

alphabet

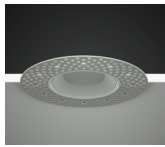
PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

NU3

3" Round Adjustable Standard White JA8



Trim



Trimless



Trimless Millwork

20° - 55° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	740LM @30K/90CRI	9W
15LM	1080LM @30K/90CRI	13W
20LM	1410LM @30K/90CRI	17W
25LM	1710LM @30K/90CRI	22W
Notes	Delivered lumens based on 35D optic with clear 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	730LM @30K/90CRI	11W
15LM	1025LM @30K/90CRI	19W
Notes	Delivered lumens based on 15D optic with clear lens, (see page 2)	



T24 JA8-2022

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° - 55° optical beam control
- UGR <5
- Multiple mounting, glare control options, trims, and finishes available

LED

- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L₇₀ > 66,000 hrs

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

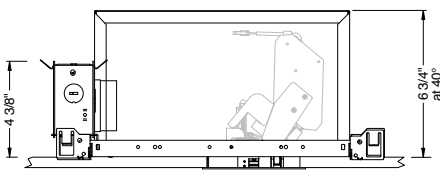
CONSTRUCTION

- 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"

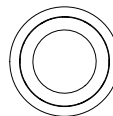
ELECTRICAL

- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 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)

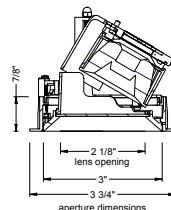
FIXTURE HEIGHT



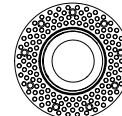
TRIMMED



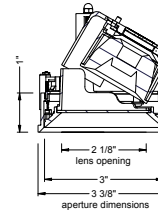
ceiling cutout
3-3/8" diameter
ceiling thickness
0.4" to 1.25"



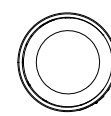
TRIMLESS



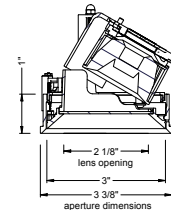
ceiling cutout
3-1/2" diameter
ceiling thickness
0.4" to 1.25"



MILLWORK



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



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PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

15°- 55° BEAM ORDERING CODE

SERIES	NU3	NU3														
TYPE	RA	round adjustable														
	RAT	round adjustable trimless														
	RATMW	round adjustable trimless millwork														
LED	SW	standard white														
DELIVERED LUMENS	10LM	710 lm														
	15LM	1040 lm														
	20LM	1330 lm														
	25LM	1560 lm														
	Standard Configuration: 3000K 35D															
Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Optic Multiplier] x [Lens Multiplier]																
CCT	27K	2700K														
	30K	3000K														
	35K	3500K														
	40K	4000K														
	<table border="1"> <thead> <tr> <th>CCT</th> <th>2700K</th> <th>3000K</th> <th>3500K</th> <th>4000K</th> </tr> </thead> <tbody> <tr> <td>CRI</td> <td>90+</td> <td>90+</td> <td>90+</td> <td>90+</td> </tr> <tr> <td>CCT MULTIPLIER FOR LUMEN OUTPUT</td> <td>0.96</td> <td>1.00</td> <td>1.03</td> <td>1.06</td> </tr> </tbody> </table>		CCT	2700K	3000K	3500K	4000K	CRI	90+	90+	90+	90+	CCT MULTIPLIER FOR LUMEN OUTPUT	0.96	1.00	1.03
CCT	2700K	3000K	3500K	4000K												
CRI	90+	90+	90+	90+												
CCT MULTIPLIER FOR LUMEN OUTPUT	0.96	1.00	1.03	1.06												
CRI	90	90 CRI														
OPTIC & LM MULTIPLIER SEE PAGE 3	15D ¹	15 degrees	(1.05)													
	20D	20 degrees	(0.93)													
	25D	25 degrees	(0.96)													
	35D	35 degrees	(1.00)													
	55D	55 degrees	(0.97)													
TIR OPTIC ACCESSORY	NA	no accessory	(1.00)													
not available																
BEZEL LENS SEE PAGE 3	CL	clear lens	(0.98)													
	DL	diffused lens	(0.91)													
	HET	high efficiency textured lens, similar to Solite™	(0.92)													
	SBL	smoothing beam lens	(0.92)													
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														
	WH	white														
	BZ	bronze														
	MC	matte chrome														
	WT	wheat														

15°- 55° BEAM ORDERING CODE

MOUNTING OPTIONS SEE PAGE 6	IC	insulation contact housing
	VOLTAGE	120 UNV 120V 120V-277V
DIMMING	LUT	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
	ELV1 ²	leading & trailing edge (Triac/ELV) dimming to 1%
ELECTRICAL OPTIONS	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 - RA - SW - 20LM - 35K - 90 - 35D - NA - HET - WH - WH - IC - 120 - ELV1

NOTES

- 15D only available in 10LM/15LM. Not available with DL lens options.
- ELV1 (120V) not available in 10LM with 20D/25D/35D/55D optics.

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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
15D	13.7	≤5
20D	20.1	≤5
25D	25.5	≤5
35D	34.4	7.5
55D	52.9	14



OPTIC	BEAM ANGLE	UGR
20D	38.3	15.7
25D	41.5	17.2
35D	45	18.2
55D	57.8	20.9



OPTIC	BEAM ANGLE	UGR
20D	24.9	≤5
25D	28.7	8.8
35D	34	9.9
55D	51.6	15.7



OPTIC	BEAM ANGLE	UGR
9D*	9.5	8.2
15D	17	≤5
20D	21	≤5
25D	26.5	6.3
35D	33.3	8.1
55D	52.8	14.8

* UGR Calculation based on 10LM for 9D.

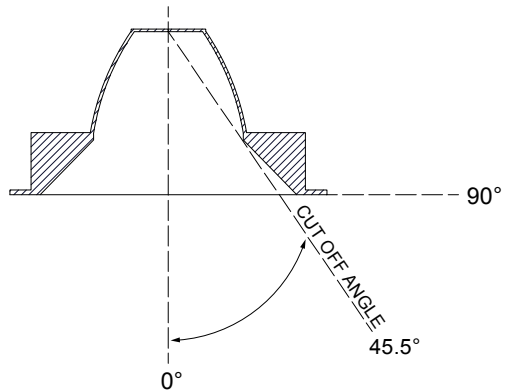
GLARE CONTROL

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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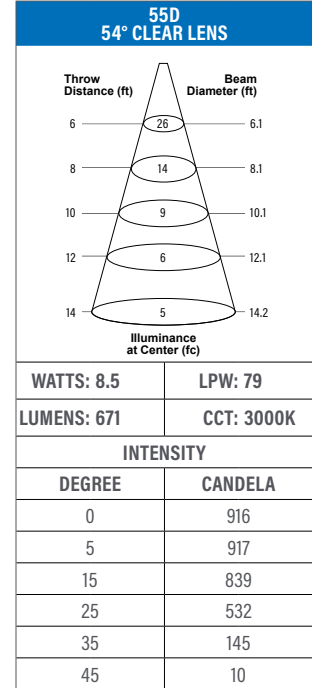
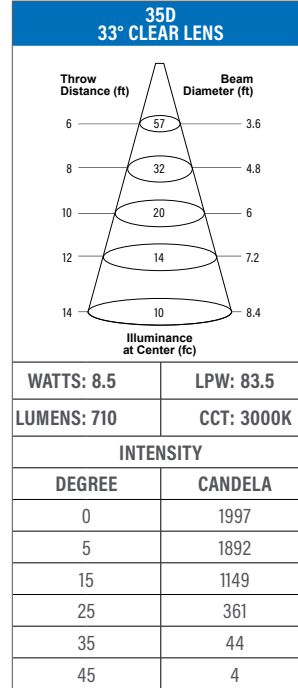
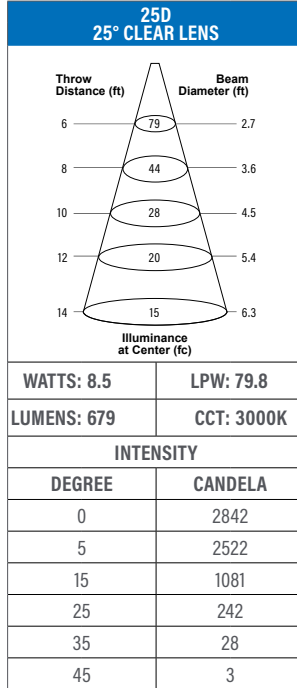
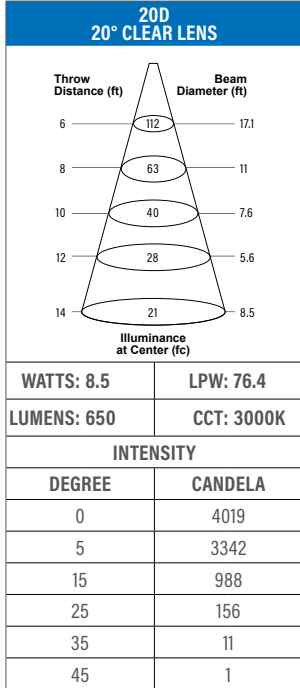
PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

PHOTOMETRIC DATA

10LM CCT MULTIPLIERS

	90CRI
2700K	0.81
3000K	0.85
3500K	0.88
4000K	0.91

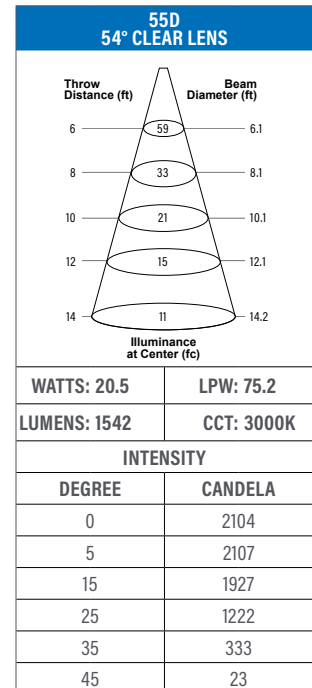
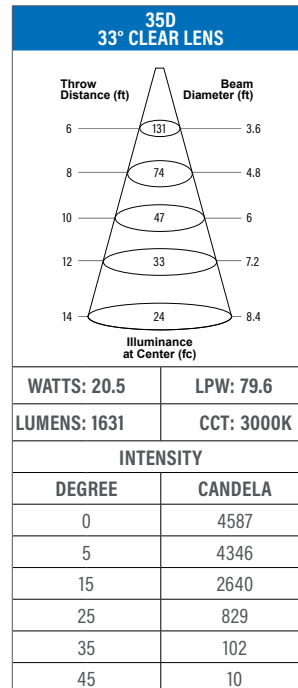
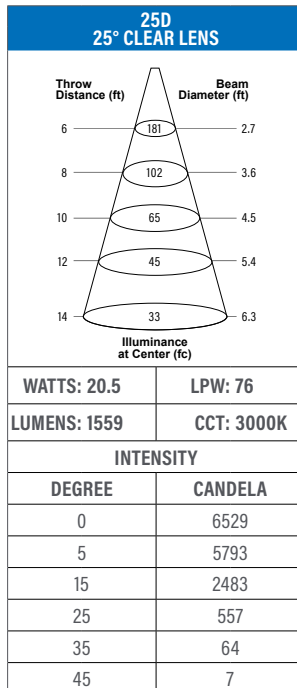
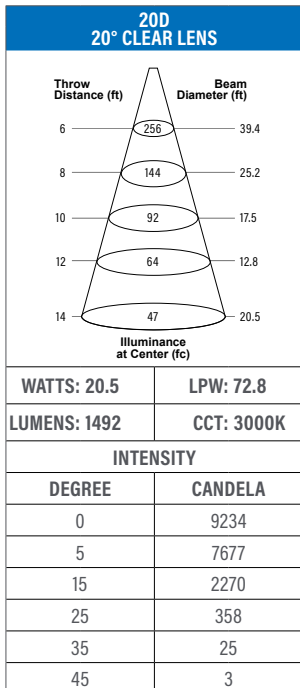
FC Formula = CBCP / Distance²



25LM CCT MULTIPLIERS

	90CRI
2700K	0.81
3000K	0.85
3500K	0.88
4000K	0.91

FC Formula = CBCP / Distance²



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PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

PHOTOMETRIC DATA (CONTINUED)

10LM CCT MULTIPLIERS	
	90CRI
2700K	0.81
3000K	0.85
3500K	0.88
4000K	0.91
FC Formula = CBCP / Distance ²	

15D 13.6° CLEAR LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	233
8	131
10	84
12	58
14	43
Illuminance at Center (fc)	
WATTS: 11.5	LPW: 60
LUMENS: 690	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	8378
5	5703
15	760
25	52
35	6
45	1

15LM CCT MULTIPLIERS	
	90CRI
2700K	0.81
3000K	0.85
3500K	0.88
4000K	0.91
FC Formula = CBCP / Distance ²	

15D 13.6° CLEAR LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	327
8	184
10	118
12	82
14	60
Illuminance at Center (fc)	
WATTS: 19	LPW: 51.1
LUMENS: 971	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	11789
5	8025
15	1069
25	74
35	9
45	1

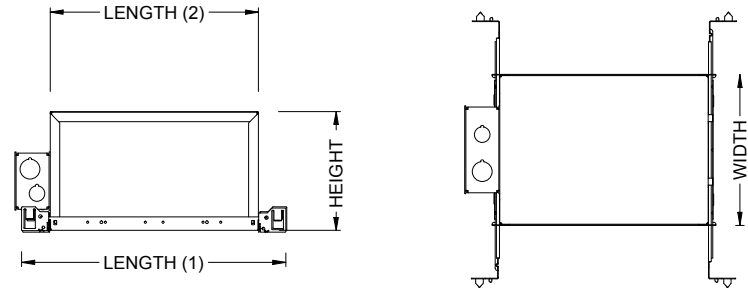
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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"

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

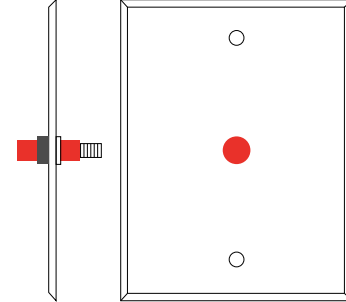
The remote test switch may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS

Above ceiling access is required for ease of service.

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 40LM)	880LM	1280LM	1480LM
Notes: Based on 30K, 80CRI			

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

