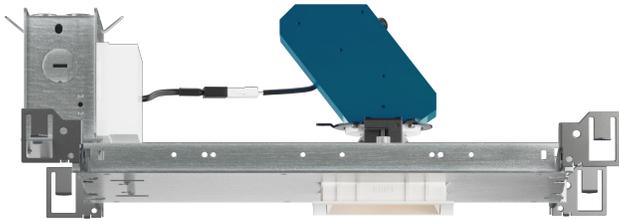


PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

NU3

3" Square Downlight Warm Dim



65° - 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
13LM	1040LM @30K/97CRI	17W
20LM	1565LM @30K/97CRI	27W
30LM	2360LM @30K/97CRI	40W
Notes	Delivered lumens based on WH80 optic with clear lens, (see page 2)	



Trim



Trimless



Trimless Millwork

FEATURES

- 3/4" bezel regress with 1/16" micro flange
- 65° - 80° optical beam control
- UGR < 20
- Up to 62 LPW
- Glare control, specialty optics, trim options, and custom finishes available
- Microban® antimicrobial finish available on all exposed painted surfaces

LED

- Luminus Dim-to-warm COB:
- 97 CRI: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L₇₀ > 54,000 hrs

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%

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

CONSTRUCTION

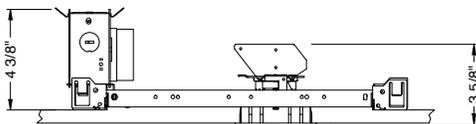
- Lexan™ (PC) highly resistant to impact and heat (240°F)
- Optimal material for wireless BLE signal connectivity
- Shatter proof acrylic bezel lens
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/8" to 1-3/8"

ELECTRICAL

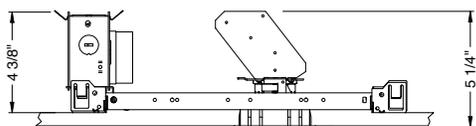
- 120V-277V, 120 only Triac / ELV
- Power factory ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)

FIXTURE HEIGHT

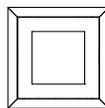
10LM - 20LM LOW LUMENS



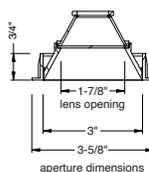
30LM HIGH LUMENS



TRIMMED

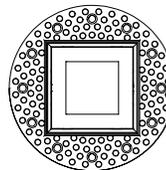


ceiling cutout
3-1/4" square
ceiling thickness
1/8" to 1-1/4"

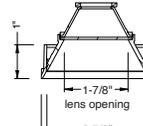


aperture dimensions

TRIMLESS

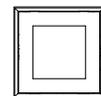


ceiling cutout
3-1/4" square
ceiling thickness
3/8" to 1-3/8"

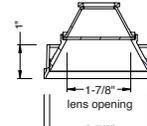


aperture dimensions

MILLWORK



ceiling cutout
3-9/32" square
ceiling thickness
3/8" to 1-3/8"



aperture dimensions

alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

60°- 80° BEAM ORDERING CODE

SERIES	NU3	NU3				
TYPE	QD	square downlight				
	QDT	square downlight trimless				
	QDTMW	square downlight trimless millwork				
LED	WD	warm dim (Luminus)				
DELIVERED LUMENS	10LM	800 lm				
	13LM	1040 lm				
	20LM	1565 lm				
	30LM	2360 lm				
Standard Configuration: 3000K 80CRI WH75						
CCT	3018	3000K, dim to 1800K				
		CCT at Light Level (%LF) ³				
		%LF	30LM	20LM	13LM	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 4	HE65	65° high efficiency diffused lens (0.94)				
	HE80	80° high efficiency diffused lens (0.96)				
	D65	65° diffused with clear lens (0.97)				
	WH75	75° brilliant white with clear lens (1.00)				
TRIM COLOR SEE PAGE 3	BK	black				
	WH	white				
	MC	matte chrome				
	BZ	bronze				
	WT	wheat				
	CC¹	custom color, consult factory for details				
Antimicrobial finish, add AM 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)				
	CC¹	custom color, consult factory for details				
Antimicrobial finish, add AM to black, white or matte chrome i.e. BKAM.						

60°- 80° BEAM ORDERING CODE

MOUNTING OPTIONS SEE PAGE 5, 6	NC	new construction with ceiling fitting plate
	IC²	insulation contact housing
	ICAT²	insulation contact/airtight housing
	CP²	chicago plenum housing
	RET	retrofit, no ceiling fitting plate
VOLTAGE	120	120V
	UNV	120V-277V
DIMMING	DIM10	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%
	DMXZ	DMX dim to zero
	LUTP³	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELV1⁴	leading & trailing edge (Triac/ELV) dimming to 1%
	NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dimming to 0%
CAS	Casambi Bluetooth control with flicker free 1% dimming	
ELECTRICAL OPTIONS	EM7	emergency battery backup, 90 minutes at 7W to LED
	EM12	emergency battery backup, 90 minutes at 12W to LED
	EM10CA20	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 - QD - WD - 13LM - 3018 - 97 - HE65 - WH - WH - NC - UNV - DIM10 - EM7

NOTES

1. Custom set up fee plus minimum quantity required per color.
2. IC/ICAT/CP not available in 30LM.
3. LUTP not available in 25LM/30LM.
4. ELV1 dimming available in 120V only.

* Values shown are for reference only. Actual CCT may vary.

alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

TRIM OPTIONS

TRIM/BEZEL COLORS



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.



OPTIC	BEAM ANGLE	UGR
D65	65	20.6
WH75	74	23.6



OPTIC	BEAM ANGLE	UGR
HE65	64	22.2
HE80	79	24.3

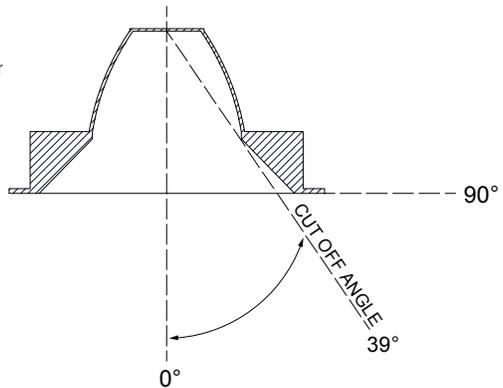
GLARE CONTROL

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 39° degrees;



alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

PHOTOMETRIC DATA

13M

HE65 64° HIGH EFFICIENCY DIFFUSED LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	24
8	14
10	9
12	6
14	4
	Illuminance at Center (fc)
7.5	10.1
10.1	12.6
12.6	15.1
15.1	17.6
WATTS: 17	LPW: 58.6
LUMENS: 996	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	866
5	850
15	743
25	574
35	368
45	144

HE80 82° HIGH EFFICIENCY DIFFUSED LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	15
8	9
10	6
12	4
14	3
	Illuminance at Center (fc)
10.4	13.8
13.8	17.3
17.3	20.7
20.7	24.2
WATTS: 17	LPW: 56.9
LUMENS: 967	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	558
5	554
15	529
25	475
35	377
45	206

D65 66° DIFFUSED WITH CLEAR LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	27
8	15
10	10
12	7
14	5
	Illuminance at Center (fc)
7.7	10.3
10.3	12.9
12.9	15.5
15.5	18.1
WATTS: 17	LPW: 58.8
LUMENS: 1000	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	958
5	944
15	835
25	658
35	395
45	84

WH75 78° BRILLIANT WHITE WITH CLEAR LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	17
8	10
10	6
12	4
14	3
	Illuminance at Center (fc)
9.7	12.9
12.9	16.2
16.2	19.4
19.4	22.7
WATTS: 17	LPW: 61.2
LUMENS: 1040	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	617
5	617
15	604
25	567
35	456
45	176

30M

HE65 64° HIGH EFFICIENCY DIFFUSED LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	55
8	31
10	20
12	14
14	10
	Illuminance at Center (fc)
7.5	10.1
10.1	12.6
12.6	15.1
15.1	17.6
WATTS: 40	LPW: 56.5
LUMENS: 2259	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1964
5	1930
15	1685
25	1303
35	835
45	326

HE80 82° HIGH EFFICIENCY DIFFUSED LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	35
8	20
10	13
12	9
14	6
	Illuminance at Center (fc)
10.4	13.8
13.8	17.3
17.3	20.7
20.7	24.2
WATTS: 40	LPW: 54.9
LUMENS: 2195	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1265
5	1258
15	1200
25	1079
35	855
45	468

D65 66° DIFFUSED WITH CLEAR LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	60
8	34
10	22
12	15
14	11
	Illuminance at Center (fc)
7.7	10.3
10.3	12.9
12.9	15.5
15.5	18.1
WATTS: 40	LPW: 56.7
LUMENS: 2270	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2173
5	2141
15	1894
25	1493
35	897
45	191

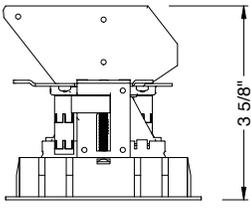
WH75 78° BRILLIANT WHITE WITH CLEAR LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	39
8	22
10	14
12	10
14	7
	Illuminance at Center (fc)
9.7	12.9
12.9	16.2
16.2	19.4
19.4	22.7
WATTS: 40	LPW: 59
LUMENS: 2360	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1400
5	1400
15	1370
25	1286
35	1034
45	399

PROJECT INFORMATION		
JOB NAME	TYPE	
ORDERING CODE		

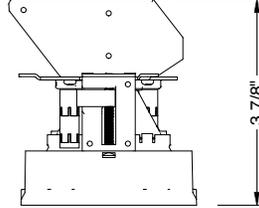
MOUNTING OPTIONS

FIXTURE HEIGHT

10LM - 20LM CONFIGURATION

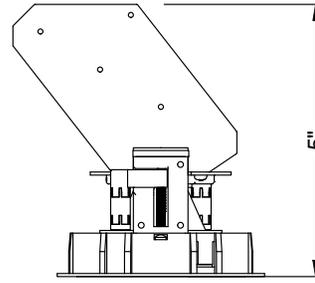


TRIMMED

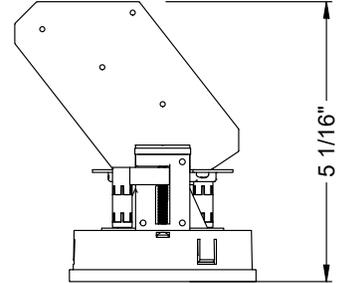


TRIMLESS & MILLWORK

30LM CONFIGURATION



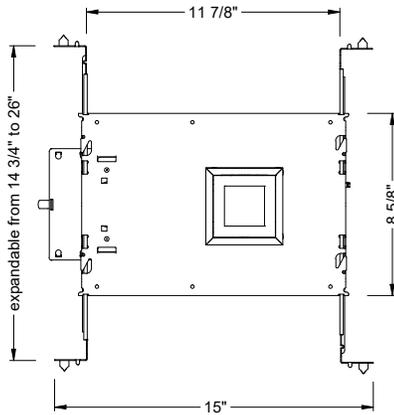
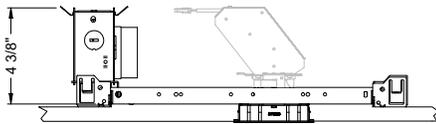
TRIMMED



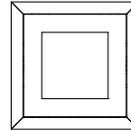
TRIMLESS & MILLWORK

NC - NEW CONSTRUCTION

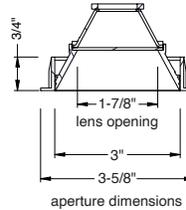
TRIM



TRIM

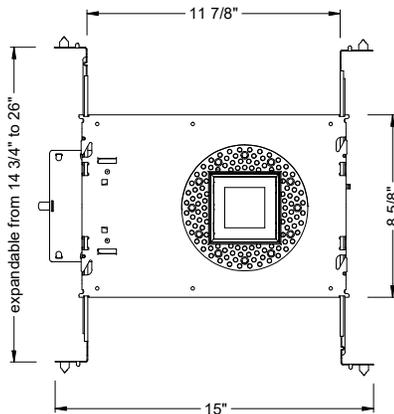
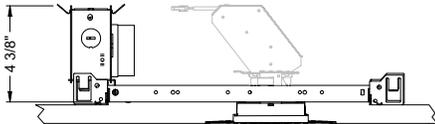


ceiling cutout
3-1/4" square
ceiling thickness
1/8" to 1-1/4"

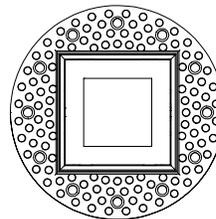


aperture dimensions

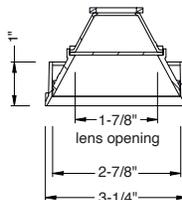
TRIMLESS



TRIMLESS

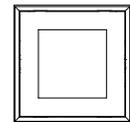


ceiling cutout
3-1/4" square
ceiling thickness
3/8" to 1-3/8"

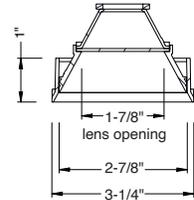


aperture dimensions

TRIMLESS/MILLWORK



ceiling cutout
3-9/32" square
ceiling thickness
3/8" to 1-3/8"

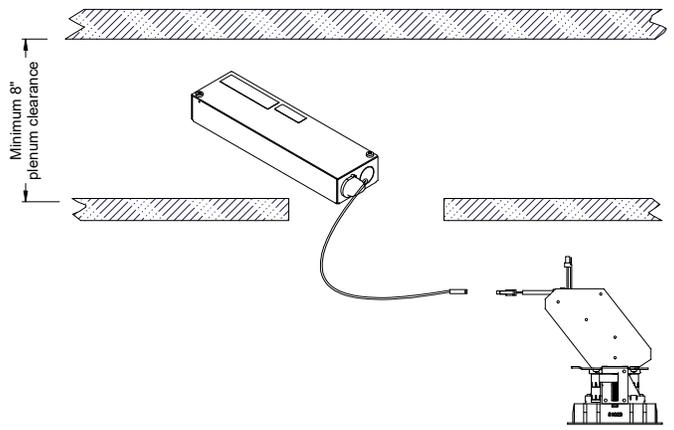


aperture dimensions

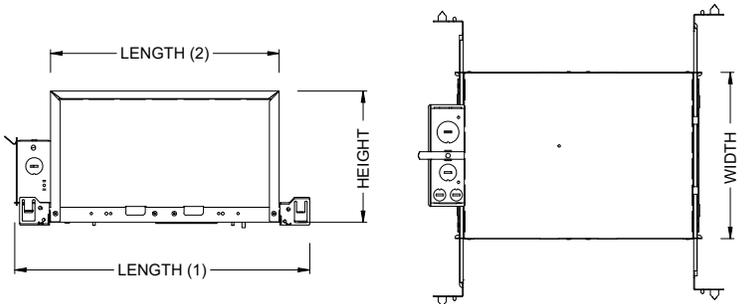
PROJECT INFORMATION		
JOB NAME	TYPE	
ORDERING CODE		

MOUNTING OPTIONS

RET - RETRO TRIM/TRIMLESS



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"

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	✓	✓	✓	✓	✓

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS			
LUMEN OUTPUT	BOX - A		
	IC	ICAT	CP
10LM	✓	✓	✓
13LM	✓	✓	✓
20LM	✓	✓	✓
30LM			

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

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 Luminaires.

REMOTE TEST SWITCH

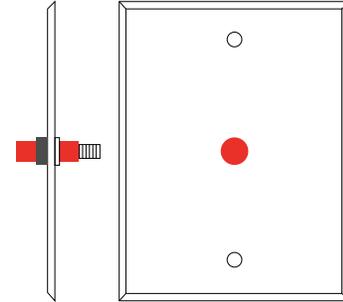
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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.



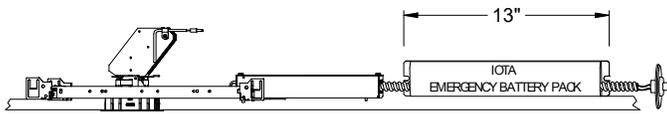
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)

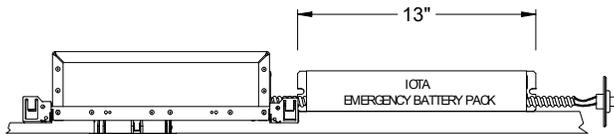
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 30LM)	430LM	615LM	735LM

Notes: Based on 30K, 80CRI

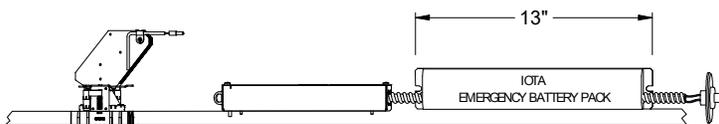
NC - NEW CONSTRUCTION WITH EM BATTERY (REMOTE TEST SWITCH)



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

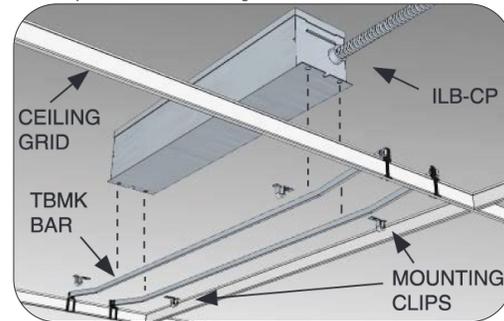


RET - RETROFIT WITH EM BATTERY (REMOTE TEST SWITCH)



Accessory

76066 Optional T-Grid Mounting Kit¹



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