

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## NU6

### 6" Round Downlight Tamper Resistant Standard White

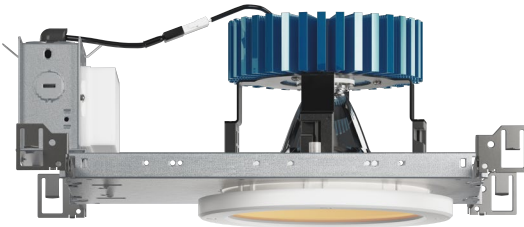


AT  
airtight

DF  
dead-front

PR  
plenum rated

wet rated



30° - 65° BEAM (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	760LM @30K/80CRI	9W
15LM	1100LM @30K/80CRI	14W
20LM	1500LM @30K/80CRI	16W
25LM	1840LM @30K/80CRI	20W
30LM	2270LM @30K/80CRI	26W
40LM	3050LM @30K/80CRI	32W
10LM	640LM @30K/90CRI	9W
15LM	930LM @30K/90CRI	14W
20LM	1270LM @30K/90CRI	16W
25LM	1550LM @30K/90CRI	20W
30LM	1910LM @30K/90CRI	26W
40LM	2580LM @30K/90CRI	32W
Notes	Delivered lumens based on SS45 80CRI 3000K (see page 3)	

eldoLED  
your product your drive



CASAMBI



#### FEATURES

- Designed to meet NYS-OMH rigorous requirements
- Spun aluminum frame with stainless steel tamper resistant screws
- Polycarbonate (3mm) shatter proof lensing
- Optical beam control 30° to 65°
- 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 = 3-step MacAdam Ellipse, Lumen Maintenance: L<sub>70</sub> > 66,000 hrs

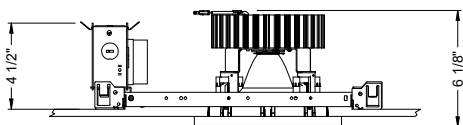
#### LISTING

- 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

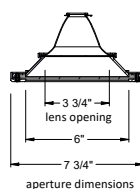
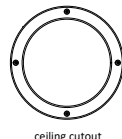
#### ELECTRICAL

- 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

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## 30°- 65° BEAM ORDERING CODE

<b>SERIES</b>	<b>NU6</b>	NU6																											
<b>TYPE</b>	<b>RDTR</b>	round downlight tamper resistant																											
<b>LED</b>	<b>SW</b>	standard white																											
<b>DELIVERED LUMENS</b>	<b>10LM</b>	760 lm																											
	<b>15LM</b>	1100 lm																											
	<b>20LM</b>	1500 lm																											
	<b>25LM</b>	1840 lm																											
	<b>30LM</b>	2270 lm																											
	<b>40LM</b>	3050 lm																											
Standard Configuration: 3000K 80CRI SS45 Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]																													
<b>CCT</b>	<b>27K</b>	2700K																											
	<b>30K</b>	3000K																											
	<b>35K</b>	3500K																											
	<b>40K</b>	4000K																											
<table border="1"> <thead> <tr> <th>CCT</th> <th colspan="2">2700K</th> <th colspan="2">3000K</th> <th colspan="2">3500K</th> <th colspan="2">4000K</th> </tr> <tr> <th>CRI</th> <th>80+</th> <th>90+</th> <th>80+</th> <th>90+</th> <th>80+</th> <th>90+</th> <th>80+</th> <th>90+</th> </tr> </thead> <tbody> <tr> <td>CCT MULTIPLIER FOR LUMEN OUTPUT</td> <td>0.96</td> <td>0.81</td> <td>1.00</td> <td>0.85</td> <td>1.03</td> <td>0.88</td> <td>1.06</td> <td>0.91</td> </tr> </tbody> </table>			CCT	2700K		3000K		3500K		4000K		CRI	80+	90+	80+	90+	80+	90+	80+	90+	CCT MULTIPLIER FOR LUMEN OUTPUT	0.96	0.81	1.00	0.85	1.03	0.88	1.06	0.91
CCT	2700K		3000K		3500K		4000K																						
CRI	80+	90+	80+	90+	80+	90+	80+	90+																					
CCT MULTIPLIER FOR LUMEN OUTPUT	0.96	0.81	1.00	0.85	1.03	0.88	1.06	0.91																					
<b>CRI</b>	<b>80</b>	80 CRI																											
	<b>90</b>	90 CRI																											
<b>OPTIC &amp; LM MULTIPLIER</b> SEE PAGE 3	<b>HE45</b>	45° high efficiency diffused lens	(0.92)																										
	<b>HE60</b>	60° high efficiency diffused lens	(0.92)																										
	<b>HE75</b>	75° high efficiency diffused lens	(0.84)																										
	<b>SS30</b>	30° semi-specular with clear lens	(1.00)																										
	<b>SS45</b>	45° semi-specular with clear lens	(1.00)																										
	<b>SS60</b>	60° semi-specular with clear lens	(1.02)																										
	<b>D40</b>	40° diffused with clear lens	(0.97)																										
	<b>D50</b>	50° diffused with clear lens	(0.98)																										
	<b>D65</b>	65° diffused with clear lens	(0.99)																										
<b>TRIM COLOR</b> SEE PAGE 3	<b>BK</b>	black																											
	<b>WH</b>	white																											
	<b>MC</b>	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	<b>BK</b>	black	(0.98)																										
	<b>WH</b>	white	(1.00)																										
	<b>MC</b>	matte chrome	(0.99)																										
Antimicrobial finish, add <b>AM</b> to black, white or matte chrome i.e. BKAM.																													

## 30°- 65° BEAM ORDERING CODE

<b>MOUNTING OPTIONS</b> SEE PAGE 5, 6	<b>NC</b>	new construction with ceiling fitting plate
<b>VOLTAGE</b>	<b>120</b> <b>UNV</b>	120V 120V-277V
<b>DIMMING</b>	<b>DIM10</b>	eldoLED flicker free 0-10V dimming to 1%
	<b>DIM10Z</b>	eldoLED flicker free 0-10V dimming to 0%
	<b>DALI</b>	eldoLED flicker free DALI 2 dimming to 1%
	<b>DALIZ</b>	eldoLED flicker free DALI 2 dimming to 0%
	<b>DMXZ</b>	DMX dim to zero
	<b>LUT</b>	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
	<b>LUTP<sup>1</sup></b>	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	<b>ELV<sup>2</sup></b>	leading & trailing edge (Triac/ELV) dimming to 1%
	<b>NLT</b>	nLight control interface: standard Cat-5/RJ45 connection (female), dim to off
	<b>CAS</b>	Casambi Bluetooth control with flicker free 1% dimming
<b>ELECTRICAL OPTIONS</b>	<b>EM7</b>	emergency battery backup, 90 minutes at 7W to LED
	<b>EM12</b>	emergency battery backup, 90 minutes at 12W to LED
	<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>NU6 - RATR - SW - 20LM - 35K - 90 - D40 - WH - NC - UNV - DIM10</b>

## NOTES

- LUTP not available in 25LM/30LM/40LM.
- ELVI (120V) not available in 10LM.

\*EldoLED uses logarithmic dimming curve as standard. For linear dimming curve add "LIN" after dimming code, i.e. DIM10LIN.

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## 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
SS30	30.6	11.7
SS45	45.1	13.2
SS60	60.2	13.9
D40	41.9	15.7
D50	48.5	13.6
D65	64.1	15.6
HE45	44.7	16.3
HE60	60.3	17.4
HE75	76.8	21.6

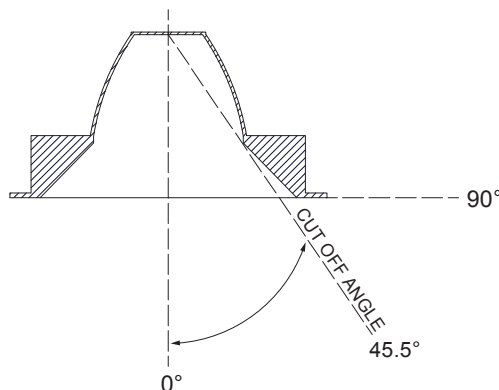
## GLARE CONTROL

### 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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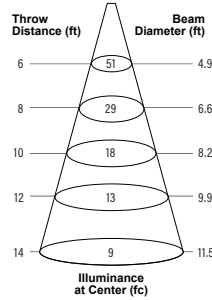
## PHOTOMETRIC DATA

### 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>

### HE45 45° HIGH EFFICIENCY DIFFUSED LENS



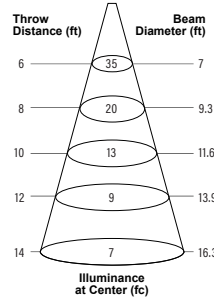
WATTS: 16.1      LPW: 86.3

LUMENS: 1389      CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	1846
5	1779
15	1331
25	789
35	407
45	185

### HE60 60° HIGH EFFICIENCY DIFFUSED LENS



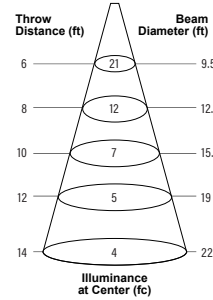
WATTS: 16.1      LPW: 85.7

LUMENS: 1380      CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	1277
5	1257
15	1101
25	813
35	480
45	223

### HE75 76° HIGH EFFICIENCY DIFFUSED LENS



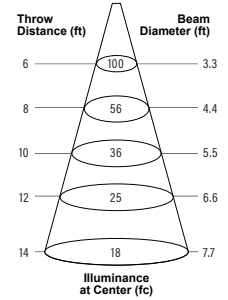
WATTS: 16.1      LPW: 78.6

LUMENS: 1265      CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	747
5	740
15	685
25	574
35	426
45	278

### SS30 31° SEMI-SPECULAR



WATTS: 16.1      LPW: 93.3

LUMENS: 1502      CCT: 3000K

#### INTENSITY

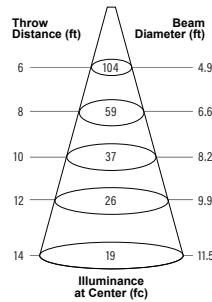
DEGREE	CANDELA
0	3600
5	3337
15	1836
25	914
35	379
45	27

### 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 Formula = CBCP / Distance<sup>2</sup>

### HE45 45° HIGH EFFICIENCY DIFFUSED LENS



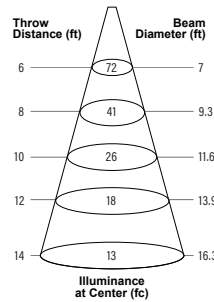
WATTS: 32.8      LPW: 86

LUMENS: 2821      CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	3748
5	3612
15	2703
25	1602
35	826.6
45	376

### HE60 60° HIGH EFFICIENCY DIFFUSED LENS



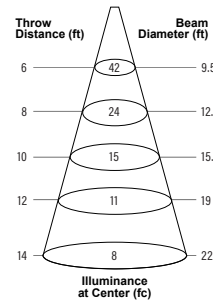
WATTS: 32.8      LPW: 85.4

LUMENS: 2802      CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	2593
5	2553
15	2235
25	1651
35	975
45	453

### HE75 76° HIGH EFFICIENCY DIFFUSED LENS



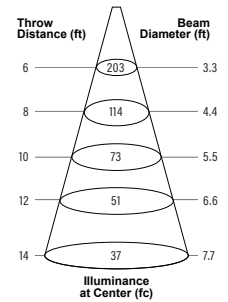
WATTS: 32.8      LPW: 78.3

LUMENS: 2570      CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	1516
5	1502
15	1390
25	1165
35	865
45	564

### SS30 31° SEMI-SPECULAR



WATTS: 32.8      LPW: 93

LUMENS: 3050      CCT: 3000K

#### INTENSITY

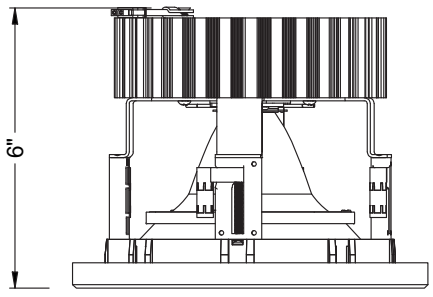
DEGREE	CANDELA
0	7311
5	6775
15	3729
25	1856
35	771
45	55

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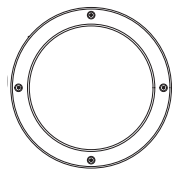
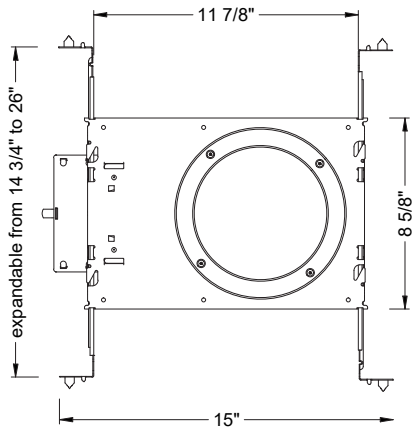
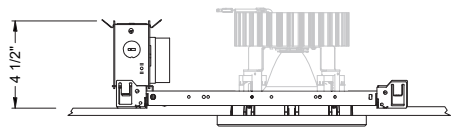
## MOUNTING OPTIONS

### FIXTURE HEIGHT

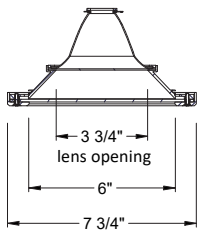


### NC - NEW CONSTRUCTION

#### TAMPER RESISTANT



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



aperture dimensions

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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 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

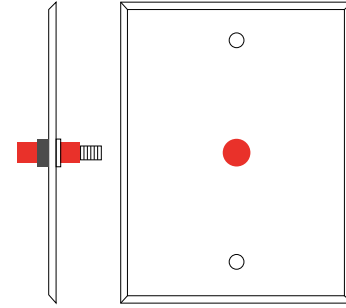
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

### 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)	490LM	570LM	790LM
Notes: Based on 30K, 80CRI			

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

