alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU4 LOPRO

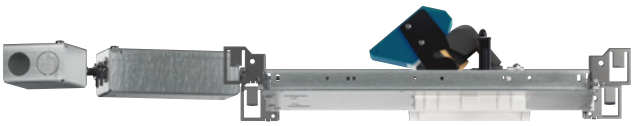
4" Square Adjustable Warm Dim

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

15° - 30° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	730LM @30K/97CRI	13W
15LM	1030LM @30K/97CRI	19W
Notes	Delivered lumens based on 30D optic with no lens, (see page 2)	

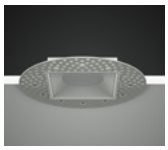
30° - 35° BEAM (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
20LM	1460LM @30K/97CRI	26W
Notes	Delivered lumens based on 30D optic with no lens, (see page 2)	

LUMINUS





Trim



Trimless



Trimless Millwork

FEATURES

- True 40° Tilt with <5% beam disruption (clipping)
- Zero ceiling line obstruction at Full Tilt
- Concentric Tilt Tracking ensures minimal light loss
- Double jointed driver box allows for 4" shallow plenum installation
- 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 Standard 0.3" to 1.1" and Thick Ceiling 1.0" to 2.0"
- Fixture is pre-set and shipped at 20deg tilt

LED

- Luminus Dim-to-warm COB: 97 CRI: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L_{70} > 54,000 hrs
- Dim to Warm from 3000K - 1800K

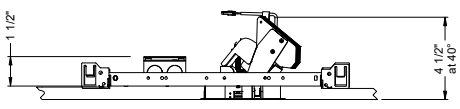
LISTING

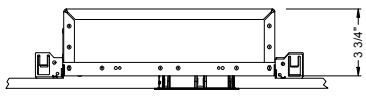
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- **Declare.** - LBC Red List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

ELECTRICAL

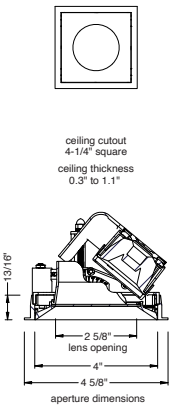
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)

FIXTURE HEIGHT

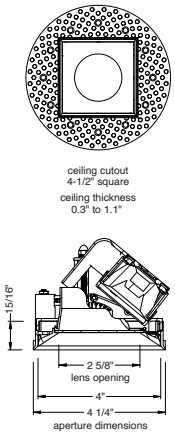




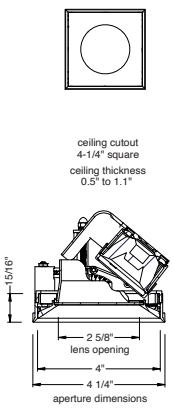
TRIMMED



TRIMLESS



MILLWORK



101026

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			

15°- 30° BEAM ORDERING CODE

SERIES	**NU4**	NU4
TYPE	**QALP**	square adjustable, lopro
	QATLP	square adjustable, trimless, lopro
	QATMWLP	square adjustable, trimless millwork, lopro
LED	**WD**	warm dim (Luminus)
DELIVERED LUMENS	**10LM**[1]	750 lm
	15LM[1]	1125 lm
	20LM[2]	1530 lm
	Standard Configuration: 3000K 97CRI 30D NL	
	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
1	3000	3000	3000
0.5	3000	3000	2800
0.25	2800	2500	2300
0.1	2200	2000	1900
0.05	1800	1800	1800

CRI	**97**	97 CRI	
OPTIC & LM MULTIPLIER SEE PAGE 3	**15D**	15 degrees	(0.92)
	25D	25 degrees	(0.96)
	30D	30 degrees	(1.00)
	35D	35 degrees	(0.97)
TIR OPTIC ACCESSORY SEE PAGE 3	**NA**	no accessory	(1.00)
	HCL	honeycomb louver	(0.85)
	HETA[3]	high efficiency textured lens, similar to Solite™	(0.90)
	Attached to TIR optic, field replaceable		
BEZEL LENS SEE PAGE 3	**NL**[4]	no lens	(1.00)
	CL	clear lens	(0.91)
	DL	diffused lens	(0.89)
	HET	high efficiency textured lens, similar to Solite™	(0.92)
	SBL	smoothing beam lens	(0.92)
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°- 30° BEAM ORDERING CODE

MOUNTING OPTIONS SEE PAGE 5, 5	**NC**	new construction with ceiling fitting plate
	IC[5]	insulation contact housing
	RET	retrofit, no ceiling fitting plate
VOLTAGE	**120**	120V
	UNV	120V-277V
DIMMING	**DIM10**	standard 0-10V dimming to 1%
	ELV1[6]	leading & trailing edge (Triac/ELV) dimming to 1%
ELECTRICAL OPTIONS	**EM7**	emergency battery backup, 90 minutes at 7W to LED
	EM12[7]	emergency battery backup, 90 minutes at 12W to LED
	EM10CA20	remote emergency battery backup, 90 minutes at 10W to LED, CA title 20
SPECIAL SEE PAGE 6	**TC**	thick ceiling application

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 - QALP - WD - 20LM - 3018 - 97 - 30D - NA - HET - WH - WH - NC - UNV - DIM10 - EM7 - TC

NOTES

1. 10LM/15LM available in 15D/25D optics
2. 20LM available in 30D/35D optics.
3. Elliptical lens actual beam distributions for optic
   [15D= 35° x 60°, 25D= 40° x 65°, 30D= 40° x 70°, 35D= 45° x 70°, 40D= 50° x 75°, 50D= 55° x 80°]
4. NL option does not meet requirement for dead-front, airtight, wet and NSF. It is damp location rated.
5. IC not available in 20LM.
6. ELV1 available in 120V.
7. 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

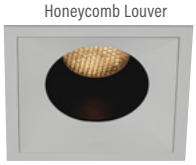


WH MC BK BZ WT

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	22.4	≤5
30D	29.8	≤5

NL
No Lens



OPTIC	BEAM ANGLE	UGR
15D	16.2	≤5
25D	23.2	≤5
30D	30.8	≤5

CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
15D	16.2	≤5
25D	23.2	≤5
30D	30.8	≤5

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
15D	36.8	14.7
25D	39.2	15.8
30D	42.6	16.6

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
15D	22	≤5
25D	26.4	6.7
30D	31.8	8

SBL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
15D	18.2	≤5
25D	23.8	5.3
30D	31	5.6

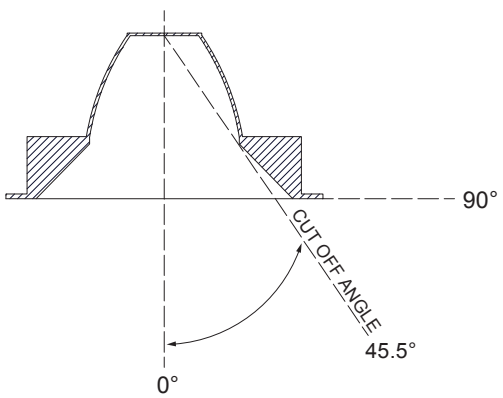
GLARE CONTROL

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 is 45.5 degrees;



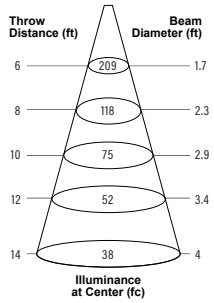
alphabet

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		

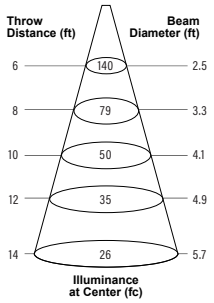
15D 16° NO LENS



WATTS: 19	LPW: 49.8
LUMENS: 946	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	7524
5	5758
15	1390
25	147
35	13
45	2

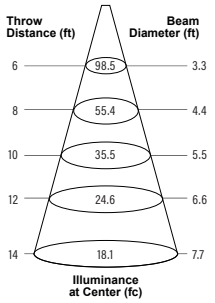
25D 23° NO LENS



WATTS: 19	LPW: 52.1
LUMENS: 991	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	5034
5	4389
15	1616
25	264
35	32
45	4

30D 31° NO LENS

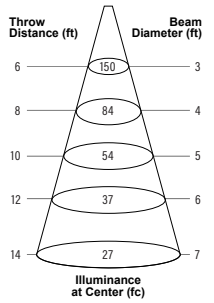


WATTS: 19	LPW: 54.3
LUMENS: 1032	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	3548
5	3342
15	1849
25	404
35	26
45	4

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		

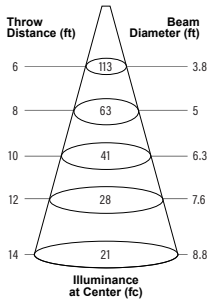
30D 28° NO LENS



WATTS: 25.3	LPW: 57.7
LUMENS: 1460	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	5380
5	4897
15	2462
25	585
35	76.3
45	11

35D 35° NO LENS



WATTS: 25.3	LPW: 59.8
LUMENS: 1513	CCT: 3000K

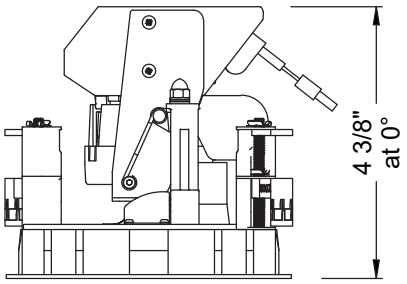
INTENSITY	
DEGREE	CANDELA
0	4059
5	3869
15	2472
25	833
35	95
45	11

alphabet

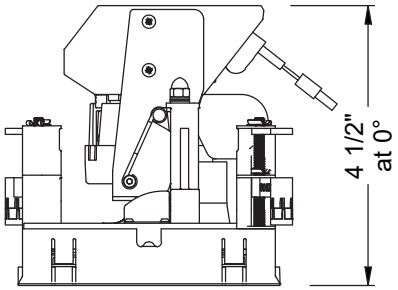
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

FIXTURE HEIGHT



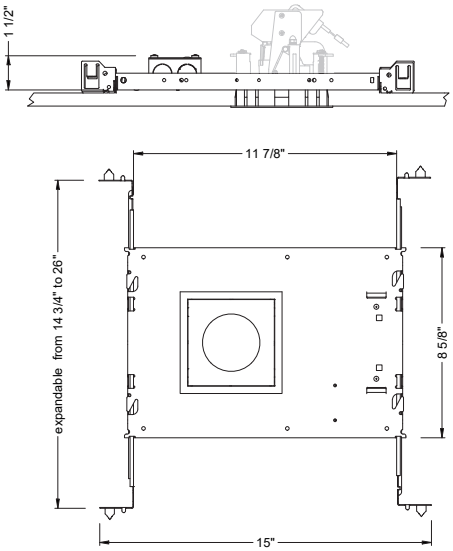
TRIMMED



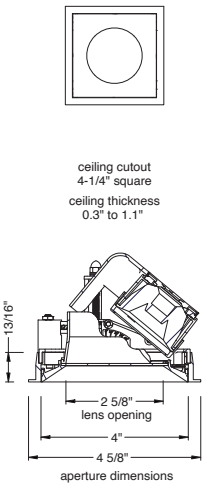
TRIMLESS & MILLWORK

NC - NEW CONSTRUCTION

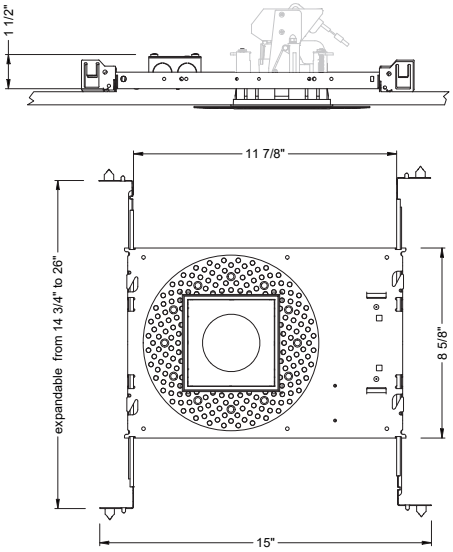
TRIM



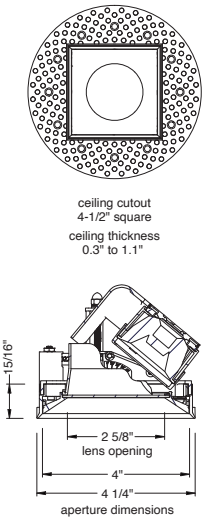
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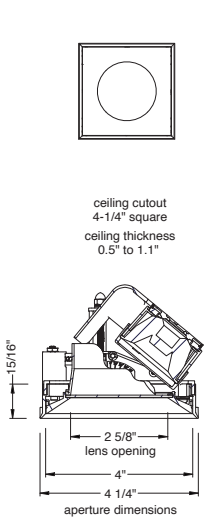
TRIMLESS



TRIMLESS



TRIMLESS/MILLWORK

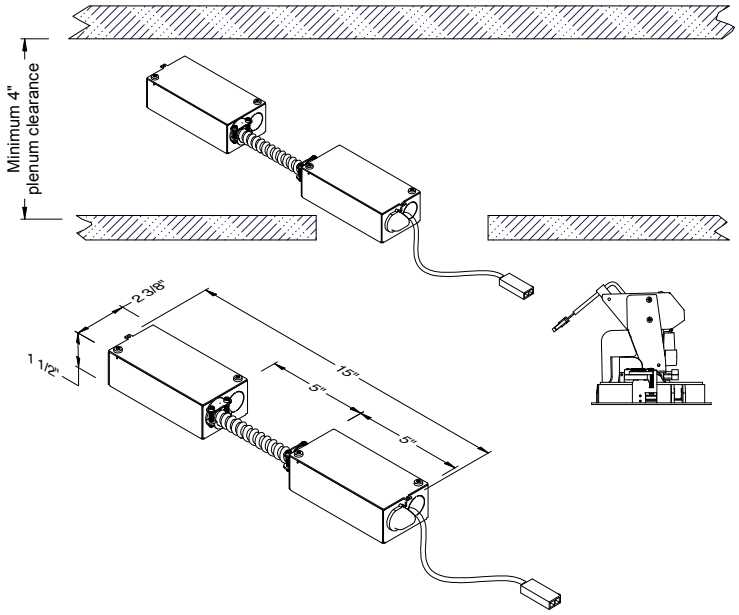


alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS (CONTINUED)

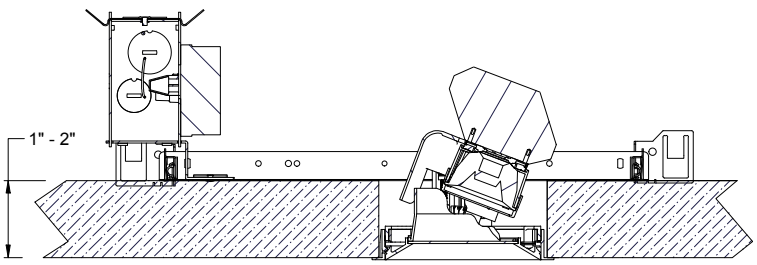
RET - RETRO
TRIM/TRIMLESS



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

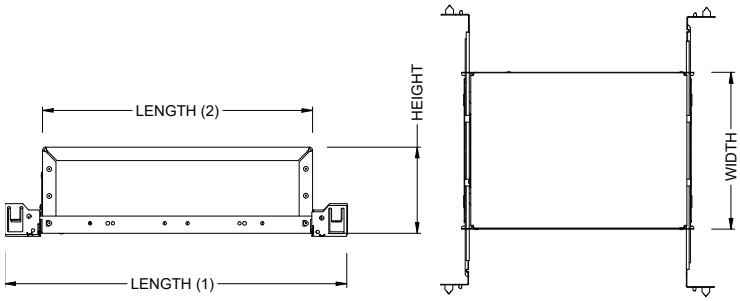
CEILING THICKNESS		
FIXTURE TYPE	NC, RET	IC
	STANDARD CEILING THICKNESS	
TRIM	0.3" to 1.1"	0.625" to 1.1"
TRIMLESS	0.3" to 1.1"	0.625" to 1.1"
MILLWORK (TRIMLESS)	0.5" to 1.1"	0.625" to 1.1"

TC - THICK CEILING (1" TO 2") APPLICATION
TRIM/TRIMLESS



THICK CEILING FIXTURE INFO		
TILT	ROTATION	CEILING THICKNESS
0° - 20°	360°	UP TO 2"
20° - 30°	160°	UP TO 2"
30° - 40°	160°	UP TO 1.625"

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 (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

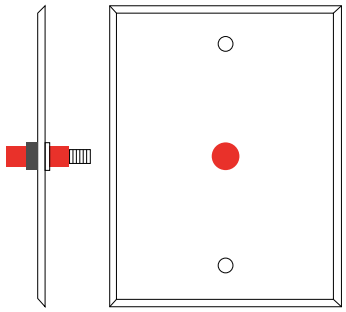
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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

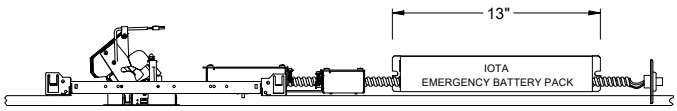
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



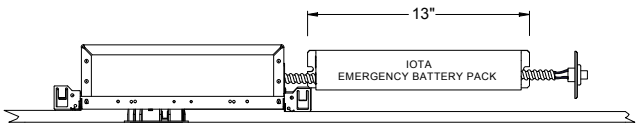
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 20LM)	510LM	730LM	875LM
Notes: Based on 30K, 97CRI			

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

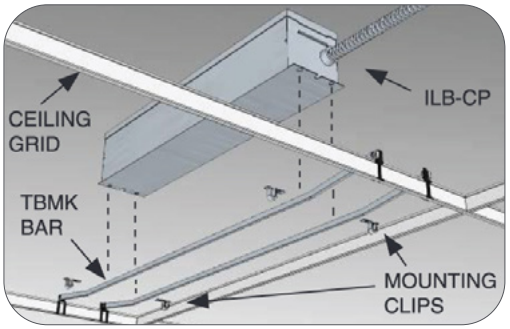


IC - INSULATION CONTACT HOUSING
WITH EM BATTERY (REMOTE TEST SWITCH)



Accessory

76066 Optional T-Grid Mounting Kit[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.