

PROJECT INFORMATION		
JOB NAME	TYPE	
ORDERING CODE		

NU3

3" Square Downlight Standard White

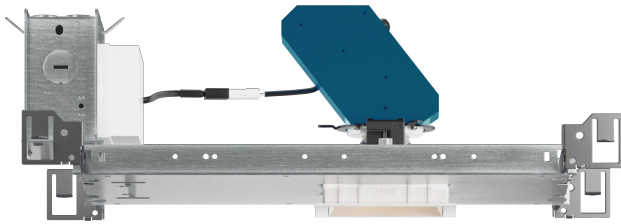


AT
airtight

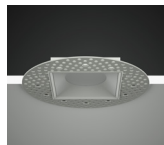
DF
dead-front

PR
plenum rated

wet rated



Trim



Trimless



Trimless Millwork

60° - 80° BEAM		
(Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	855LM @30K/80CRI	9W
15LM	1200LM @30K/80CRI	12W
20LM	1600LM @30K/80CRI	16W
25LM	2060LM @30K/80CRI	20W
30LM	2450LM @30K/80CRI	24W
35LM	2850LM @30K/80CRI	28W
40LM	3190LM @30K/80CRI	32W
10LM	720LM @30K/90CRI	9W
15LM	1010LM @30K/90CRI	12W
20LM	1350LM @30K/90CRI	16W
25LM	1740LM @30K/90CRI	20W
30LM	2070LM @30K/90CRI	24W
35LM	2410LM @30K/90CRI	28W
40LM	2700LM @30K/90CRI	32W
Notes	Delivered lumens based on WH80 optic with no lens, (see page 2)	

eldoLED
your product | our drive



CASAMBI

FEATURES

- 3/4" bezel regress with 1/16" micro flange
- 60° - 80° optical beam control
- UGR <21
- Up to 103 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-lumen 2-Wire (Eco System) dimming to 0.1% and 1%
- Leading & trailing edge (Triac/ELV) dimming to 1%
- Casambi bluetooth 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 BLE 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

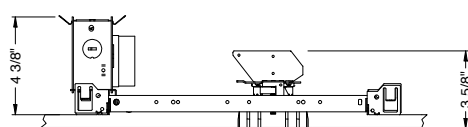
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- 5 Year Limited warranty

ELECTRICAL

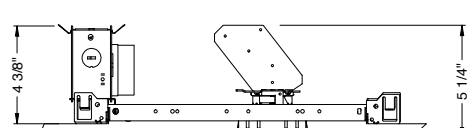
- 120V-277V, 120 only Triac / ELV
- Power factory ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)

FIXTURE HEIGHT

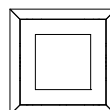
10LM - 30LM LOW LUMENS



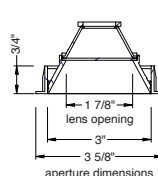
35LM - 40LM HIGH LUMENS



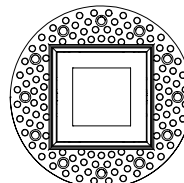
TRIMMED



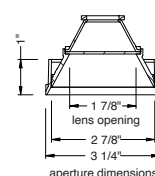
ceiling cutout
3-1/4" square
ceiling thickness
1/8" to 1-1/4"



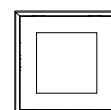
TRIMLESS



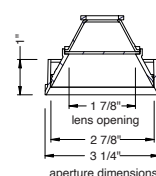
ceiling cutout
3-1/2" square
ceiling thickness
3/8" to 1-3/8"



MILLWORK



ceiling cutout
3-9/32" square
ceiling thickness
5/8" to 1-3/8"



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

60°- 80° BEAM ORDERING CODE												
SERIES	NU3	NU3										
TYPE	QD	square downlight										
	QDT	square downlight trimless										
	QDTMW	square downlight trimless millwork										
LED	SW	standard white										
DELIVERED LUMENS	10LM	855 lm										
	15LM	1200 lm										
	20LM	1600 lm										
	25LM	2060 lm										
	30LM	2450 lm										
	35LM	2850 lm										
	40LM	3190 lm										
	Standard Configuration: 3000K 80CRI WH80 Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]											
CCT	27K	2700K	CCT		2700K		3000K		3500K		4000K	
	30K	3000K	CRI		80+	90+	80+	90+	80+	90+	80+	90+
	35K	3500K	CCT MULTIPLIER FOR LUMEN OUTPUT		0.96	0.81	1.00	0.85	1.03	0.88	1.06	0.91
	40K	4000K										
CRI	80	80 CRI										
	90	90 CRI										
OPTIC & LM MULTIPLIER SEE PAGE 3	HE60	60° high efficiency diffused lens										(0.98)
	HE80	80° high efficiency diffused lens										(0.95)
	D70	70° diffused with clear lens										(0.97)
	WH80	80° brilliant white with clear lens										(1.00)
BEZEL LENS SEE PAGE 3	NL ^{1,2}	no lens										(1.00)
TRIM COLOR SEE PAGE 3	BK	black										
	WH	white										
	MC	matte chrome										
	BZ	bronze										
	WT	wheat										
	CC ³	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 SEE PAGE 3	BK	black										(0.98)
	WH	white										(1.00)
	MC	matte chrome										(0.99)
	BZ	bronze										(0.98)
	WT	wheat										(0.99)
	CC ³	custom color, consult factory for details										
Antimicrobial finish, add AM to black, white or matte chrome i.e. BKAM.												

60°- 80° BEAM ORDERING CODE		
MOUNTING OPTIONS SEE PAGE 5, 6	NC	new construction with ceiling fitting plate
	IC ⁴	insulation contact housing
	ICAT ⁴	insulation contact/airtight housing
	CP ⁴	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 dimming to 1%
	DALIZ	eldoLED flicker free DALI dimming to 0%
	DMXZ	DMX dim to zero
	LUTP ⁵	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELV1 ⁶	leading & trailing edge (Triac/ELV) dimming to 1%
	NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dimming to 0%
ELECTRICAL OPTIONS	CAS	Casambi Bluetooth control with flicker free 1% dimming
	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 - QD - SW - 20LM - 30K - 90 - HE60 - WH - WH - NC - UNV - DIM10 - EM7	

- NOTES**
- NL option available in D70/WH80.
 - NL option does not meet requirement for AT/DF/WET/NSF listings.
 - Custom set up fee plus minimum quantity required per color.
 - IC/ICAT/CP not available in 35LM/40LM.
 - LUTP not available in 25LM/30LM/35LM/40LM.
 - ELV1 (120V input) not available in 10LM.
- * EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

alphabet

PROJECT INFORMATION			
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TRIM OPTIONS

TRIM/BEZEL COLORS



WH



MC



BK



BZ



WT

OPTICAL OPTIONS

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



CL
Clear Lens

OPTIC	BEAM ANGLE	UGR
D70	65	20.9
WH80	73	23.8



DL
Diffused Lens

OPTIC	BEAM ANGLE	UGR
HE60	64	22.6
HE80	78	24.7

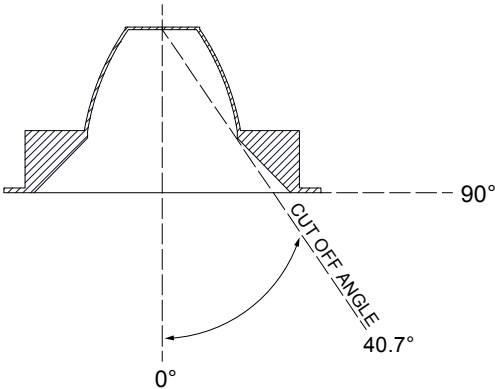
GLARE CONTROL

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 40.7° degrees;



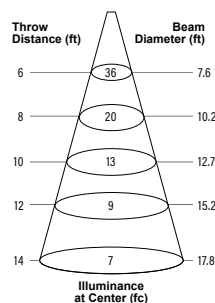
PROJECT INFORMATION			
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PHOTOMETRIC DATA

20LM CCT MULTIPLIERS

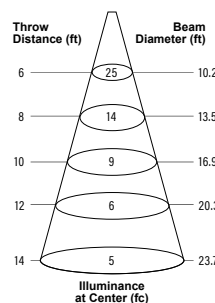
	80 CRI	90CRI
2700K	0.96	0.81
3000K	1	0.84
3500K	1.01	0.85
4000K	1.03	0.87
FC Formula = CBCP / Distance ²		

HE60 65° HIGH EFFICIENCY DIFFUSED LENS



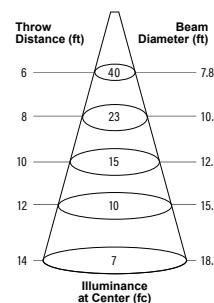
WATTS: 17	LPW: 88.2
LUMENS: 1500	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1289
5	1267
15	1109
25	862
35	557
45	220

HE80 80° HIGH EFFICIENCY DIFFUSED LENS



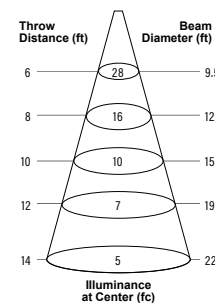
WATTS: 17	LPW: 88.1
LUMENS: 1498	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	889
5	883
15	837
25	745
35	583
45	313

D70 66° DIFFUSED WITH CLEAR LENS



WATTS: 17	LPW: 89.3
LUMENS: 1518	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1456
5	1434
15	1270
25	1004
35	597
45	121

WH80 77° BRILLIANT WHITE WITH CLEAR LENS

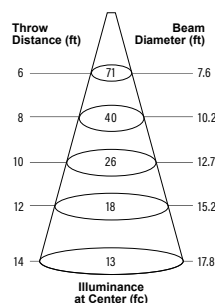


17 LPW:	94.2
1602 CCT:	3000K 3000K
INTENSITY	
DEGREE	CANDELA
0	1004
5	1000
15	967
25	896
35	692
45	249

40LM CCT MULTIPLIERS

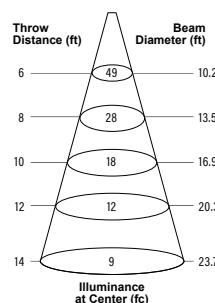
	80 CRI	90CRI
2700K	0.96	0.81
3000K	1	0.84
3500K	1.01	0.85
4000K	1.03	0.87
FC Formula = CBCP / Distance ²		

HE60 65° HIGH EFFICIENCY DIFFUSED LENS



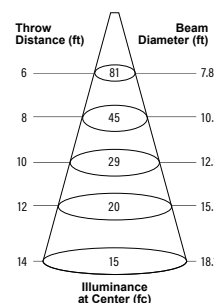
WATTS: 34	LPW: 88
LUMENS: 2991	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2569
5	2526
15	2211
25	1719
35	1111
45	438

HE80 80° HIGH EFFICIENCY DIFFUSED LENS



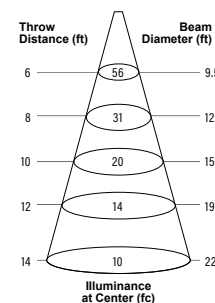
WATTS: 34	LPW: 87.8
LUMENS: 2986	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1773
5	1761
15	1670
25	1485
35	1162
45	624

D70 66° DIFFUSED WITH CLEAR LENS



WATTS: 34	LPW: 89
LUMENS: 3027	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2903
5	2859
15	2532
25	2002
35	1190
45	240

WH80 77° BRILLIANT WHITE WITH CLEAR LENS



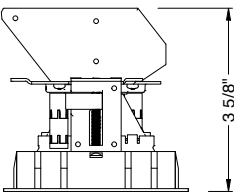
WATTS: 34	LPW: 93.9
LUMENS: 3194	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2002
5	1994
15	1928
25	1786
35	1379
45	497

PROJECT INFORMATION		
JOB NAME		TYPE
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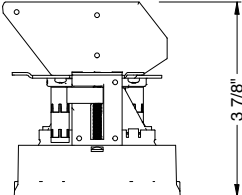
MOUNTING OPTIONS

FIXTURE HEIGHT

10LM - 30LM CONFIGURATION

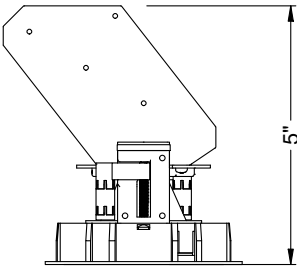


TRIMMED

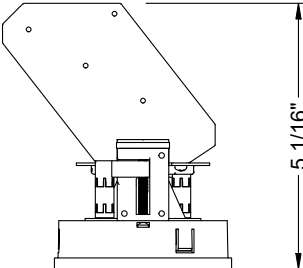


TRIMLESS & MILLWORK

35LM - 40LM CONFIGURATION



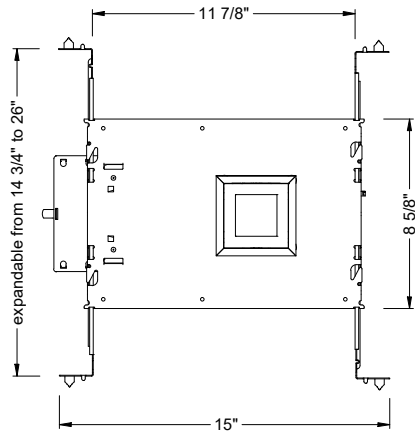
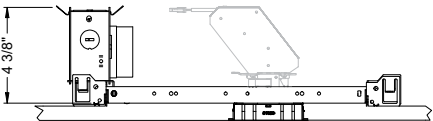
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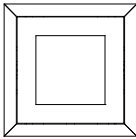
TRIMLESS & MILLWORK

NC - NEW CONSTRUCTION

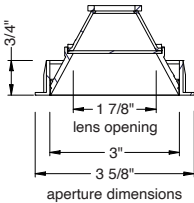
TRIM



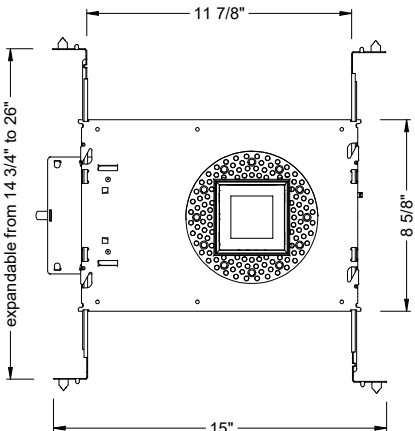
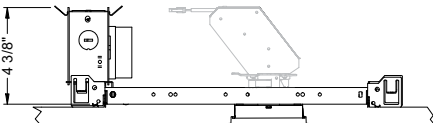
TRIM



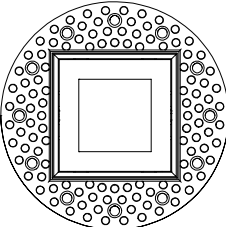
ceiling cutout
3-1/4" square
ceiling thickness
1/8" to 1-1/4"



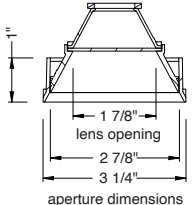
TRIMLESS



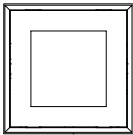
TRIMLESS



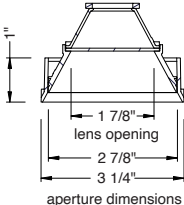
ceiling cutout
3-1/2" square
ceiling thickness
3/8" to 1-3/8"



TRIMLESS/MILLWORK



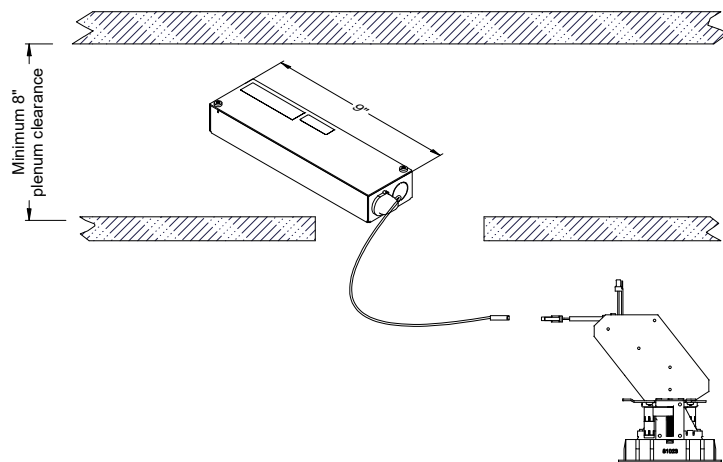
ceiling cutout
3-9/32" square
ceiling thickness
5/8" to 1-3/8"



PROJECT INFORMATION			
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MOUNTING OPTIONS (CONTINUED)

RET - RETRO TRIM/TRIMLESS



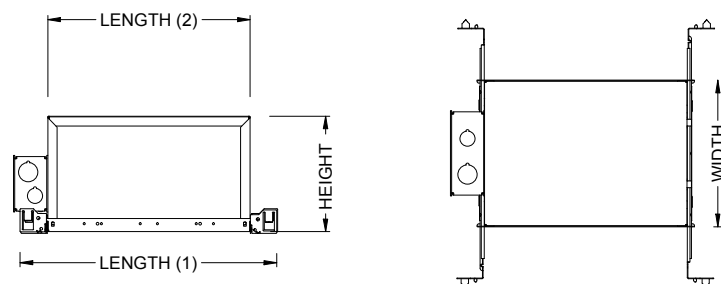
RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✓	✓			
TYPE IC			✓	✓	✓
CHICAGO PLENUM (CCEA)					✓
SUITABLE FOR AIR HANDLING PLENUMS				✓	✓
REDUCED AIRFLOW (WITH LENS) ASTM E283	✓	✓	✓	✓	✓

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

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						
LUMEN OUTPUT	BOX - A			BOX - B		
	IC	ICAT	CP	IC	ICAT	CP
10LM	✓	✓	✓			
15LM	✓	✓	✓			
20LM	✓	✓	✓			
25LM	✓	✓	✓			
30LM				✓	✓	✓
35LM				✓	✓	✓
40LM						

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

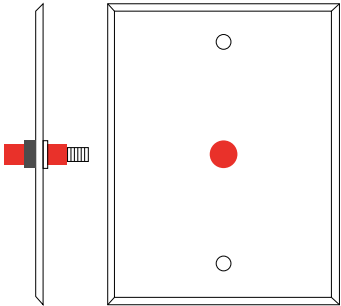
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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

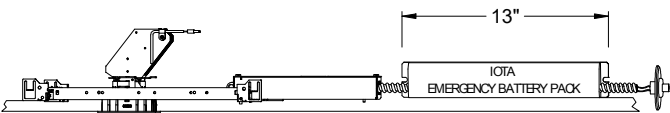
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



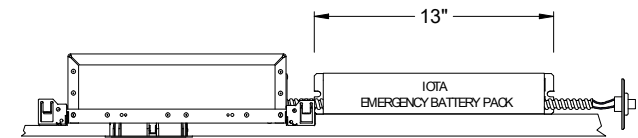
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 30LM)	600LM	855LM	1025LM
Notes: Based on 30K, 80CRI			

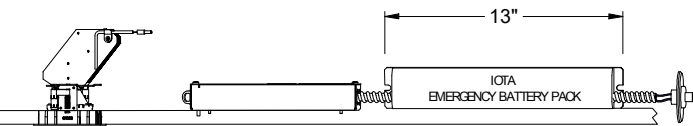
NC - NEW CONSTRUCTION
WITH EM BATTERY (REMOTE TEST SWITCH)



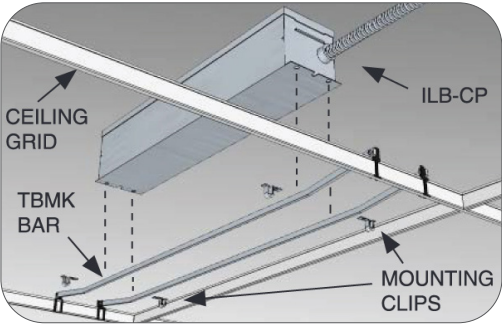
IC / ICAT / CP - INSULATION CONTACT HOUSING
WITH EM BATTERY (REMOTE TEST SWITCH)



RET - RETROFIT
WITH EM BATTERY (REMOTE TEST SWITCH)



Accessory
76066 Optional T-Grid Mounting Kit²



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