alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU4 LOPRO

4" Square Downlight Warm Dim

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

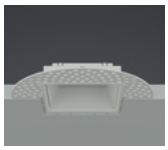
25° - 80° BEAM (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	800LM @30K/97CRI	13W
15LM	1200LM @30K/97CRI	19W
20LM	1600LM @30K/97CRI	27W
30LM	24000LM @ 30K/97CRI	40W
Notes	Delivered lumens based on D70 optic (see page 2)	

LUMINUS





Trim



Trimless



Trimless Millwork

FEATURES

- Thermally optimized for LED longevity
- 3/4" bezel regress with 1/16" micro flange
- Double jointed driver box allows for 4" shallow plenum installation
- 65° - 85° Optical beam control
- 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 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

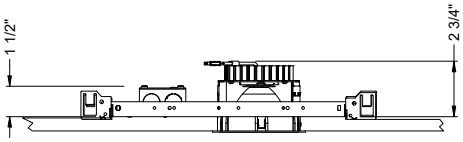
LISTING

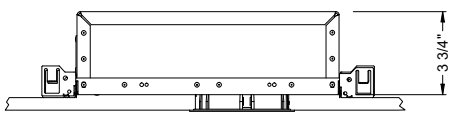
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

ELECTRICAL

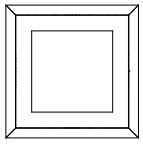
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)

FIXTURE HEIGHT

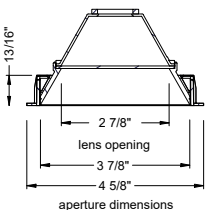




TRIMMED

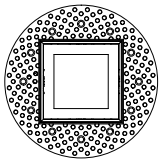


ceiling cutout 4-1/4" square
ceiling thickness 3/8" to 1-5/8"

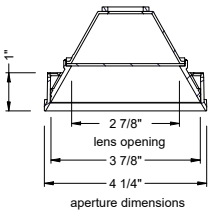


aperture dimensions

TRIMLESS

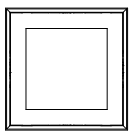


ceiling cutout 4-1/4" square
ceiling thickness 3/8" to 1-3/4"

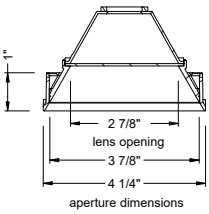


aperture dimensions

MILLWORK



ceiling cutout 4-1/4" square
ceiling thickness 5/8" to 1-3/4"



aperture dimensions

101025

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			

25°- 80° BEAM ORDERING CODE

SERIES	**NU4**	NU4
TYPE	**QDLP**	square downlight, lopro
	QDTLP	square downlight, trimless, lopro
	QDTMWLP	square downlight, trimless, millwork, lopro
LED	**WD**	warm dim (Luminus)
DELIVERED LUMENS	**10LM**	800 lm
	15LM	1200 lm
	20LM	1600 lm
	30LM[1]	2400 lm
	Standard Configuration: 3000K 97CRI HE55	
	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	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	**HE65**	65° high efficiency diffused lens	(0.89)
	HE75	75° high efficiency diffused lens	(0.87)
	HE85	85° high efficiency diffused lens	(0.95)
	D70	70° diffused with clear lens	(0.91)
	WH85	85° brilliant white with clear lens	(1.00)
TIR OPTIC ACCESSORY SEE PAGE 3	**HCL**	honeycomb louver	
	Attached to bezel		
BEZEL LENS SEE PAGE 3	**NL**[1,2]	no lens	
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)

25°- 80° BEAM ORDERING CODE

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

NU4 - QDLP - WD - 13LM - 3018 - 97 - HE55 - HCL - WH - WH - NC - 120 - DIM10 - EM7

NOTES

1. NL option available in D70/WH85.
2. NL option does not meet requirement for AT/DF/WET/NSF listings.
3. IC not available in 25LM/30LM.
4. ELV1 (120V) not available 10LM.
5. EM12 not available in 10LM

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

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS



WH



MC



BK



BZ



WT

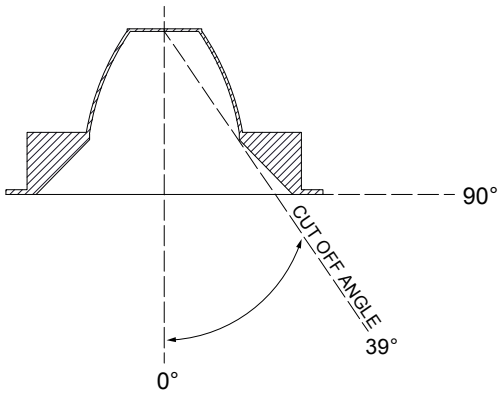
GLARE CONTROL

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 CL is 39 degrees;



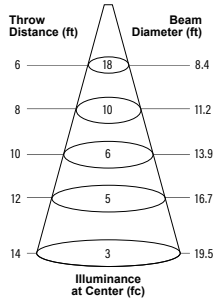
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

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^2		

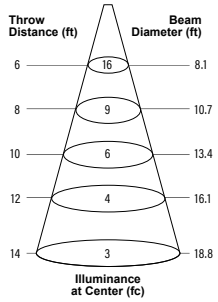
D70
70° DIFFUSED WITH CLEAR LENS



WATTS: 11.3	LPW: 65.4
LUMENS: 739	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	649
5	642
15	578
25	463
35	323
45	71

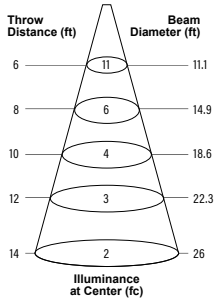
HE65
67° HIGH EFFICIENCY DIFFUSED LENS



WATTS: 11.3	LPW: 65.4
LUMENS: 739	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	571
5	562
15	496
25	391
35	271
45	136

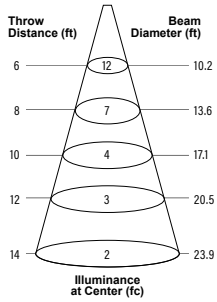
HE85
86° HIGH EFFICIENCY DIFFUSED LENS



WATTS: 11.3	LPW: 64.2
LUMENS: 726	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	388
5	386
15	368
25	331
35	270
45	170

WH85
81° BRILLIANT WHITE WITH CLEAR LENS

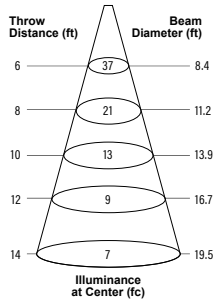


WATTS: 11.3	LPW: 68.5
LUMENS: 774	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	436
5	435
15	428
25	403
35	351
45	131

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		

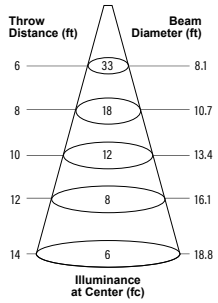
D70
70° DIFFUSED WITH CLEAR LENS



WATTS: 26	LPW: 58.4
LUMENS: 1519	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1336
5	1319
15	1188
25	953
35	664
45	147

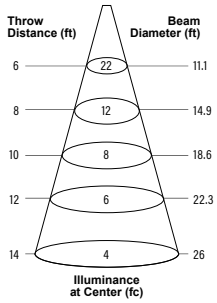
HE65
67° HIGH EFFICIENCY DIFFUSED LENS



WATTS: 26	LPW: 58.5
LUMENS: 1520	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1175
5	1156
15	1021
25	804
35	557
45	281

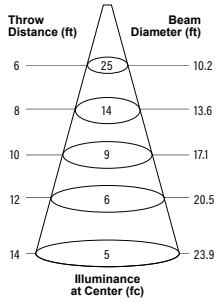
HE85
86° HIGH EFFICIENCY DIFFUSED LENS



WATTS: 26	LPW: 57.4
LUMENS: 1493	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	798
5	793
15	756
25	680
35	556
45	349

WH85
81° BRILLIANT WHITE WITH CLEAR LENS



WATTS: 26	LPW: 61.2
LUMENS: 1592	CCT: 3000K

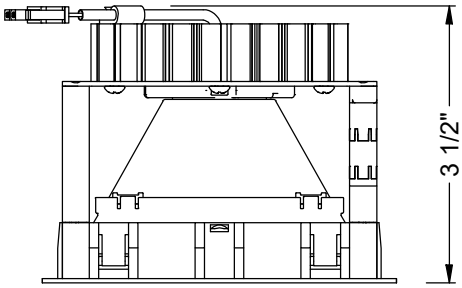
INTENSITY	
DEGREE	CANDELA
0	896
5	896
15	881
25	828
35	723
45	269

alphabet

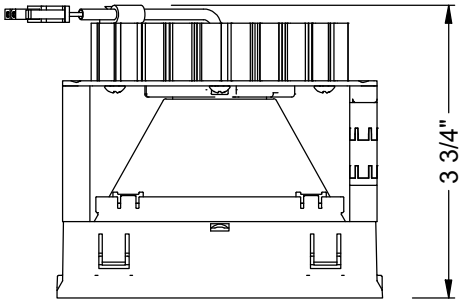
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

FIXTURE HEIGHT



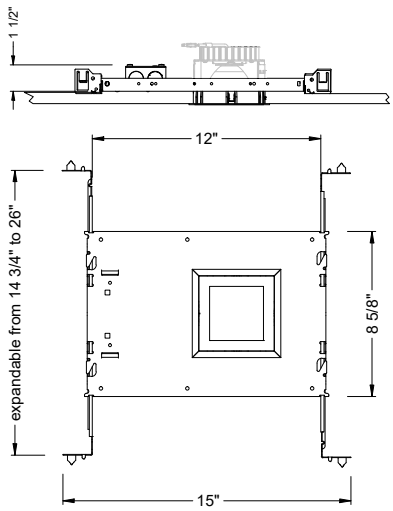
TRIMMED



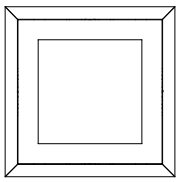
TRIMLESS & MILLWORK

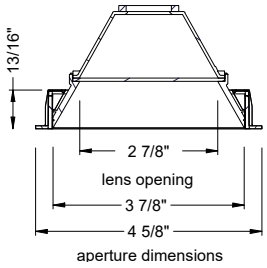
NC - NEW CONSTRUCTION

TRIM



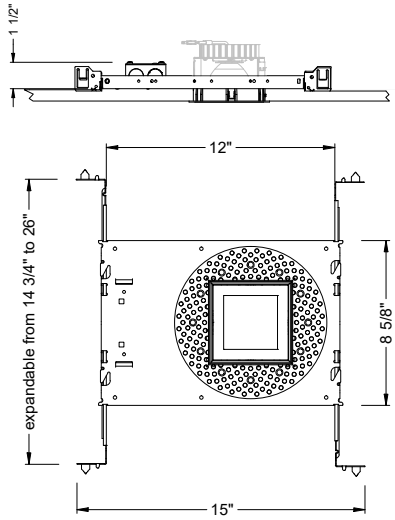
TRIM


ceiling cutout 4-1/4" square
ceiling thickness 3/8" to 1-5/8"

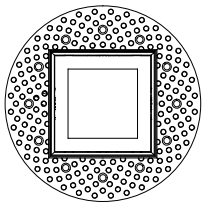


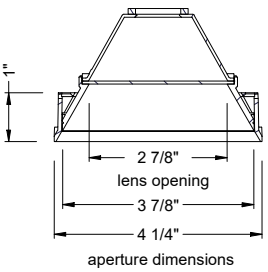
aperture dimensions

TRIMLESS



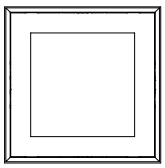
TRIMLESS

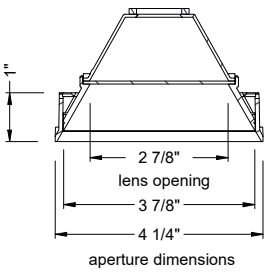

ceiling cutout 4-1/4" square
ceiling thickness 3/8" to 1-3/4"



aperture dimensions

TRIMLESS/MILLWORK


ceiling cutout 4-1/4" square
ceiling thickness 5/8" to 1-3/4"



aperture dimensions

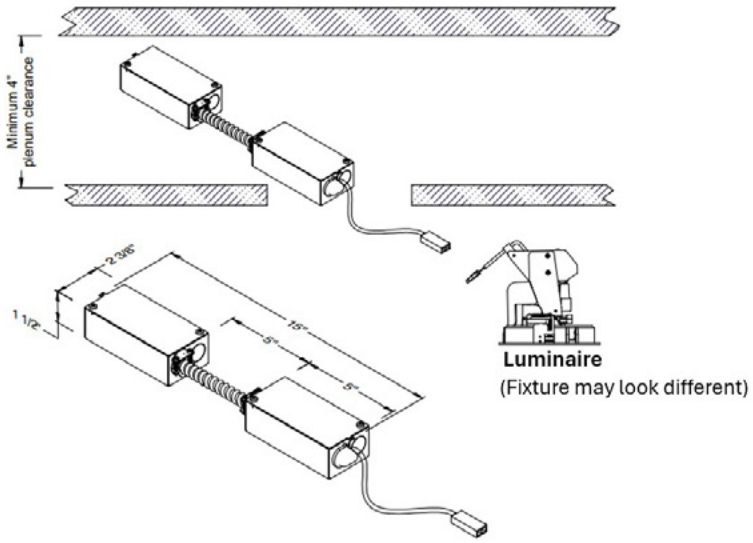
In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

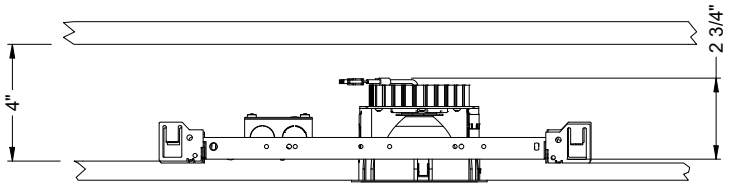
MOUNTING OPTIONS (CONTINUED)

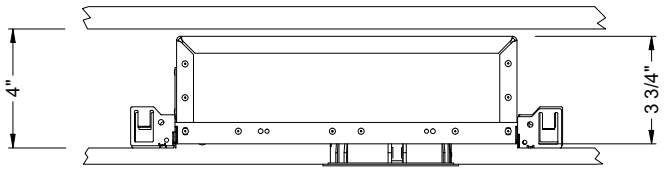
RET - RETRO
TRIM/TRIMLESS



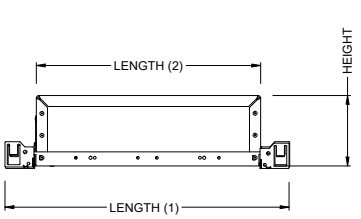
RATINGS / CERTIFICATIONS	NC	RET	IC
TYPE NON-IC	✔	✔	
TYPE IC			✔
CHICAGO PLENUM (CCEA)			
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔	✔	✔

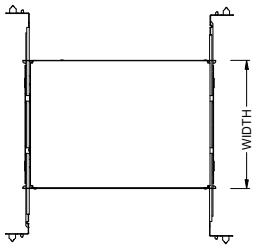
CEILING THICKNESS	
FIXTURE TYPE	MOUNTING TYPE
	NC, IC, RET
	STANDARD CEILING THICKNESS
TRIM	3/8" to 1-5/8"
TRIMLESS	3/8" to 1-3/4"
MILLWORK (TRIMLESS)	5/8" to 1-3/4"





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 - STANDARD BEAMS (25° - 80°)	
LUMEN OUTPUT	BOX - A
	IC
10LM	✔
15LM	✔
20LM	✔
30LM	

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

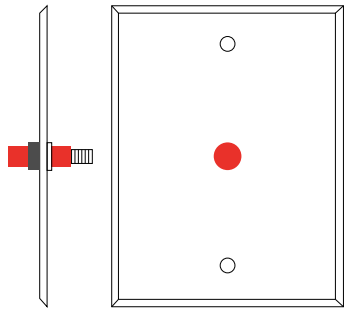
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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

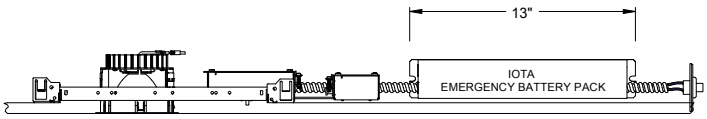
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



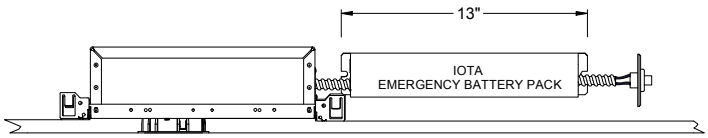
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 20LM)	430LM	611LM	734LM
Notes: Based on 30K, 97CRI			

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

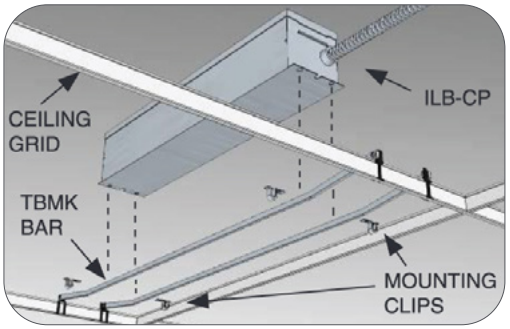


IC - INSULATION CONTACT HOUSING
WITH EM BATTERY (REMOTE TEST SWITCH)



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.

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.