

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## NU3

### 3" Round Adjustable Warm Dim JA8

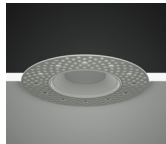


30°-35° BEAM (Note: Specifications are subject to change without notice)		
14mm DYNAMIC COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
20LM	1420LM @30K/97CRI	26W
Notes	Delivered lumens based on 35D optic with clear lens, (see page 2)	

15° - 30° BEAM (Note: Specifications are subject to change without notice)		
9mm DYNAMIC COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	670LM @30K/97CRI	13W
15LM	940LM @30K/97CRI	19W
Notes	Delivered lumens based on 30D optic with clear lens, (see page 2)	



Trim



Trimless



Trimless Millwork

#### FEATURES

- True 30° Tilt with <5% beam disruption (clipping)
- Zero ceiling line obstruction at Full Tilt
- Concentric Tilt Tracking ensures minimal light loss
- 1/16" micro flange
- 15° - 35° optical beam control
- UGR <5
- Multiple mounting, glare control options, trims, and finishes available

#### LED

- Luminus Dim-to-warm COB: 97 CRI; SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L<sub>70</sub> > 54,000 hrs
- Dim to Warm from 3000K - 1800K.

#### DIMMING AND CONTROLS

- Lutron Hi-lumen 2-Wire (Eco System) dimming to 1%
- Leading & trailing edge (Triac/ELV) dimming to 1%

#### 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 Listed, with lens (Non-Food and Splash Zones)
- 5 Year Limited warranty

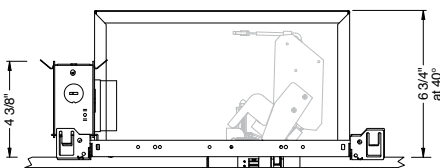
#### CONSTRUCTION

- 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 0.4" to 2.0"

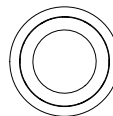
#### ELECTRICAL

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

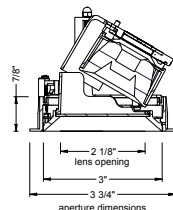
#### FIXTURE HEIGHT



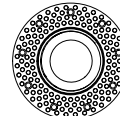
#### TRIMMED



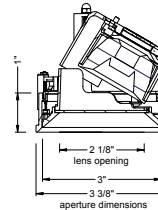
ceiling cutout  
3-3/8" diameter  
ceiling thickness  
0.4" to 1.25"



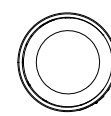
#### TRIMLESS



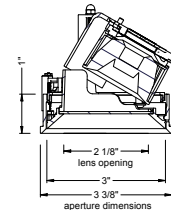
ceiling cutout  
3-1/2" diameter  
ceiling thickness  
0.4" to 1.25"



#### MILLWORK



ceiling cutout  
3-3/8" diameter  
ceiling thickness  
0.5" to 1.25"



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## 15°- 35° BEAM ORDERING CODE

<b>SERIES</b>	<b>NU3</b>	NU3			
<b>TYPE</b>	<b>RA</b> <b>RAT</b> <b>RATMW</b>	round adjustable round adjustable trimless round adjustable trimless millwork			
<b>LED</b>	<b>WD</b>	warm dim (Luminus)			
<b>DELIVERED LUMENS</b>	<b>10LM<sup>1</sup></b>	670 lm			
	<b>15LM<sup>1</sup></b> <b>20LM<sup>2</sup></b>	940 lm 1420 lm			
Standard Configuration: 30D CL Calculated Delivered Lumens = [Delivered Lumen Value] x [Optic Multiplier] x [Lens Multiplier]					
<b>CCT</b>	<b>3018</b>	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
<b>CRI</b>	<b>97</b>	97 CRI			
<b>OPTIC &amp; LM MULTIPLIER</b> SEE PAGE 3	<b>15D</b>	15 degrees	(0.92)		
	<b>25D</b>	25 degrees	(0.96)		
	<b>30D</b>	30 degrees	(1.00)		
	<b>35D</b>	35 degrees	(0.97)		
<b>TIR OPTIC ACCESSORY</b>	<b>NA</b>	no accessory	(1.00)		
<b>BEZEL LENS</b> SEE PAGE 3	<b>CL</b>	clear lens	(1.00)		
	<b>DL</b>	diffused lens	(0.98)		
	<b>HET</b>	high efficiency textured lens, similar to Solite™	(1.00)		
	<b>SBL</b>	smoothing beam lens	(1.00)		
<b>TRIM COLOR</b> SEE PAGE 3	<b>BK</b>	black			
	<b>WH</b>	white			
	<b>MC</b>	matte chrome			
	<b>BZ</b>	bronze			
	<b>WT</b>	wheat			
Not applicable to trimless option. Do not include in trimless ordering code.					
<b>BEZEL COLOR</b> SEE PAGE 3	<b>BK</b>	black			
	<b>WH</b>	white			
	<b>MC</b>	matte chrome			
	<b>BZ</b>	bronze			
	<b>WT</b>	wheat			

## 15°- 35° BEAM ORDERING CODE

<b>MOUNTING OPTIONS</b> SEE PAGE 5	<b>IC</b>	insulation contact housing
<b>VOLTAGE</b>	<b>120 UNV</b>	120V 120V-277V
<b>DIMMING</b>	<b>LUT</b>	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
	<b>ELV1<sup>3</sup></b>	leading & trailing edge (Triac/ELV) dimming to 1%
<b>ELECTRICAL OPTIONS</b>	<b>EM10CA20</b>	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:
<b>NU3 - RA - WD - 20LM - 3018 - 97 - 30D - NA - HET - WH - WH - IC - 120 - ELV1</b>

## NOTES

- 10LM/15LM available with 15D/25D/30D optics.
- 20LM available with 30D/35D optics.
- ELV1 available in 120V.

\*Warm Dim CCT values at X% are for reference. Actual CCT may vary.

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## 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	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

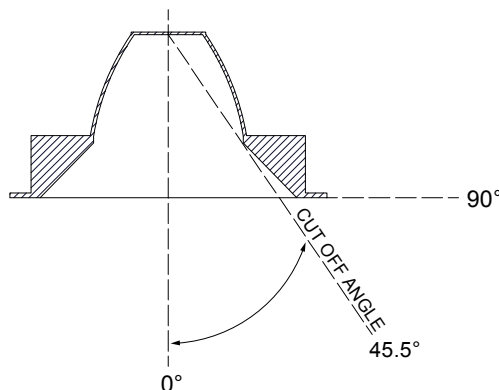
## GLARE CONTROL

### 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 CL is 45.5 degrees;



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## PHOTOMETRIC DATA

### 10LM

**15D  
16° CLEAR LENS**

Throw Distance (ft)	Beam Diameter (ft)
6	1.7
8	2.3
10	2.9
12	3.4
14	4

137  
77  
49  
34  
25  
Illuminance at Center (fc)

WATTS: 13.1	LPW: 47.4
LUMENS: 621	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	4935
5	3758
15	905
25	101
35	10
45	2

**25D  
23° CLEAR LENS**

Throw Distance (ft)	Beam Diameter (ft)
6	2.5
8	3.3
10	4.1
12	4.9
14	5.8

90  
50  
32  
22  
16  
Illuminance at Center (fc)

WATTS: 13.1	LPW: 49.1
LUMENS: 644	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	3228
5	2817
15	1050
25	175
35	22
45	3

**30D  
31° CLEAR LENS**

Throw Distance (ft)	Beam Diameter (ft)
6	3.3
8	4.4
10	5.5
12	6.6
14	7.7

63.9  
36  
23  
16  
11.7  
Illuminance at Center (fc)

WATTS: 13.1	LPW: 50.9
LUMENS: 666	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2301
5	2170
15	1192
25	261
35	19
45	3

### 20LM

**30D  
28° CLEAR LENS**

Throw Distance (ft)	Beam Diameter (ft)
6	3
8	4
10	5
12	6
14	7

139  
78  
50  
35  
25  
Illuminance at Center (fc)

WATTS: 25.3	LPW: 54.5
LUMENS: 1378	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	4991
5	4548
15	2284
25	556
35	78.1
45	12

**35D  
35° CLEAR LENS**

Throw Distance (ft)	Beam Diameter (ft)
6	3.8
8	5
10	6.3
12	7.6
14	8.8

105  
59  
38  
26  
19  
Illuminance at Center (fc)

WATTS: 25.3	LPW: 56.1
LUMENS: 1420	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	3777
5	3602
15	2305
25	785
35	94
45	12

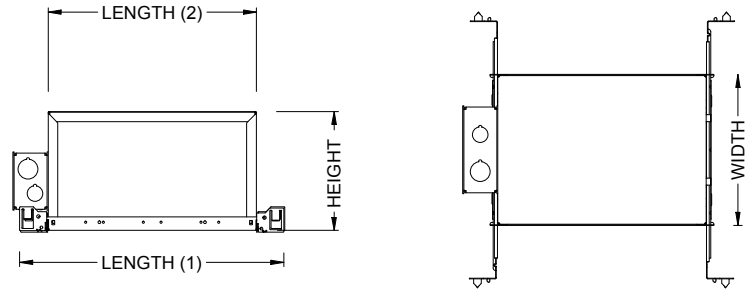
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## MOUNTING OPTIONS

RATINGS / CERTIFICATIONS	IC
TYPE IC	✓
SUITABLE FOR AIR HANDLING PLENUMS	✓
REDUCED AIRFLOW (WITH LENS) ASTM E283	✓

CEILING THICKNESS	
FIXTURE TYPE	MOUNTING TYPE
	STANDARD CEILING THICKNESS
TRIM	0.4" to 1.1"
TRIMLESS	0.4" to 1.1"
MILLWORK (TRIMLESS)	0.5" to 1.1"

## IC - INSULATION CONTACT HOUSING



BOX SIZE	L 1	L 2	W	H
A	15 - 7/16"	11 - 3/4"	8 - 1/2"	6 - 3/4"

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## 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

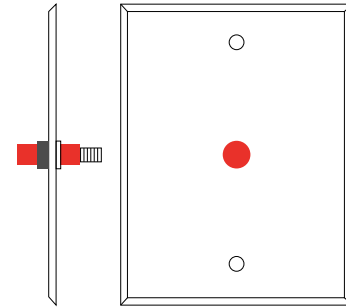
The remote test switch may be mounted adjacent to the LED Fixture by others.

### EMERGENCY BATTERY ACCESS

Above ceiling access is recommended for ease of service, but LED fixture sizes of 4" and larger are capable of below ceiling access.

### 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)	400LM	580LM	720LM
Notes: Based on 30K, 97CRI			

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

