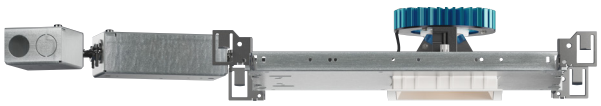
alphabet

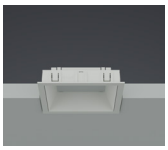
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU4 LOPRO

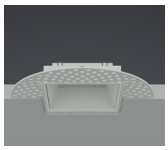
4" Square Downlight Standard White

NSF · 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	880LM @30K/80CRI	9W
15LM	1290LM @30K/80CRI	14W
20LM	1700LM @30K/80CRI	16W
25LM	2120LM @30K/80CRI	20W
30LM	2540LM @30K/80CRI	24W
10LM	750LM @30K/90/CRI	9W
15LM	1090LM @30K/90/CRI	14W
20LM	1440LM @30K/90/CRI	16W
25LM	1800LM @30K/90/CRI	20W
30LM	2160LM @30K/90/CRI	24W
Notes	Delivered lumens based on WH80 optic with no lens, (see page 2)	

FEATURES

- Thermally optimized for longevity
- 3/4" bezel regress with 1/16" micro flange
- Double jointed driver box allows 4" shallow plenum installation
- 60° – 80° beam control
- UGR < 15
- 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 3/8" to 1-3/4"

LED

- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L_{70} > 66,000 hrs
- 80 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L_{70} > 66,000 hrs

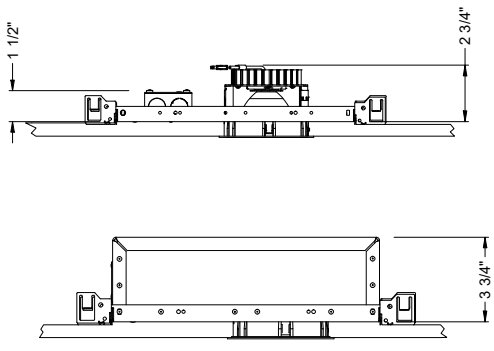
LISTING

- 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)
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

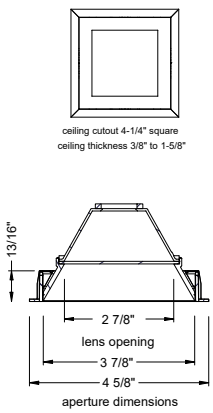
ELECTRICAL

- 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)

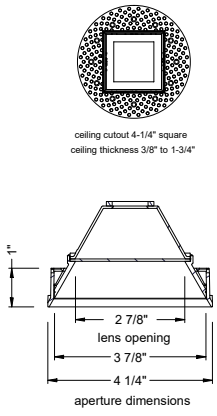
FIXTURE HEIGHT



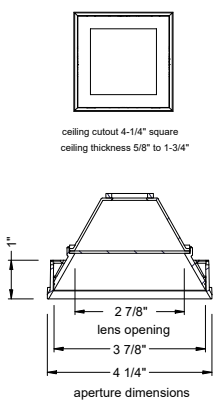
TRIMMED



TRIMLESS



MILLWORK



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

60°- 80° BEAM ORDERING CODE

SERIES	**NU4**	NU4
TYPE	**QDLP**	square downlight, lopro
	QDTLP	square downlight, trimless, lopro
	QDTMWLP	square downlight, trimless, millwork, lopro
LED	**SW**	standard white
DELIVERED LUMENS	**10LM**	880 lm
	15LM	1290 lm
	20LM	1700 lm
	25LM	2120 lm
	30LM	2540 lm
	Standard Configuration: 3000K 80CRI NL **Calculated Delivered Lumens** = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]	
CCT	**27K**	2700K
	30K	3000K
	35K	3500K
	40K	4000K

CCT	2700K		3000K		3500K		4000K	
CRI	80+	90+	80+	90+	80+	90+	80+	90+
CCT MULTIPLIER FOR LUMEN OUTPUT	0.96	0.81	1.00	0.85	1.03	0.88	1.06	0.91

CRI	**80**	80 CRI	
	90	90 CRI	
OPTIC & LM MULTIPLIER SEE PAGE 4, 5	**HE60**	60° high efficiency diffused lens	(0.97)
	HE70	70° high efficiency diffused lens	(0.94)
	HE80	80° high efficiency diffused lens	(0.98)
	D65	65° diffused with clear lens	(0.98)
	WH80	80° brilliant white with clear lens	(1.00)
BEZEL LENS	**NL**[1,2]	no lens	
TRIM COLOR	**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	**BK**	black	(0.98)
	WH	white	(1.00)
	MC	matte chrome	(0.99)
	BZ	bronze	(0.98)
	WT	wheat	(0.99)

60°- 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**	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 - SW - 20LM - 35K - 90 - HE60 - WH - WH - NC - UNV - DIM10 - EM7

NOTES

1. NL option available with D65/WH80.
2. NL option does not meet requirement for AT/DF/WET/NSF listings
3. IC not available in 30LM.
4. ELV1 (120V) not available 10LM.
5. EM12 not available in 10LM.

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS



WH



MC



BK



BZ



WT

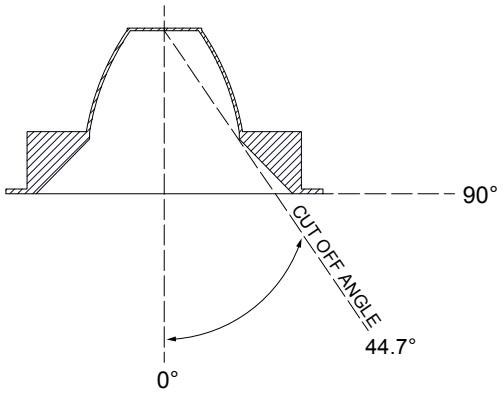
GLARE CONTROL

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 NL and CL is 44.7 degrees;



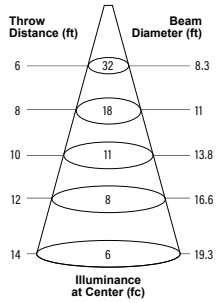
alphabet

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		

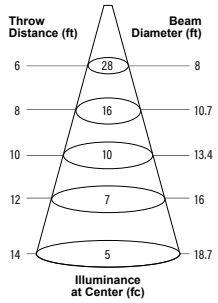
D65
69° DIFFUSED WITH CLEAR LENS



WATTS: 12.3	LPW: 105.1
LUMENS: 1292	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1146
5	1130
15	1009
25	806
35	558
45	126

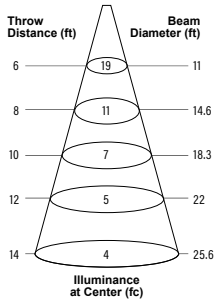
HE60
67° HIGH EFFICIENCY DIFFUSED LENS



WATTS: 12.3	LPW: 104.4
LUMENS: 1284	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	997
5	981
15	865
25	681
35	470
45	235

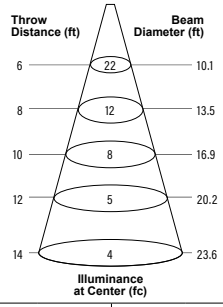
HE80
85° HIGH EFFICIENCY DIFFUSED LENS



WATTS: 12.3	LPW: 103.3
LUMENS: 1271	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	689
5	685
15	651
25	583
35	473
45	294

WH80
80° BRILLIANT WHITE WITH CLEAR LENS

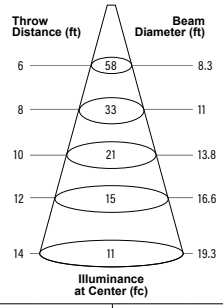


WATTS: 12.3	LPW: 109.3
LUMENS: 1344	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	782
5	779
15	757
25	704
35	607
45	225

30LM 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		

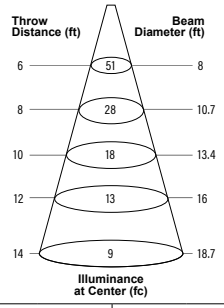
D65
69° DIFFUSED WITH CLEAR LENS



WATTS: 23.3	LPW: 101.1
LUMENS: 2357	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	2089
5	2061
15	1840
25	1470
35	1018
45	229

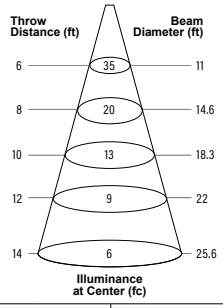
HE60
67° HIGH EFFICIENCY DIFFUSED LENS



WATTS: 23.3	LPW: 100.5
LUMENS: 2341	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1819
5	1790
15	1577
25	1242
35	858
45	429

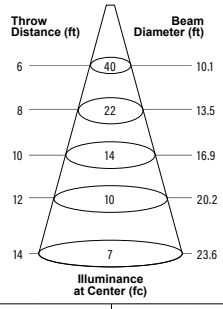
HE80
85° HIGH EFFICIENCY DIFFUSED LENS



WATTS: 23.3	LPW: 99.5
LUMENS: 2318	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1257
5	1249
15	1187
25	1062
35	862
45	537

WH80
80° BRILLIANT WHITE WITH CLEAR LENS



WATTS: 23.3	LPW: 105.2
LUMENS: 2452	CCT: 3000K

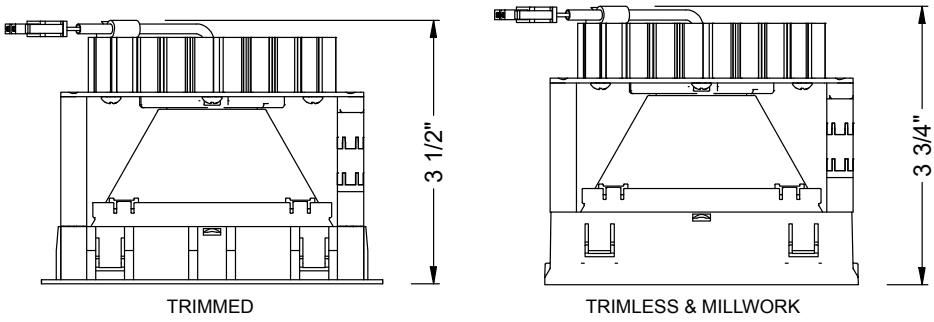
INTENSITY	
DEGREE	CANDELA
0	1426
5	1421
15	1380
25	1283
35	1107
45	410

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

FIXTURE HEIGHT

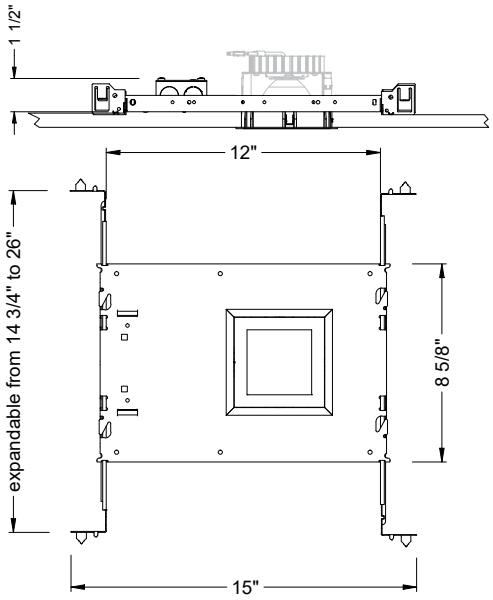


TRIMMED

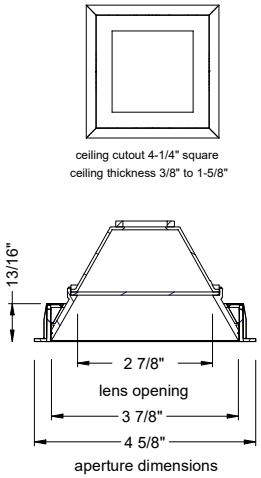
TRIMLESS & MILLWORK

NC - NEW CONSTRUCTION

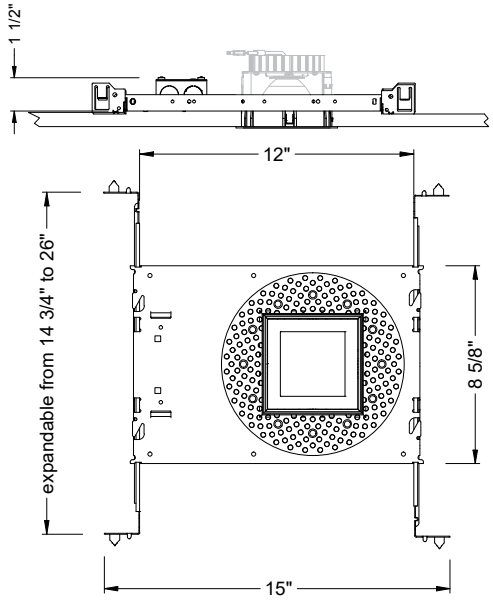
TRIM



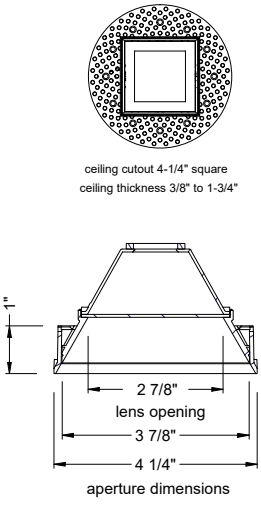
TRIM



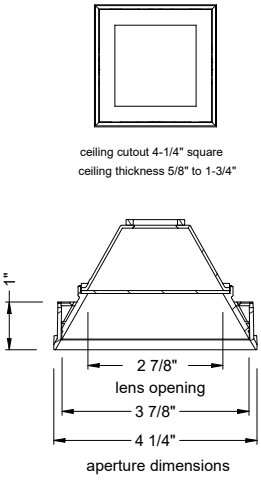
TRIMLESS



TRIMLESS



TRIMLESS/MILLWORK



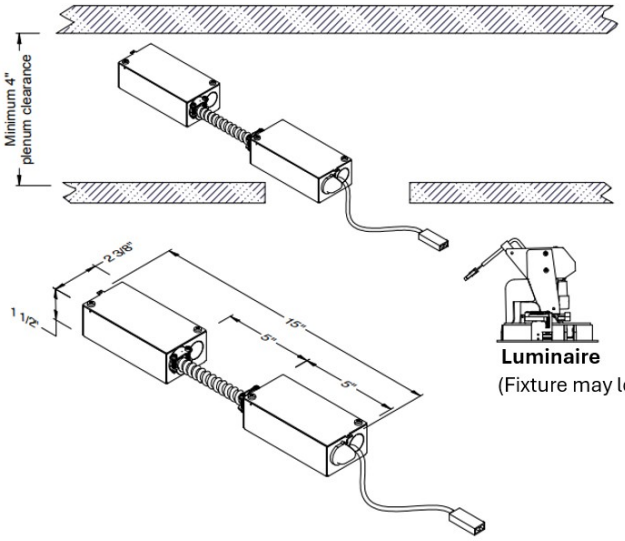
101000

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS (CONTINUED)

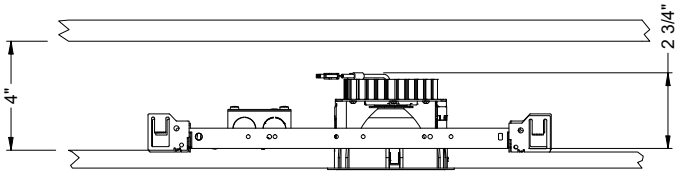
RET - RETRO
TRIM/TRIMLESS

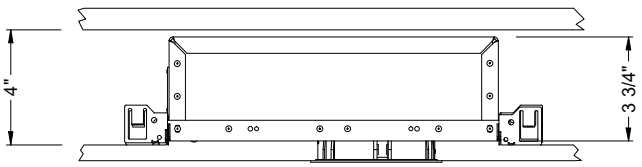


Luminaire
(Fixture may look different)

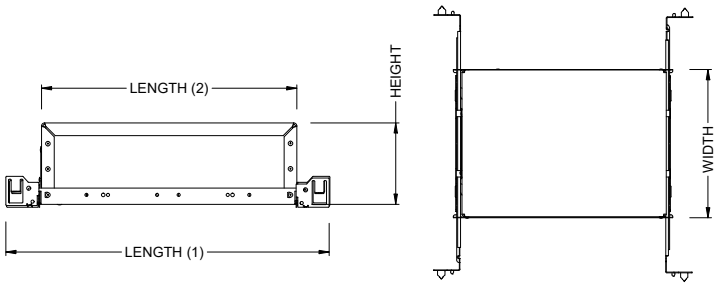
RATINGS / CERTIFICATIONS	NC	RET	IC
TYPE NON-IC	✔	✔	
TYPE IC			✔
CHICAGO PLENUM (CCEA)			
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔	✔	✔

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 (60° - 80°)	
LUMEN OUTPUT	IC
10LM	✔
15LM	✔
20LM	✔
25LM	✔
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

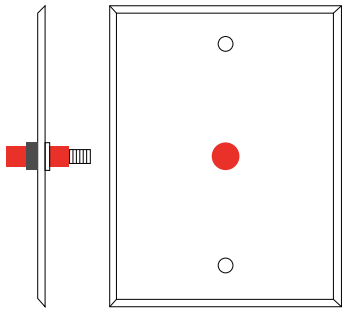
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS

Above ceiling access is 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

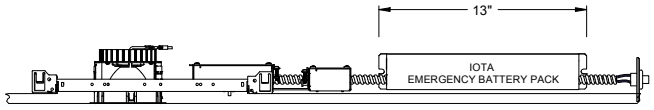
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



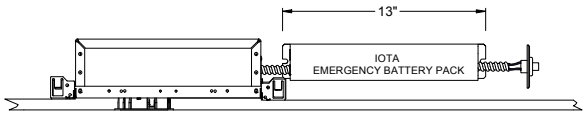
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 30LM)	700LM	1000LM	1200LM
Notes: Based on 30K, 80CRI			

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

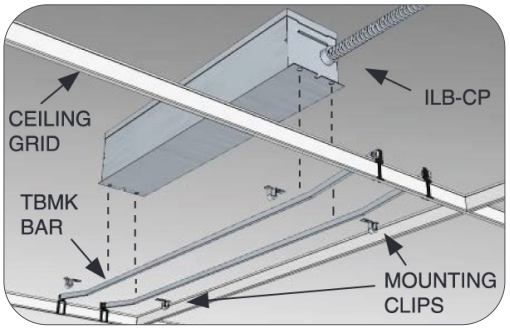


IC - INSULATION CONTACT HOUSING
WITH EM BATTERY (REMOTE TEST SWITCH)



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.