alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU3 LOPRO

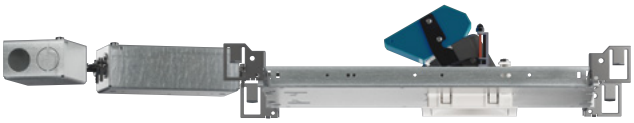
3" Square Adjustable Warm Dim

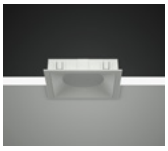
NSF · AT airtight · DF dead-front · PR plenum rated · wet rated

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	1450LM @30K/97CRI	27W
Notes	Delivered lumens based on 35D optic with no lens, (see page 2)	

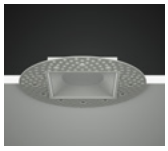
LUMINUS

15° - 35° BEAM (Note: Specifications are subject to change without notice)		
9mm DYNAMIC COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	780LM @30K/97CRI	13W
15LM	1020LM @30K/97CRI	19W
Notes	Delivered lumens based on 35D optic with no lens, (see page 2)	





Trim



Trimless



Trimless Millwork

FEATURES
- True 30° Tilt with <5% beam disruption (clipping)
- Zero ceiling line obstruction at Full Tilt
- Concentric Tilt Tracking ensures minimal light loss
- 3/4" bezel regress with 1/16" micro flange
- 15° - 35° optical beam control
- UGR <5
- Multiple mounting, glare control options, trims, and finishes available

DIMMING AND CONTROLS
- 0-10V dimming to 1%
- leading & trailing edge (Triac / ELV) dimming to 1%

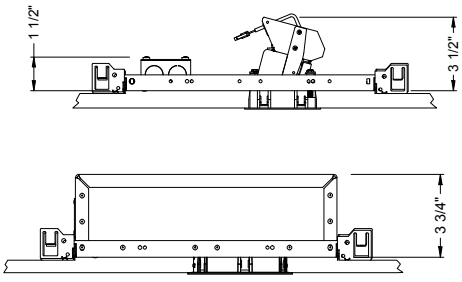
CONSTRUCTION
- Shatter proof acrylic bezel lens Lexan™ (PC)
- Optimal connectivity for wireless control signal
- Impact and chemical resistant at the highest level
- Withstands temperatures up to 240°F
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 0.2" to 1.50"

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

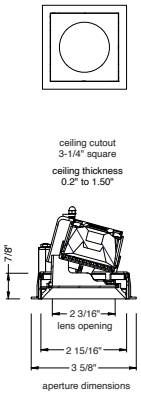
LISTING
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens
- **Declare.** - LBC Red List Approved
- 5 Year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

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

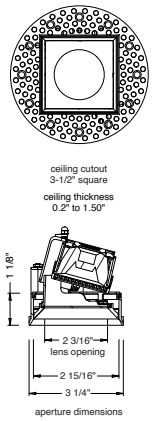
FIXTURE HEIGHT



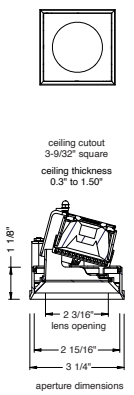
TRIMMED



TRIMLESS



MILLWORK



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

15°- 35° BEAM ORDERING CODE

SERIES	**NU3**	NU3	
TYPE	**QALP**	square adjustable, lopro	
	QATLP	square adjustable, trimless, lopro	
	QATMWLP	square adjustable, trimless millwork, lopro	
LED	**WD**	warm dim (Luminus)	
DELIVERED LUMENS	**10LM**	780 lm	
	15LM	1020 lm	
	20LM	1450 lm	
	Standard Configuration: 3000K 97CRI S40 **Calculated Delivered Lumens** = [Delivered Lumen Value] x [CCT Multiplier] 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	(0.81)
	25D	25 degrees	(0.90)
	30D	30 degrees	(0.92)
	35D	35 degrees	(1.00)
TIR OPTIC ACCESSORY SEE PAGE 3	**NA**	no accessory	(1.00)
	HCL	honeycomb louver	(0.80)
	HETA	high efficiency textured lens, similar to Solite™	(0.94)
	Attached to TIR optic, field replaceable		
BEZEL LENS SEE PAGE 3	**NL**[1]	no lens	(1.00)
	CL	clear lens	(0.97)
	DL	diffused lens	(0.93)
	HET	high efficiency textured lens, similar to Solite™	(0.95)
	SBL	smoothing beam lens	(0.97)
TRIM COLOR SEE PAGE 3	**BK**	black	
	WH	white	
	MC	matte chrome	
	BZ	bronze	
	WT	wheat	
	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)

15°- 35° BEAM ORDERING CODE

MOUNTING OPTIONS SEE PAGE 5, 6	**NC**	new construction with ceiling fitting plate
	IC[2]	insulation contact housing
	RET	retrofit, no ceiling fitting plate
VOLTAGE	**120**	120V
	UNV	120V-277V
DIMMING	**DIM10**	standard 0-10V dimming to 1%
	ELV1[3]	leading & trailing edge (Triac/ELV) dimming to 1%
ELECTRICAL OPTIONS	**EM7**	emergency battery backup, 90 minutes at 7W to LED
	EM12[4]	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:

NU3 - QALP- WD - 15LM - 3018 - 97 - 15D - WH - WH - NC - UNV - DIM10 - EM7

NOTES

1. NL option does not meet requirement for AT/DF/WET/NSF listing.
2. IC not available in 20LM.
3. ELV1 available in 120V.
4. EM12 not available in 10LM.

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

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			

TRIM OPTIONS

TRIM/BEZEL COLORS

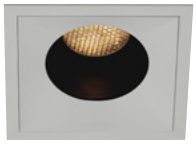


WH MC BK BZ WT

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.

TIR OPTIC ACCESSORY
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
15D	17	≤5
25D	23	≤5
35D	30	≤5

NL
No Lens



OPTIC	BEAM ANGLE	UGR
15D	18	≤5
25D	25	6.4
35D	32	5.8

CL
Clear Lens



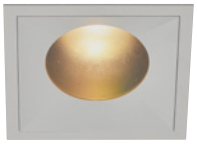
OPTIC	BEAM ANGLE	UGR
15D	18	≤5
25D	25	6.8
35D	32	5.9

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
15D	37	16.7
25D	41	18.3
35D	44	19

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
15D	22	9
25D	27	10.9
35D	33	11.6

SBL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
15D	18	≤5
25D	25	7.4
35D	32	7

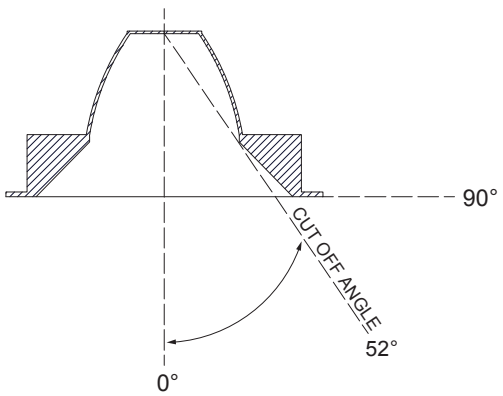
GLARE CONTROL

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 of NL and CL is 52 degrees;



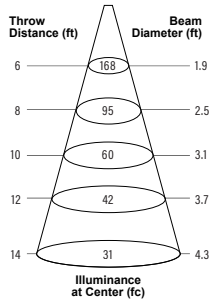
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

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^2		

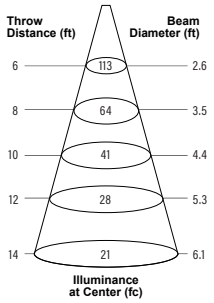
15D 18° NO LENS



WATTS: 19.1	LPW: 43
LUMENS: 822	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	6050
5	4781
15	1243
25	131
35	18
45	3

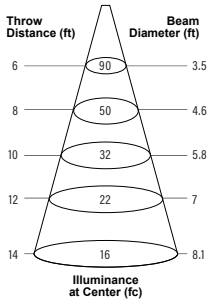
25D 25° NO LENS



WATTS: 19.1	LPW: 48
LUMENS: 917	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	4076
5	3608
15	1496
25	317
35	42
45	6

35D 32° NO LENS

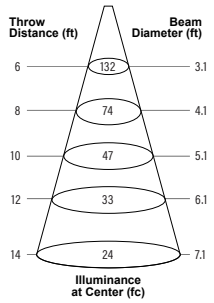


WATTS: 19.1	LPW: 53.2
LUMENS: 1016	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	3219
5	3065
15	1801
25	459
35	33
45	5

20LM 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^2		

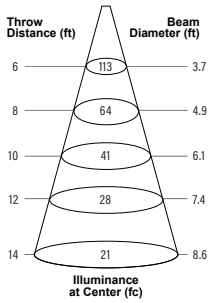
30D 29° NO LENS



WATTS: 25.7	LPW: 52
LUMENS: 1337	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	4744
5	4357
15	2205
25	569
35	85
45	15

35D 34° NO LENS



WATTS: 25.7	LPW: 56.6
LUMENS: 1454	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	4070
5	3878
15	2425
25	770
35	87
45	11

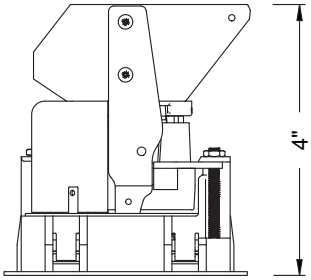
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

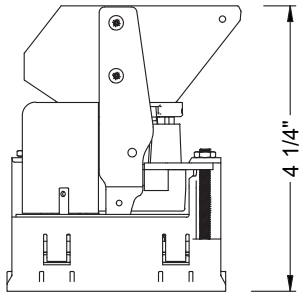
MOUNTING OPTIONS

FIXTURE HEIGHT

LED LIGHT ENGINE: 1000LM - 1500LM



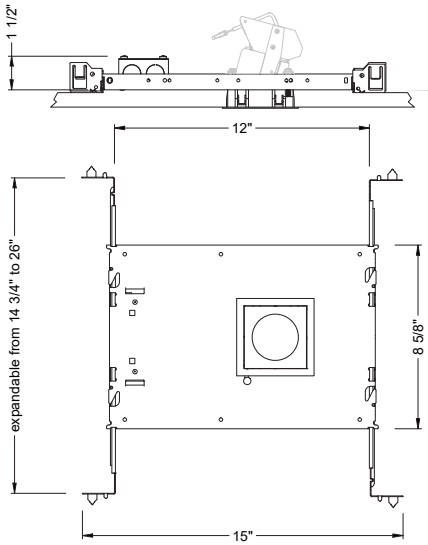
TRIMMED



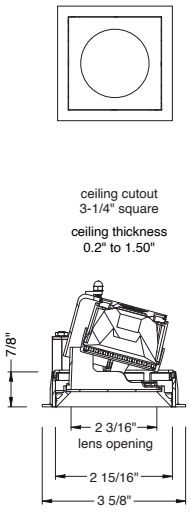
TRIMLESS & MILLWORK

NC - NEW CONSTRUCTION

TRIM

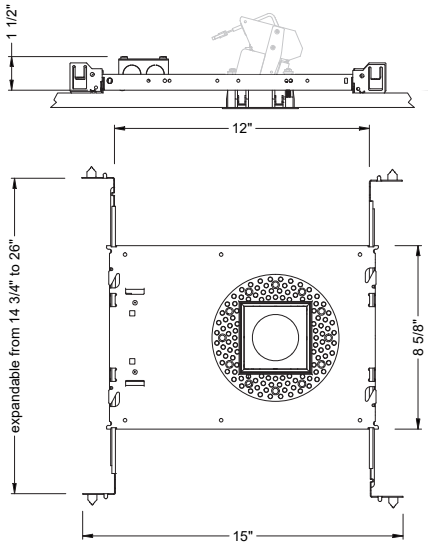


TRIM

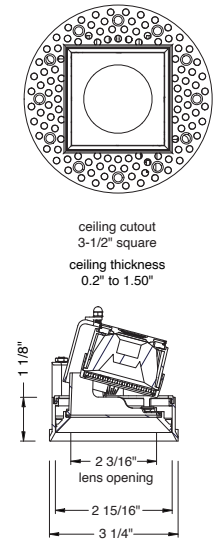


aperture dimensions

TRIMLESS

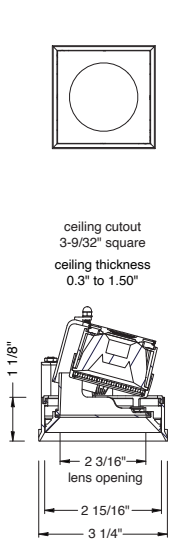


TRIMLESS



aperture dimensions

TRIMLESS/MILLWORK



aperture dimensions

101023

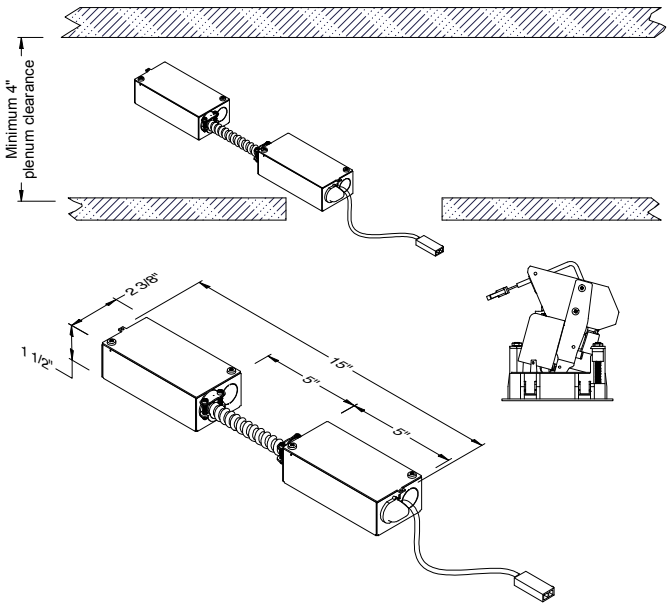
In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

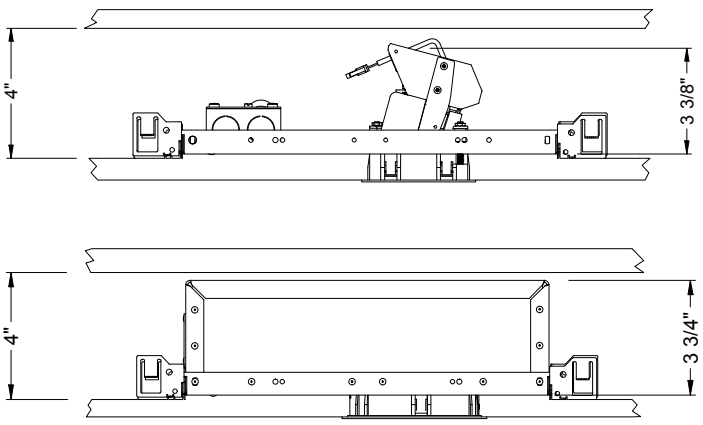
MOUNTING OPTIONS (CONTINUED)

RET - RETRO
TRIM/TRIMLESS

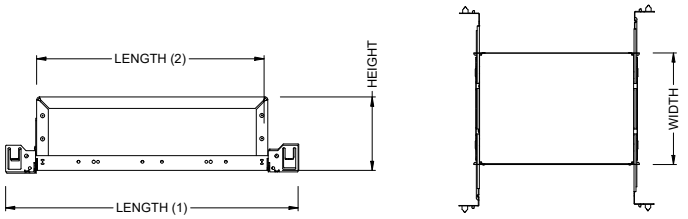


RATINGS / CERTIFICATIONS	NC	RET	IC
TYPE NON-IC	✔	✔	
TYPE IC			✔
CHICAGO PLENUM (CCEA)			
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔	✔	✔

CEILING THICKNESS		
FIXTURE TYPE	MOUNTING TYPE	
	NC, RET	IC
	STANDARD CEILING THICKNESS	
TRIM	0.2" to 1.5"	0.625" to 1.5"
TRIMLESS	0.2" to 1.5"	0.625" to 1.5"
MILLWORK (TRIMLESS)	0.3" to 1.5"	0.625" to 1.5"



IC - INSULATION CONTACT HOUSING



BOX SIZE	L 1	L 2	W	H
A	15 - 7/16"	11 - 3/4"	8 - 1/2"	3 - 3/4"

BOX TYPE / LUMEN OUTPUT 10LM -15LM BEAMS (15° - 35°)	
LUMEN OUTPUT	BOX - A
	IC
10LM	✔
15LM	✔
20LM	

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

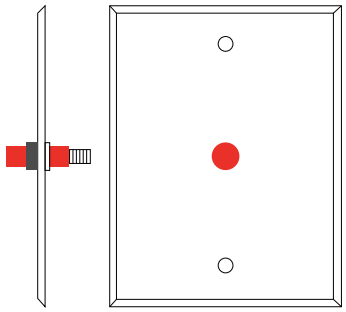
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS

Above ceiling access is 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

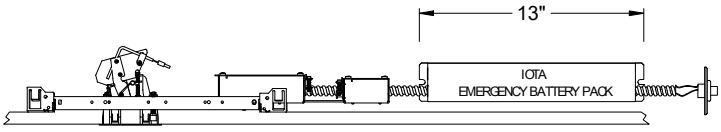
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



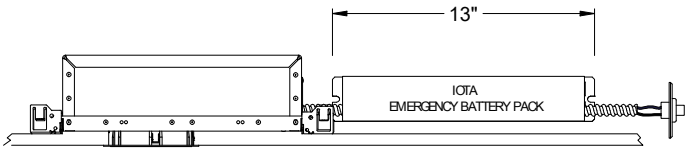
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 20LM)	550LM	780LM	940LM
Notes: Based on 30K, 97CRI			

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

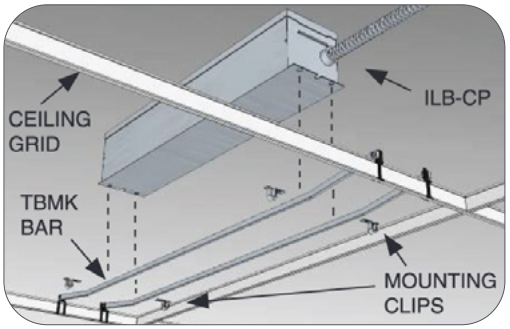


IC - INSULATION CONTACT HOUSING
WITH EM BATTERY (REMOTE TEST SWITCH)



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.