alphabet

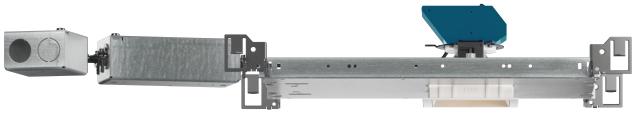
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

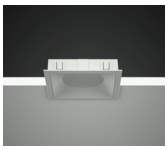
NU3 LOPRO

3" Square Downlight Warm Dim

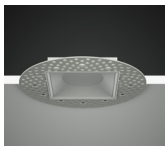
NSF · AT airtight · DF dead-front · PR plenum rated · wet rated

65° - 80° BEAM (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	**NOMINAL DELIVERED LUMENS**	**SYSTEM WATTAGE**
10LM	715LM @30K/97CRI	13W
15LM	1070LM @30K/97CRI	20W
20LM	1430LM @30K/97CRI	27W
Notes	Delivered lumens based on optic with , (see page 2)	





Trim



Trimless



Trimless Millwork

FEATURES
- Thermally optimized for LED longevity
- Double jointed driver box allows for 4" shallow plenum installation
- 3/4" bezel regress with 1/16" micro flange
- UGR <17
- 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%

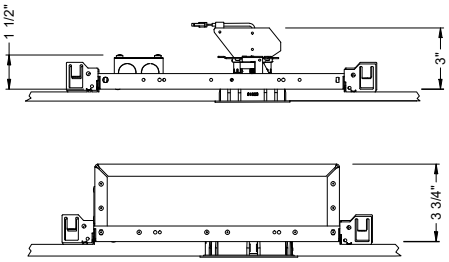
CONSTRUCTION
- Shatter proof acrylic bezel lens
- Lexan™ (PC) Optimal connectivity for wireless control signal
- Impact and chemical resistant at the highest level
- Withstands temperatures up to 240°F.
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/8" to 1-1/4"

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

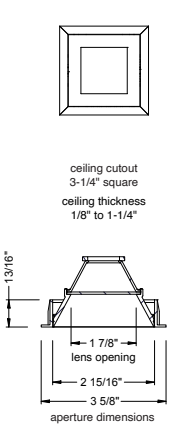
LISTING
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- **Declare.** - LBC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

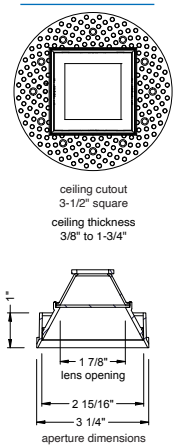
FIXTURE HEIGHT



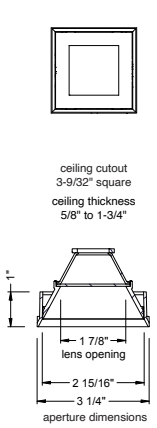
TRIMMED



TRIMLESS



MILLWORK



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

65°- 80° BEAM ORDERING CODE

SERIES	**NU3**	NU3	
TYPE	**QDLP**	square downlight, lopro	
	QDTLP	square downlight, trimless, lopro	
	QDTMWLP	square downlight, trimless, millwork, lopro	
LED	**WD**	warm dim (Luminus)	
DELIVERED LUMENS	**10LM**	715 lm	
	15LM	1070 lm	
	20LM	1430 lm	
	Standard Configuration: HE60 **Calculated Delivered Lumens** = [Delivered Lumen Value] x [Optic Multiplier] x [Lens Multiplier]		
CCT	**3018**	3000K, dim to 1800K	

CCT at Light Level (%LF)

%LF	20LM	15LM	10LM
100%	3000	3000	3000
50%	3000	3000	2800
25%	2800	2500	2300
10%	2200	2000	1900
5%	1800	1800	1800

CRI	**97**	97 CRI	
OPTIC & LM MULTIPLIER SEE PAGE 3	**HE60**	60° high efficiency diffused lens	(1.00)
	HE80	80° high efficiency diffused lens	
	D60	60° diffused with clear lens	(0.91)
	WH70	70° brilliant white with clear lens	(0.90)
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)

65°- 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
	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:

NU3 - QDLP - WD - 15LM - 3018 - 97 - HE60 - WH - WH - NC - 120 - ELV1 - EM7

NOTES

1. NL option available in D60/WH70.
2. NL option does not meet requirement for AT/DF/WET/NSF listings.
3. IC not available in 20LM.
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.

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			

TRIM OPTIONS

TRIM/BEZEL COLORS



WH



MC



BK



BZ



WT

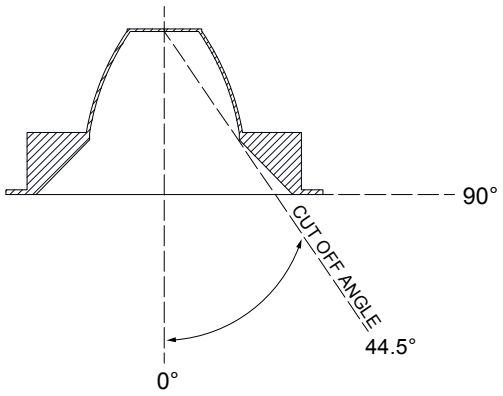
GLARE CONTROL

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 44.5 degrees;



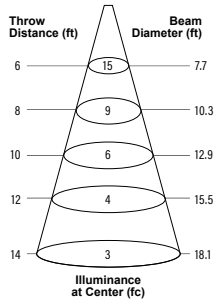
alphabet

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		

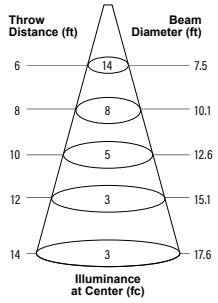
D65 66° DIFFUSED WITH CLEAR LENS



WATTS: 11.1	LPW: 52
LUMENS: 578	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	553
5	545
15	482
25	380
35	228
45	48

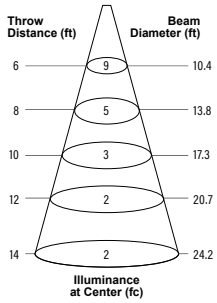
HE65 64° HIGH EFFICIENCY DIFFUSED LENS



WATTS: 11.1	LPW: 51.8
LUMENS: 575	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	500
5	491
15	429
25	332
35	212
45	83

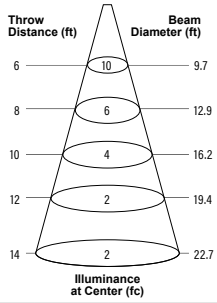
HE80 82° HIGH EFFICIENCY DIFFUSED LENS



WATTS: 11.1	LPW: 50.3
LUMENS: 559	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	322
5	320
15	305
25	274
35	218
45	119

WH75 78° BRILLIANT WHITE WITH CLEAR LENS

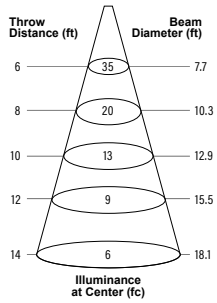


WATTS: 11.1	LPW: 54.1
LUMENS: 601	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	356
5	356
15	349
25	327
35	263
45	101

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		

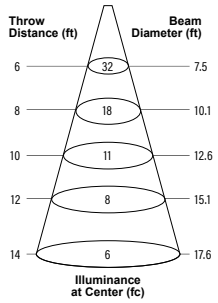
D65 66° DIFFUSED WITH CLEAR LENS



WATTS: 25.8	LPW: 51.3
LUMENS: 1323	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1267
5	1248
15	1104
25	870
35	523
45	111

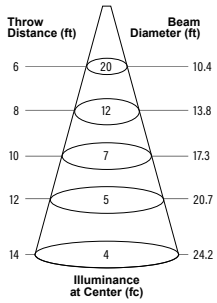
HE65 64° HIGH EFFICIENCY DIFFUSED LENS



WATTS: 25.8	LPW: 51.1
LUMENS: 1317	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1145
5	1125
15	983
25	760
35	487
45	190

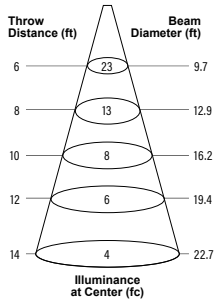
HE80 82° HIGH EFFICIENCY DIFFUSED LENS



WATTS: 25.8	LPW: 49.6
LUMENS: 1280	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	738
5	733
15	699
25	629
35	498
45	273

WH75 78° BRILLIANT WHITE WITH CLEAR LENS



WATTS: 25.8	LPW: 53.3
LUMENS: 1376	CCT: 3000K

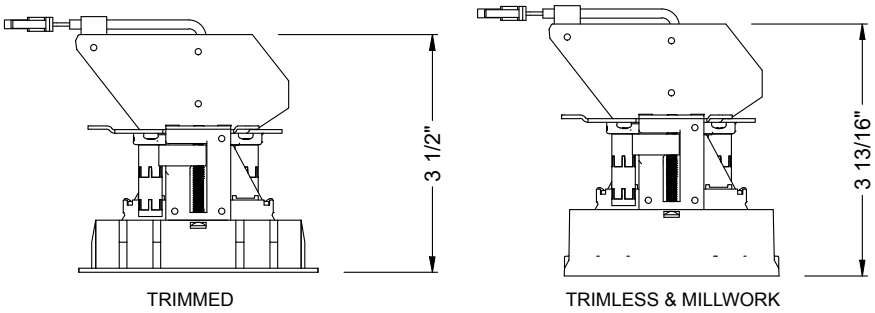
INTENSITY	
DEGREE	CANDELA
0	816
5	816
15	798
25	749
35	603
45	232

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

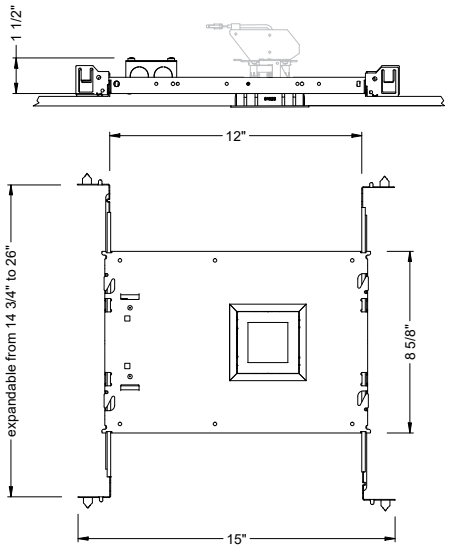
MOUNTING OPTIONS

FIXTURE HEIGHT

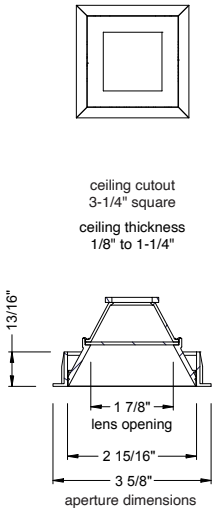


NC - NEW CONSTRUCTION

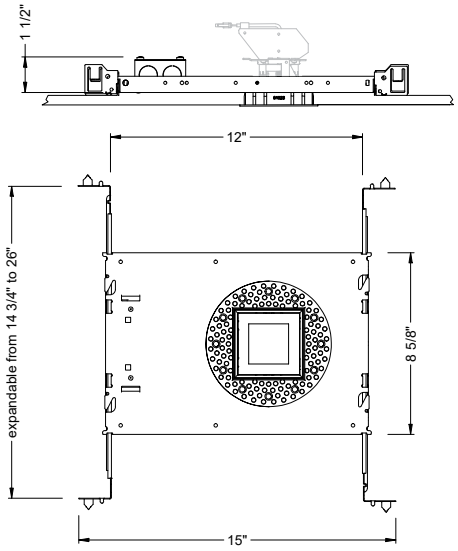
TRIM



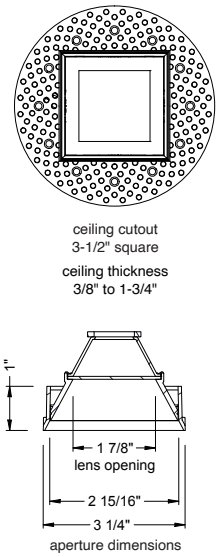
TRIM



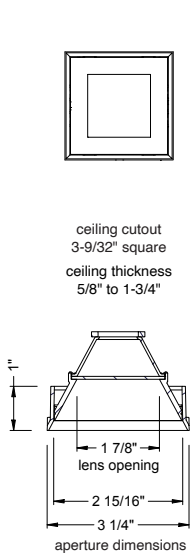
TRIMLESS



TRIMLESS



TRIMLESS/MILLWORK

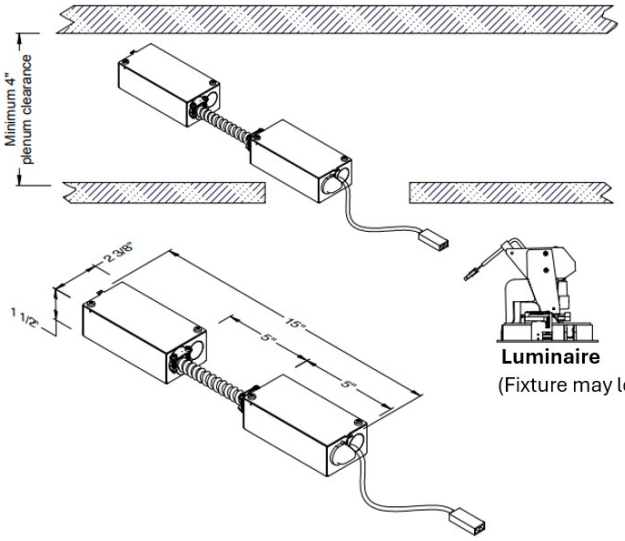


alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS (CONTINUED)

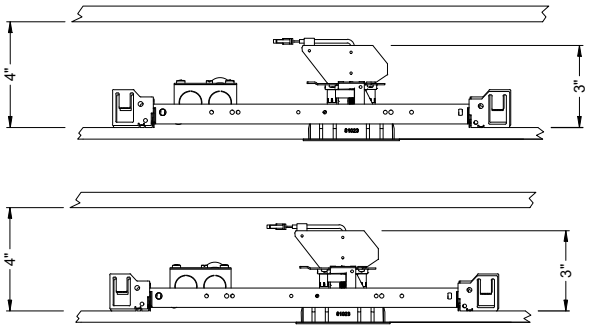
RET - RETRO
TRIM/TRIMLESS



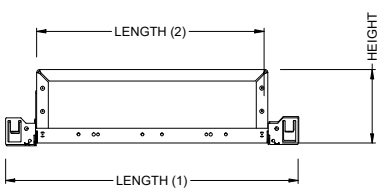
Luminaire
(Fixture may look different)

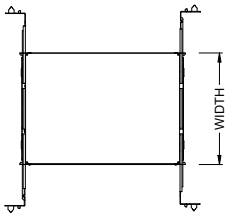
RATINGS / CERTIFICATIONS	NC	RET	IC
TYPE NON-IC	✔	✔	
TYPE IC			✔
CHICAGO PLENUM (CCEA)			
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔	✔	✔

CEILING THICKNESS	
FIXTURE TYPE	MOUNTING TYPE
	NC, IC, RET
	STANDARD CEILING THICKNESS
TRIM	1/8" to 1-1/4"
TRIMLESS	3/8" to 1-3/4"
MILLWORK (TRIMLESS)	1/2" 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 (65° - 80°)	
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

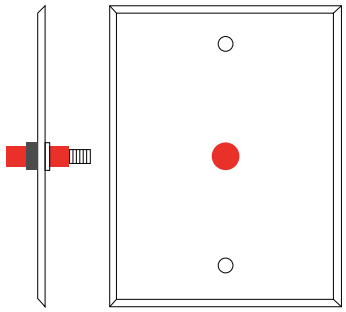
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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

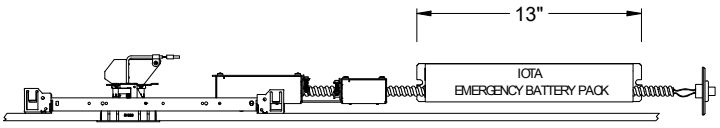
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



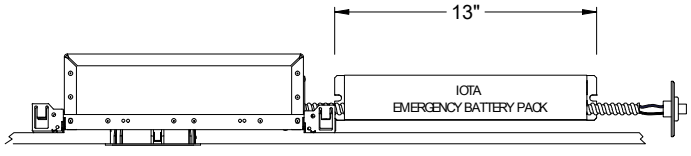
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 20LM)	500 LM	715 LM	860 LM
Notes: Based on 30K, 97CRI			

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

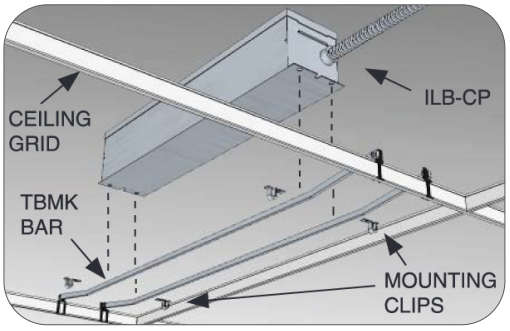


IC - INSULATION CONTACT HOUSING
WITH EM BATTERY (REMOTE TEST SWITCH)



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.