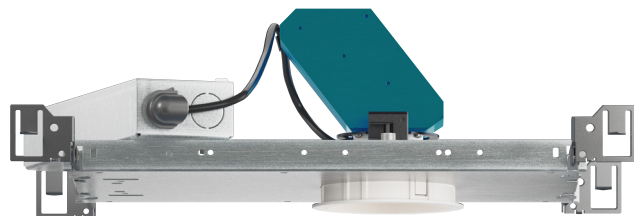
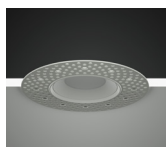


## NU3

### 3" Round Downlight Standard White



Trim



Trimless



Trimless Millwork

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

20° - 60° BEAM		
(Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	880LM @30K/80CRI	9W
15LM	1290LM @30K/80CRI	13W
20LM	1700LM @30K/80CRI	17W
25LM	2120LM @30K/80CRI	22W
30LM	2540LM @30K/80CRI	28W
35LM	2890LM @30K/80CRI	34W
40LM	3300LM @30K/80CRI	41W
10LM	740LM @30K/90CRI	9W
15LM	1090LM @30K/90CRI	13W
20LM	1440LM @30K/90CRI	17W
25LM	1790LM @30K/90CRI	22W
30LM	2150LM @30K/90CRI	28W
35LM	2440LM @30K/90CRI	34W
40LM	2790LM @30K/90CRI	41W
Notes	Delivered lumens based on 20° optic with no lens (see page 2)	

15° BEAM		
(Note: Specifications are subject to change without notice)		
6mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	870LM @30K/80CRI	11W
15LM	1280LM @30K/80CRI	20W
20LM	1520LM @30K/80CRI	31W
10LM	740LM @30K/90CRI	11W
15LM	1080LM @30K/90CRI	20W
20LM	1290LM @30K/90CRI	31W
Notes	Delivered lumens based on 15° optic with no lens (see page 2)	

eldoLED  
your present & our drive



CASAMBI

#### FEATURES

- 3/4" bezel regress with 1/16" micro flange
- 15° to 55° optical beam control
- UGR <17
- Up to 100 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: L<sub>70</sub> > 66,000 hrs
- 80 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L<sub>70</sub> > 66,000 hrs

#### LISTING

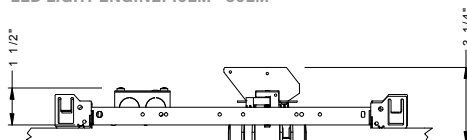
- ULUS Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- 5 Year Limited warranty

#### ELECTRICAL

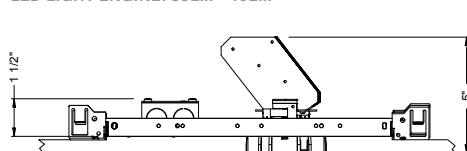
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)

#### FIXTURE HEIGHT

LED LIGHT ENGINE: 10LM - 30LM



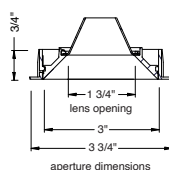
LED LIGHT ENGINE: 35LM - 40LM



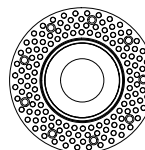
#### TRIMMED



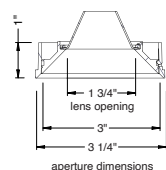
ceiling cutout  
3-3/8" diameter  
ceiling thickness  
1/8" to 1-1/4"



#### TRIMLESS



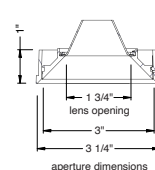
ceiling cutout  
3-1/2" diameter  
ceiling thickness  
3/8" to 1-3/8"



#### MILLWORK



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



# alphabet

PROJECT INFORMATION			
JOB NAME			TYPE
ORDERING CODE			

15°- 55° BEAM ORDERING CODE												
SERIES	NU3	NU3										
TYPE	RD	round downlight										
	RDT	round downlight trimless										
	RDTMW	round downlight trimless millwork										
LED	SW	standard white										
DELIVERED LUMENS	10LM	880 lm										
	15LM	1290 lm										
	20LM	1700 lm										
	25LM	2120 lm										
	30LM	2540 lm										
	35LM <sup>1</sup>	2890 lm										
	40LM <sup>1</sup>	3300 lm										
	Standard Configuration: 3000K 80CRI NL 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 4	15D <sup>2</sup>	15 degrees (0.98)										
	20D	20 degrees (1.00)										
	25D	25 degrees (0.99)										
	40D	40 degrees (0.99)										
	55D	55 degrees (0.97)										
ACCESSORY	HCL <sup>3</sup>	honeycomb louver (0.95)										
	Attached to bezel											
BEZEL LENS SEE PAGE 3	NL <sup>4</sup>	no lens (1.00)										
	CL	clear lens (0.97)										
	DL	diffused lens (0.85)										
	HET	high efficiency textured lens, similar to Solite™ (0.96)										
	SBL	smoothing beam lens (0.96)										
	E	elliptical beam spread (0.96)										
TRIM COLOR SEE PAGE 3	BK	black										
	WH	white										
	MC	matte chrome										
	BZ	bronze										
	WT	wheat										
	CC <sup>5</sup>	custom color, consult factory for details										
Antimicrobial finish, add <b>AM</b> 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 <sup>5</sup>	custom color, consult factory for details										
Antimicrobial finish, add <b>AM</b> to black, white or matte chrome i.e. BKAM.												

15°- 55° BEAM ORDERING CODE		
MOUNTING OPTIONS SEE PAGE 6, 7	NC	new construction with ceiling fitting plate
	IC <sup>6</sup>	insulation contact housing
	ICAT <sup>6</sup>	insulation contact/airtight housing
	CP <sup>6</sup>	chicago plenum housing
	RET	retrofit, no ceiling fitting plate
VOLTAGE	I20	120V
	UNV	120V-277V
DIMMING	DIM10 <sup>7</sup>	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%
	LUTP <sup>8</sup>	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELV1 <sup>9</sup>	leading & trailing edge (Triac/ELV) dimming to 1%
ELECTRICAL OPTIONS	NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dimming to 0%
	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)	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 - RD - SW - 20LM - 30K - 90 - 20D - NL - WH - WH - NC - UNV - DIM10 - EM7	

## NOTES

- 35LM/40LM available in ELV1/DIM10 dimming.
- 15D available in 10LM/15LM/20LM.
- HCL not available with lens.
- 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 15D/20LM or 35LM/40LM.
- DIM10 code uses ERP 1% driver for 35LM and 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

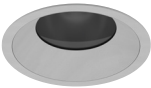
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

## TRIM OPTIONS

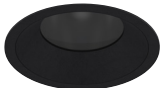
### TRIM/BEZEL COLORS



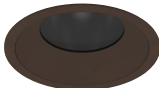
WH



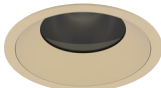
MC



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.

**CL**

Clear Lens



OPTIC	BEAM ANGLE	UGR
15D	14.4	17
20D	22	16.8
25D	25	16.9
40D	39	17.7
55D	56	18.2

**NL**

No Lens



OPTIC	BEAM ANGLE	UGR
15D	14.4	17.2
20D	21	16.6
25D	25	16.8
40D	39	17.7
55D	55	18

**HET**

High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
15D	19.5	17.7
20D	24.4	18
25D	27	18.6
40D	38.5	19.1
55D	49.5	19.4

**DL**

Diffused Lens



OPTIC	BEAM ANGLE	UGR
15D	40	21.1
20D	45	21.5
25D	51.7	22.1
40D	59	22.9

**ACCESSORY**

Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
15D	12	≤5
20D	16	≤5
25D	20	≤5
40D	32	≤5
55D	44	≤5

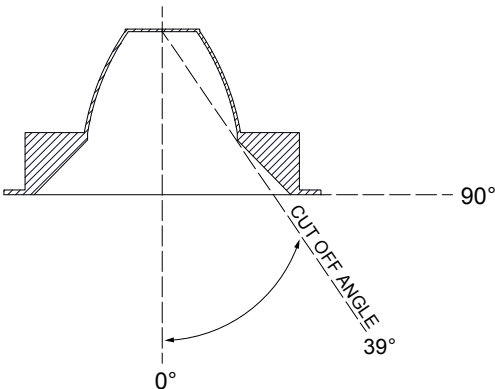
## GLARE CONTROL

### 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.

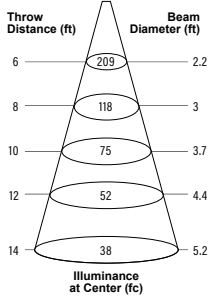
- Cutoff angle is 39° degrees;

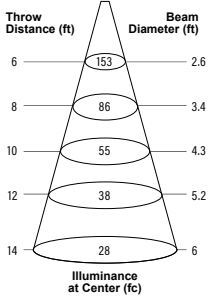


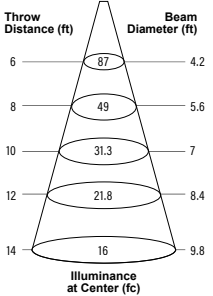
PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

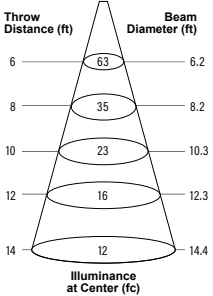
PHOTOMETRIC DATA

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 <sup>2</sup>		

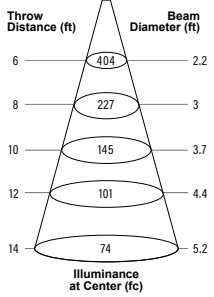
20C-NL 21° NO LENS	
	
WATTS: 16.5	LPW: 102.5
LUMENS: 1692	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	7511
5	6466
15	1906
25	683
35	410
45	21

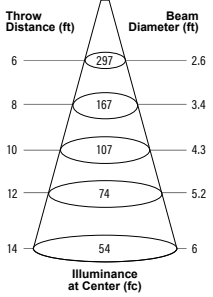
25C-NL 25° NO LENS	
	
WATTS: 16.5	LPW: 102.5
LUMENS: 1691	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	5526
5	4840
15	2030
25	884
35	409
45	16

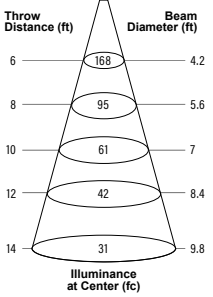
40C-NL 39° NO LENS	
	
WATTS: 16.5	LPW: 101.6
LUMENS: 1676	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	3133
5	3036
15	2084
25	1060
35	469
45	24

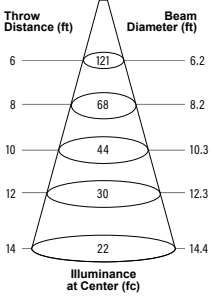
55C-NL 55° NO LENS	
	
WATTS: 16.5	LPW: 100.6
LUMENS: 1660	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2258
5	2217
15	1914
25	1285
35	471
45	26

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 <sup>2</sup>		

20C-NL 21° NO LENS	
	
WATTS: 40.7	LPW: 80.3
LUMENS: 3270	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	14516
5	12495
15	3683
25	1320
35	792.5
45	40

25C-NL 25° NO LENS	
	
WATTS: 40.7	LPW: 80.3
LUMENS: 3267	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	10679
5	9354
15	3924
25	1709
35	790
45	31

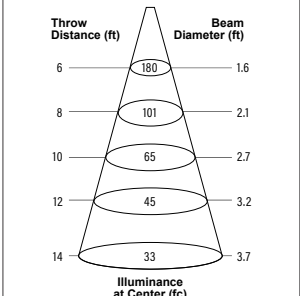
40C-NL 39° NO LENS	
	
WATTS: 40.7	LPW: 79.6
LUMENS: 3239	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	6054
5	5866
15	4027
25	2048
35	907
45	46

55C-NL 55° NO LENS	
	
WATTS: 40.7	LPW: 78.8
LUMENS: 3209	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	4363
5	4284
15	3699
25	2483
35	911
45	51

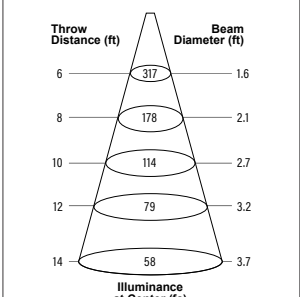
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

10LM 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 <sup>2</sup>		

15C-NL 15° NO LENS	
	
WATTS: 11.3	LPW: 76.6
LUMENS: 866	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	6485
5	4581
15	630
25	321
35	248
45	3

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 <sup>2</sup>		

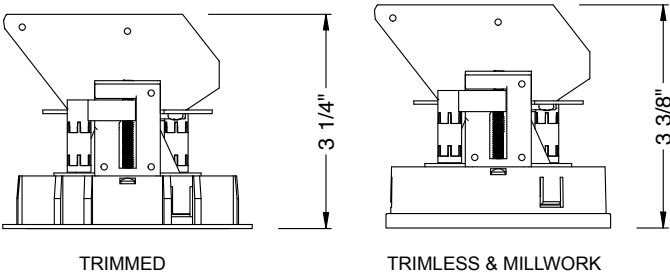
15C-NL 15° NO LENS	
	
WATTS: 31	LPW: 49.1
LUMENS: 1523	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	11404
5	8056
15	1108
25	565
35	436
45	4

PROJECT INFORMATION		
JOB NAME	TYPE	
ORDERING CODE		

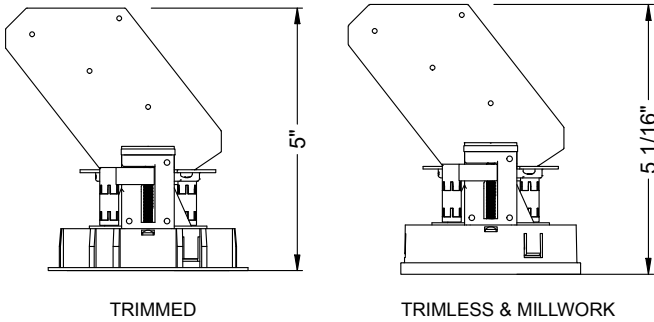
## MOUNTING OPTIONS

### FIXTURE HEIGHT

#### 10LM - 30LM CONFIGURATION

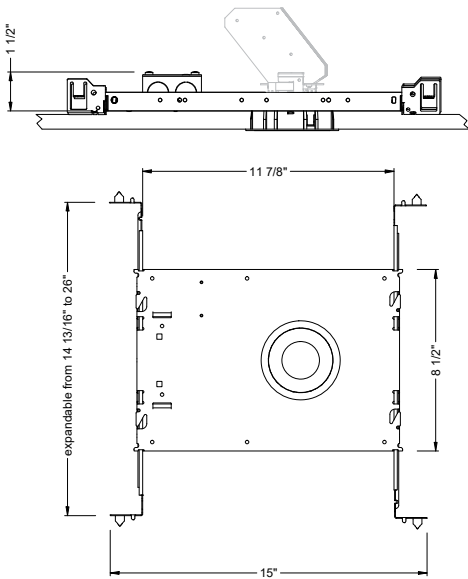


#### 35LM - 40LM CONFIGURATION

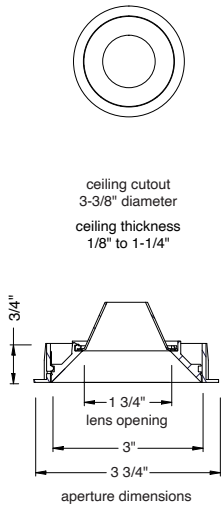


### NC - NEW CONSTRUCTION

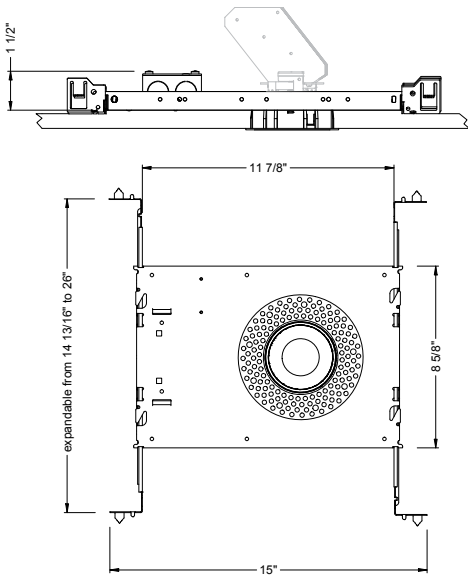
#### TRIM



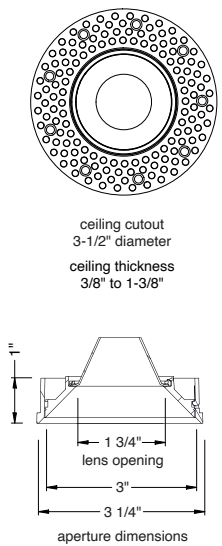
#### TRIM



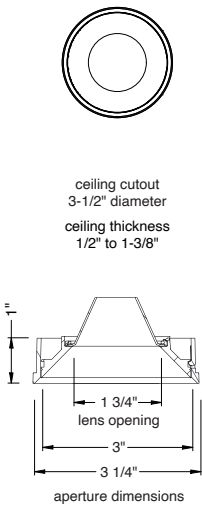
#### TRIMLESS



#### TRIMLESS



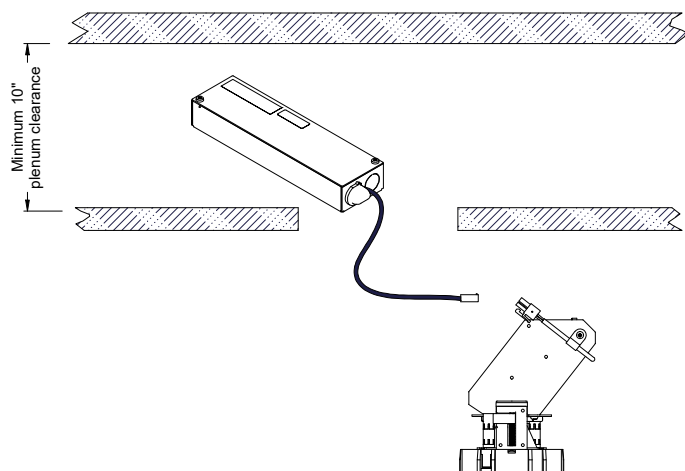
#### TRIMLESS/MILLWORK



PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

## MOUNTING OPTIONS (CONTINUED)

### RET - RETRO TRIM/TRIMLESS



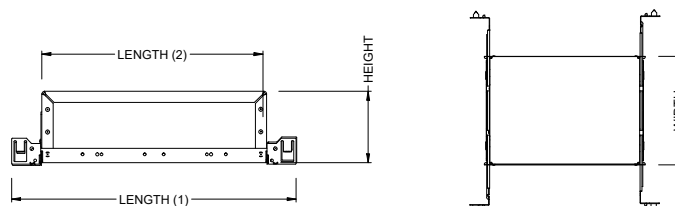
RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✓	✓			
TYPE IC			✓	✓	
CHICAGO PLENUM (CCEA)					✓
SUITABLE FOR AIR HANDLING PLENUMS	✓	✓	✓	✓	✓
REDUCED AIRFLOW (WITH LENS) ASTM E283	✓	✓	✓	✓	✓

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)	1/2" 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"

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (20° - 60°)			
LUMEN OUTPUT	BOX - A		
	IC	ICAT	CP
10LM	✓	✓	✓
15LM	✓	✓	✓
20LM	✓	✓	✓
25LM	✓	✓	✓
30LM			
35LM			
40LM			

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (15°)			
LUMEN OUTPUT	BOX - A		
	IC	ICAT	CP
10LM	✓	✓	✓
15LM	✓	✓	✓
20LM			

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

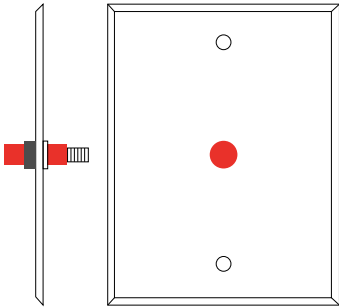
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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

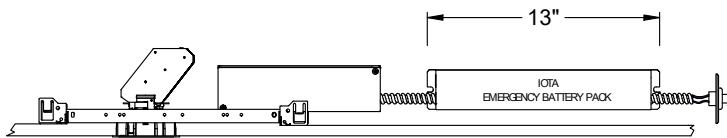
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



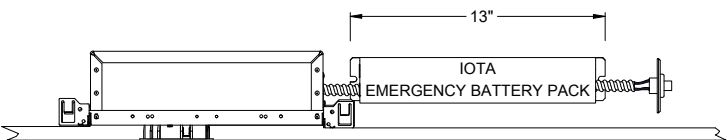
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 30LM)	684LM	992LM	1190LM
Notes: Based on 30K, 80CRI			

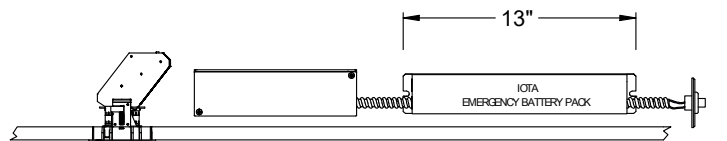
NC - NEW CONSTRUCTION  
WITH EM BATTERY (REMOTE TEST SWITCH)



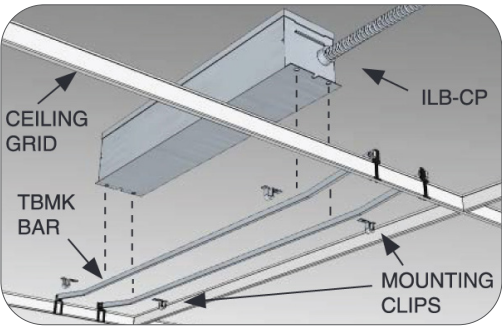
IC / ICAT / CP - INSULATION CONTACT HOUSING  
WITH EM BATTERY (REMOTE TEST SWITCH)



RET - RETROFIT  
WITH EM BATTERY (REMOTE TEST SWITCH)



Accessory  
76066 Optional T-Grid Mounting Kit<sup>1</sup>



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