

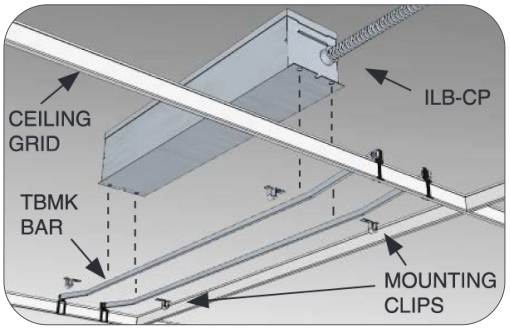


RET - RETROFIT
WITH EM BATTERY (REMOTE TEST SWITCH)



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.

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.