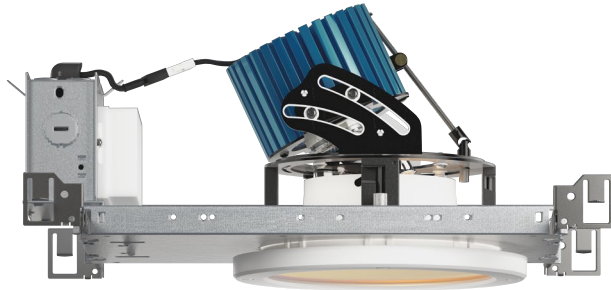


# alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## NU6

### 6" Round Adjustable Tamper Resistant Standard White



30° - 70° BEAM (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	800LM @30K/80CRI	9W
15LM	1100LM @30K/80CRI	14W
20LM	1520LM @30K/80CRI	17W
25LM	1830LM @30K/80CRI	20W
30LM	2280LM @30K/80CRI	26W
40LM	2900LM @30K/80CRI	32W
10LM	676LM @30K/80CRI	9W
15LM	930LM @30K/80CRI	14W
20LM	1267LM @30K/80CRI	17W
25LM	1830LM @30K/80CRI	20W
30LM	1546LM @30K/80CRI	26W
40LM	2450LM @30K/80CRI	32W
Notes	Delivered lumens based on SS30 80CRI 3000K (see page 2)	

10° 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	1220LM @30K/80CRI	19W
20LM	1550LM @30K/80CRI	31W
10LM	730LM @30K/90CRI	11W
15LM	1025LM @30K/90CRI	19W
20LM	1310LM @30K/90CRI	31W
Notes	Delivered lumens based on S10 80CRI 3000K (see page 2)	



#### FEATURES

- Designed to meet NYS-OMH rigorous requirements
- Spun aluminum frame with stainless steel tamper resistant screws
- Polycarbonate (3mm) shatter proof lensing
- Zero ceiling line obstruction as Full Tilt
- Concentric Tilt Tracking ensures minimal light loss
- 10° to 70° optical beam control
- UGR <12
- Antimicrobial (Microban) painted finishes

#### DIMMING AND CONTROLS

- eldoLED flicker free 0-10V dimming to 0% and 1%
- eldoLED flicker free DALI dimming to 0% and 1%
- DMX dim to zero
- 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

- Aluminum 6061 lensing frame
- 18-8 stainless steel tamper resistant screws
- Shatter resistant Polycarbonate (PC) lensing
- Electrocoated 16-gauge cold rolled steel construction
- Accommodates ceiling thickness from 1/8" to 1-5/8"

#### 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

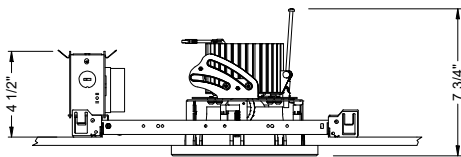
#### LISTING

- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- NYSOMH - New York State Office of Mental Health compliant
- 5 Year Limited warranty

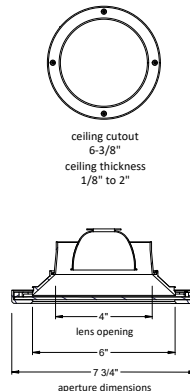
#### ELECTRICAL

- 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



#### TAMPER RESISTANT



# alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## 10° - 70° BEAM ORDERING CODE

<b>SERIES</b>	NU6	NU6	
<b>TYPE</b>	RATR	round adjustable tamper resistant	
<b>LED</b>	SW	standard white	
<b>DELIVERED LUMENS</b>	10LM	800 lm	
	15LM	1100 lm	
	20LM	1520 lm	
	25LM	1830 lm	
	30LM	2280 lm	
	40LM	2900 lm	
Standard Configuration: 3000K 80CRI SS30 Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]			
<b>CCT</b>	27K	2700K	
	30K	3000K	
	35K	3500K	
	40K	4000K	
<b>CRI</b>	80	80 CRI	
	90	90 CRI	
<b>OPTIC &amp; LM MULTIPLIER</b> SEE PAGE 3	HE45	45° high efficiency diffused lens	(0.92)
	HE60	60° high efficiency diffused lens	(0.91)
	HE75	75° high efficiency diffused lens	(0.84)
	S10	10° specular with clear lens	(1.09)
	SS30	30° semi-specular	(1.00)
	SS45	45° semi-specular	(0.89)
	SS60	60° semi-specular	(0.98)
	D40	40° diffused	(0.93)
	D50	50° diffused	(0.94)
D65	65° diffused	(0.93)	
<b>TRIM COLOR</b> SEE PAGE 3	BK	black	
	WH	white	
	MC	matte chrome	
Antimicrobial finish, add <b>AM</b> to black, white or matte chrome i.e. BKAM.			
Includes shatter proof lens and tamper resistant screws.			
<b>BEZEL COLOR</b> SEE PAGE 3	BK	black	(0.98)
	WH	white	(1.00)
	MC	matte chrome	(0.99)
	Antimicrobial finish, add <b>AM</b> to black, white or matte chrome i.e. BKAM.		

## 10° - 70° BEAM ORDERING CODE

<b>MOUNTING OPTIONS</b> SEE PAGE 6, 7	NC	new construction with ceiling fitting plate
	RET	retrofit, no ceiling fitting plate
<b>VOLTAGE</b>	120	120V
	UNV	120V-277V
<b>DIMMING</b>	DIM10	eldoLED flicker free 0-10V dimming to 1%
	DIM10Z	eldoLED flicker free 0-10V dimming to 0%
	DALI	eldoLED flicker free DALI 2 dimming to 1%
	DALIZ	eldoLED flicker free DALI 2 dimming to 0%
	DMXZ	DMX dim to zero
	LUT	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
	LUTP <sup>1</sup>	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELV1 <sup>2</sup>	leading & trailing edge (Triac/ELV) dimming to 1%
NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dim to off	
CAS	Casambi Bluetooth control with flicker free 1% dimming	
<b>ELECTRICAL OPTIONS</b>	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:
<b>NU6 - RATR - SW - 20LM - 35K - 90 - D40 - WH - NC - UNV - DIM10</b>

## NOTES

- LUTP not available in 25LM/30LM/40LM.
- ELV1 (120V) 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 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
S10	9.2	11.3
HE40	40.4	14.6
HE60	55.8	16.9
HE70	74.1	19.4
SS30	30.5	10.7
SS40	39.1	13.4
SS60	53.3	13.5
D40	39.3	10.9
D60	57.8	14.2
WH70	71.4	17.3

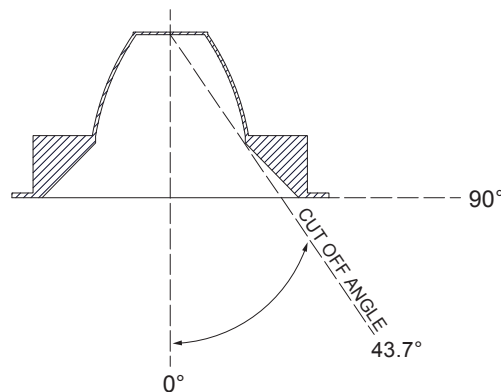
## GLARE CONTROL

### 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 and CL is 43.7 degrees;



# alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

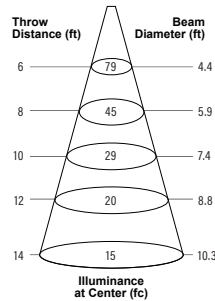
## PHOTOMETRIC DATA

### 20LM CCT MULTIPLIERS

	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91

$$FC \text{ Formula} = CBCP / \text{Distance}^2$$

### HE40 40° HIGH EFFICIENCY DIFFUSED LENS

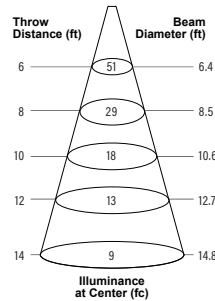


WATTS: 20	LPW: 91
LUMENS: 1819	CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	2858
5	2734
15	1930
25	1035
35	491
45	210

### HE60 56° HIGH EFFICIENCY DIFFUSED LENS

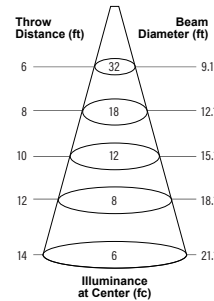


WATTS: 20	LPW: 91.3
LUMENS: 1826	CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	1831
5	1788
15	1493
25	1048
35	624
45	308

### HE70 74° HIGH EFFICIENCY DIFFUSED LENS

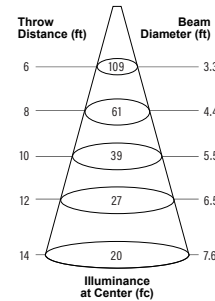


WATTS: 20	LPW: 86.2
LUMENS: 1724	CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	1151
5	1138
15	1038
25	854
35	624
45	389

### SS30 31° SEMI-SPECULAR WITH CLEAR LENS



WATTS: 20	LPW: 80.1
LUMENS: 1601	CCT: 3000K

#### INTENSITY

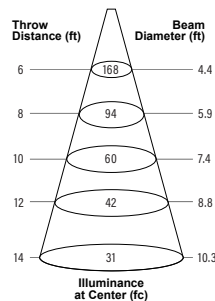
DEGREE	CANDELA
0	3906
5	3605
15	1993
25	993
35	314
45	35

### 40LM CCT MULTIPLIERS

	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91

$$FC \text{ Formula} = CBCP / \text{Distance}^2$$

### HE40 40° HIGH EFFICIENCY DIFFUSED LENS

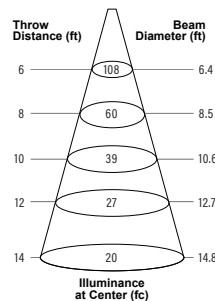


WATTS: 43	LPW: 89.4
LUMENS: 3843	CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	6038
5	5776
15	4077
25	2186
35	1037
45	444

### HE60 56° HIGH EFFICIENCY DIFFUSED LENS

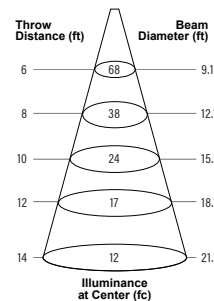


WATTS: 43	LPW: 89.7
LUMENS: 3857	CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	3869
5	3778
15	3154
25	2214
35	1319
45	650

### HE70 74° HIGH EFFICIENCY DIFFUSED LENS

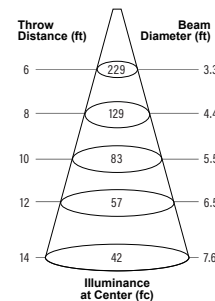


WATTS: 43	LPW: 84.7
LUMENS: 3642	CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	2431
5	2403
15	2193
25	1805
35	1319
45	822

### SS30 31° SEMI-SPECULAR WITH CLEAR LENS



WATTS: 43	LPW: 78.7
LUMENS: 3382	CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	8251
5	7616
15	4210
25	2097
35	664
45	73

# alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

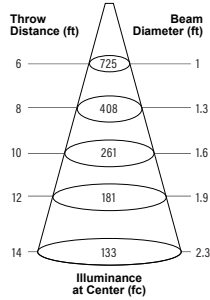
## PHOTOMETRIC DATA (CONTINUED)

### 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<sup>2</sup>

### S10 10° SPECULAR WITH CLEAR LENS



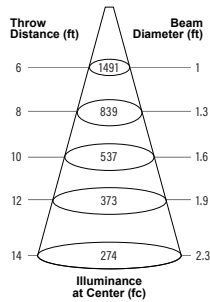
WATTS: 16.3	LPW: 91.7
LUMENS: 1494	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	26099
5	11653
15	663
25	540
35	417
45	9

### 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<sup>2</sup>

### S10 10° SPECULAR WITH CLEAR LENS



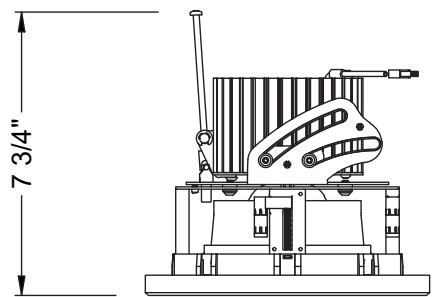
WATTS: 40.8	LPW: 75.3
LUMENS: 3073	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	53667
5	23961
15	1362
25	1110
35	857
45	19

# alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

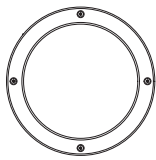
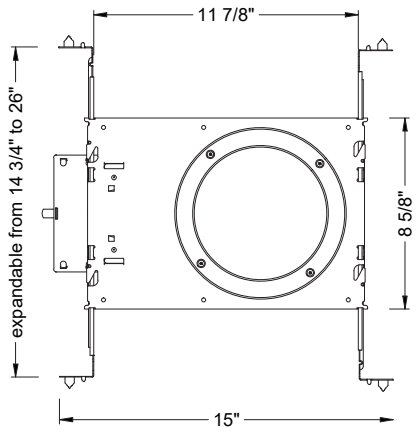
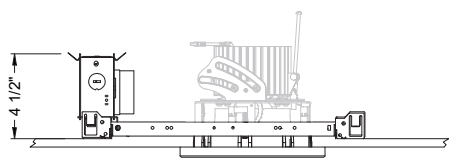
## MOUNTING OPTIONS

### FIXTURE HEIGHT

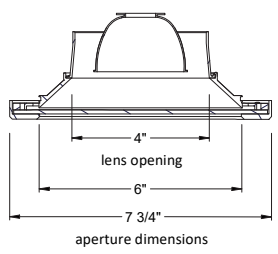


### NC - NEW CONSTRUCTION

#### TAMPER RESISTANT



ceiling cutout  
6-3/8"  
ceiling thickness  
1/8" to 2"



aperture dimensions

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 electric 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

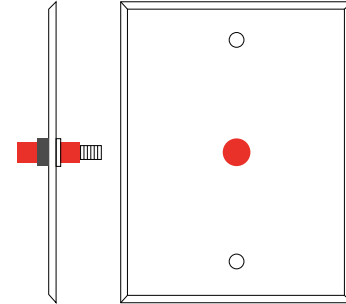
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

### EMERGENCY BATTERY ACCESS

Above ceiling access is 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 40LM)	634LM	880LM	990LM
Notes: Based on 30K, 80CRI			

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

