

PROJECT INFORMATION					
JOB NAME		TYPE			
ORDERING CODE					

WATTAGE

12W

17W

26W

31W

12W

26W

31W

20° -65° BEAM

(Note: Specifications are subject to change without notice) 14mm COB PERFORMANCE DATA

990LM @30K/80CRI

1490LM @30K/80CRI

2095LM @30K/80CRI

2540LM @30K/80CRI

3090LM @30K/80CRI

3590LM @30K/80CRI

4180LM @30K/80CRI

840LM @30K/90CRI

1270LM @30K/90CRI

1780LM @30K/90CRI

2160LM @30K/90CRI

2630LM @30K/90CRI

3050LM @30K/90CRI

3550LM @30K/90CRI

Delivered lumens based on 25D

optic with no lens, (see page 2)

NOMINAL DELIVERED | SYSTEM LUMENS

**LED LIGHT** 

**ENGINE** 

10LM

15LM

**20LM** 

25LM

30LM

35LM

**40LM** 

10LM

15LM

**20LM** 

25LM

30LM

35LM

**40LM** 

Notes

## NU6

### **6" Square Adjustable Standard White**















Zero ceiling line obstruction at Full Tilt

■ 20° - 65° optical beam control

**= UGR < 10** 

finishes available

painted surfaces

> 66,000 hrs

> 66,000 hrs

True 30° Tilt with <6% beam disruption (clipping)</li>

• Concentric Tilt Tracking ensures minimal light loss

- Glare control, specialty optics, trim options, and custom

· Microban° antimicrobial finish available on all exposed

#### **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-lume Eco System dimming to 0.1% and 1.%
- Lutron athena wireless node
- Leading & trailing edge (Triac/ELV) dimming to 1%
- Casambi dimming to 1.0%
- NLight control interface dimming to 0%

#### CONSTRUCTION

- Lexan™ (PC) highly resistant to impact and heat (240°F)
- Optimal material for wireless signal connectivity
- Shatter proof acrylic bezel lens
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/8" to 1-5/8"

#### **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  $\ge 0.9$
- 2kV driver input surge protection
- Remote and Integral (ITS) emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)

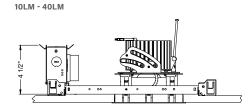
v.7.11.25

• Low Voltage Luminaire option, see page 7.

#### **FIXTURE HEIGHT**

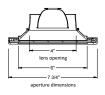
90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L<sub>70</sub>

■ 80 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L<sub>70</sub>



#### TRIMMED





Alphabet by Ledra Brands, Inc. | 88 Maxwell Irvine, CA 92618 | PH: 714.259.9959 FAX: 714.259.9969 | AlphabetLighting.com

# alphabet

ORDERING CODE											
SERIES	NU6	NU6									
TYPE	QA	square adjustable									
LED	SW	standard white									
	10LM	990 lm									
	15LM	1490 lm									
	20LM	2095 lm									
	25LM	2540 lm									
DELIVERED	30LM	3090 lm									
LUMENS	35LM	3590 lm									
	40LM	4180 lm									
			000K 80CRI 25D <b>N</b>								
	Calculated Del Multiplier]	ivered Lume	ens = [Delivered L	umen	Valu	e] x [(	CCT M	ultipli	er] x	Refle	ctor
	27K	2700K	CCT	2700	0K	300	00K	350	10K	40	00K
	30K	3000K	CRI	80+	90+	80+	90+	80+	90+	80+	90+
ССТ	35K	3500K	CCT MULTIPLIER FOR LUMEN OUTPUT	0.96	0.81	1	0.85	1.03	0.88	1.06	0.91
	40K	4000K					l				'
001	80	80 CRI									
CRI	90	90 CRI									
	20D	20 degre	ees							(0.9	99)
OPTIC & Lm multiplier	25D	25 degre	ees							(1.0	0)
	35D	35 degre	ees							(0.9	99)
SEE PAGE 4	50D	50 degrees (0.99)				99)					
	65D	65 degre	ees							(0.9	99)
	$NL^1$	no lens								(1.0	0)
	CL	clear lens (0.92)					92)				
BEZEL LENS	DL	diffused	lens							(0.9	91)
SEE PAGE 3	$\mathbf{E}^2$	elliptical	beam spread							(0.9	91)
	HET	high effi	ciency texture	d ler	1S, S	imila	ar to	Solit	e™	(0.9	92)
	SBL	smoothi	ng beam lens							(0.9	92)
	BK	black									
	WH	white									
TRIM	MC	matte ch	rome								
COLOR	BZ	bronze									
SEE PAGE 3	WT	wheat									
	CC <sup>3</sup>		color, consult								
Antimicrobial finish, add AM to black, white or matte chrome i.e. BKAM.											
	BK	black								(0.9	- 1
	WH	white								(1.0	
BEZEL	MC	matte ch	irome							(0.9	
COLOR SEE PAGE 3	BZ	bronze								(0.9	- 1
	WT	wheat								(0.9	<del>3</del> 9)
	CC <sup>3</sup>	custom	color, consult	facto	ry f	or de	etails	3			

Antimicrobial finish, add AM to black, white or matte chrome i.e. BKAM.

PROJECT INFORMATION							
JOB NAME		TYPE					
ORDERING CODE							

ORDERING CODE				
	NC	new const	ruction with ceiling fitting plate	
MOUNTING	IC <sup>4</sup>	insulation	contact housing	
OPTIONS	ICAT <sup>4</sup>	insulation	contact/airtight housing	
SEE PAGE 5, 6	CP <sup>4</sup>	chicago pl	enum housing	
	RET	retrofit, no	ceiling fitting plate	
	120	120V		
VOLTAGE	UNV	120V-277V		
	LVL <sup>5</sup>	low voltag	e luminaire	
	DIM10	eldoLED fli	cker free 0-10V dimming to 1%	
	DIM10Z	eldoLED fli	cker free 0-10V dimming to 0%	
	DALI	eldoLED fli	cker free DALI-2 dimming to 1%	
	DALIZ	eldoLED fli	cker free DALI-2 dimming to 0%	
	DMX-RJ45	DMX contro	ol dimming to 0.1% with RJ45 connection	
DMX-WL		DMX control dimming to 0.1% with wire lead connection		
	DMX-XLR	DMX control dimming to 0.1% with XLR 5pin connec		
	LUT	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black		
DIMMING	LUTP <sup>6</sup>	Lutron Hi-lume Premier Ecosystem dimming to 0.19 Soft-on & Fade-to-Black		
	ELV1	leading & trailing edge (Triac/ELV) dimming to 1%		
	NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dim to off		
	CAS	Casambi c	ontrol with flicker free 1% dimming	
	AWNR <sup>7</sup>	lutron athe	ena wireless node	
	L3DA	Lutron Hi-l	ume 1% 3-wire/Ecosystem	
	ND	No Driver Included. Customer to Supply PoE system components or order remote driver separately. Refer to POE/Remote Driver reference sheet for additional details.		
	EM7 <sup>8</sup>	emergency	y battery backup, 90 minutes at 7W to LED	
ELECTRICAL	EM12 <sup>8</sup>	emergency	/ battery backup, 90 minutes at 12W to LED	
OPTIONS	EM10CA20 <sup>8</sup>	remote em to LED, CA	ergency battery backup, 90 minutes at 10W title 20	
	ADI	DITIONAL M	OUNTING INFO	
	onstruction ers (included)	THONAL III	Mounting Length: 14-3/4" to 26"	
0	(it = /= : Kooocc		14-5/4 10 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:

NU6 - QA - SW -40LM - 30K - 90 - 50D -NL - WH - WH - NC - UNV - DIM10 - EM7

#### NOTES

- 1. NL option does not meet requirement for AT/DF/WET/NSF listings
- 2. Actual beam distributions for optic (Actual beam distributions for optic (20D= 37°.2 x 63°, 25D= 40° x 67°, 35D= 48.6° x 74.6°, 50D=54.2° x 79.7°, 65D= 63° x 88.8°).
- 3. Custom set up fee plus minimum quantity required per color.
- 4. IC/ICAT/CP not available in 40LM.
- 5. Must select ND dimming code, for remote driver or POE specifications see page 7.
- 6. LUTP not available in 25LM/30LM/35LM/40LM.
- 7. AWNR reference page 9 for product specifications on Athena wireless node.
- 8. For integrated test switch add "ITS" after emergency backup code, i.e. EM12ITS. Not available in LVL/ND voltage and dimming codes.
- \* EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.



PROJECT INFORMATION							
JOB NAME		TYPE					
ORDERING CODE							

#### **TRIM OPTIONS**

#### TRIM/BEZEL COLORS











WH

MC

BK

ΒZ

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
20D	18	9.7
25D	22.8	9.2
35D	36.2	10.5
50D	49.2	14
65D	64.6	14.8

NL

No Lens



OPTIC	BEAM ANGLE	UGR
20D	18	9.9
25D	22.8	9.5
35D	36.2	10.8
50D	49.2	14.2
65D	64.5	15.1

HET High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D	22.5	10.2
25D	27	10.4
35D	38.8	12.1
50D	49.8	12.9
65D	60.4	15.8

DL

Diffused Lens



OPTIC	BEAM ANGLE	UGR
20D	39.4	15.9
25D	42.4	16.2
35D	50.6	17.2
50D	56.7	17.7
65D	66.7	19.7

**SBL** 

Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
20D	19.3	9.4
25D	24.3	9.5
35D	37.2	11.1
50D	51.2	11.9
65D	62.2	15.1

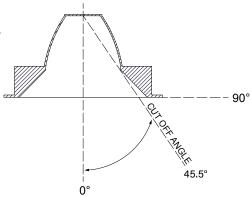
#### **GLARE CONTROL**

#### **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 NL and CL is 45.5 degrees;



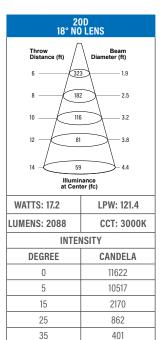
Alphabet by Ledra Brands, Inc. 88 Maxwell Irvine, CA 92618 PH: 714.259.9959 FAX: 714.259.9969 AlphabetLighting.com



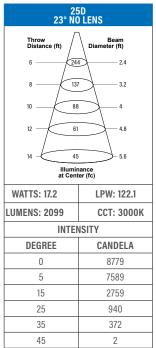
PROJECT INFORMATION						
JOB NAME		TYPE				
ORDERING CODE						

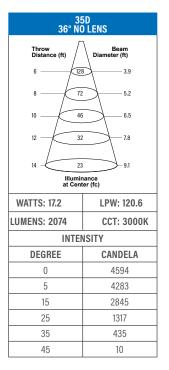
#### **PHOTOMETRIC DATA**

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

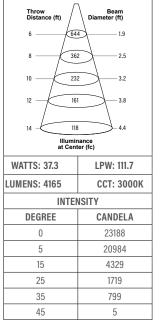


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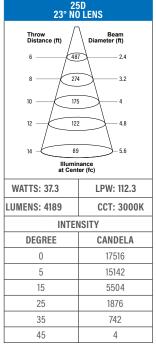


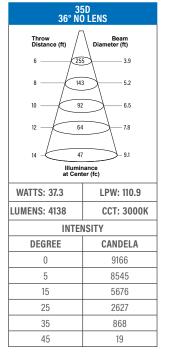


40LM CCT MULTIPLIERS			
	90CRI		
2700K	0.96		
3000K	1		
3500K	1.01		
4000K	4000K 1.02		
FC Formula = CBCP / Distance <sup>2</sup>			



20D 18° NO LENS





NU6QA

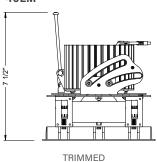


PROJECT INFORMATION				
JOB NAME	TYPE			
ORDERING CODE	Ì			

#### **MOUNTING OPTIONS**

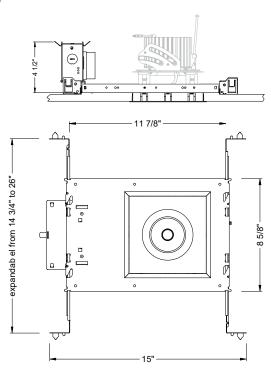
#### **FIXTURE HEIGHT**

10LM - 40LM

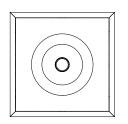


#### **NC - NEW CONSTRUCTION**

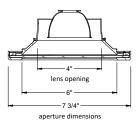
**TRIM** 



#### **TRIM**



ceiling cutout 6-1/4" square ceiling thickness 1/8" to 1 5/8"

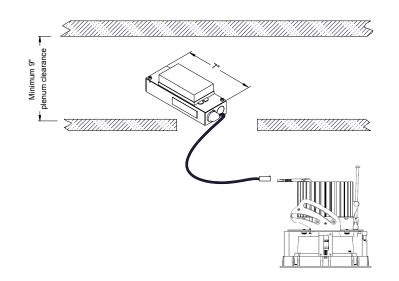




PROJECT INFOR	PROJECT INFORMATION		
JOB NAME		TYPE	
ORDERING CODE			

#### **MOUNTING OPTIONS**

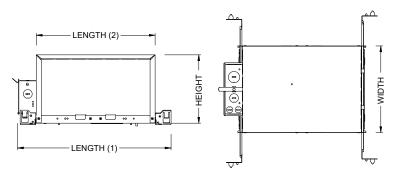
## RET - RETRO TRIM/TRIMLESS



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

CEILING THICKNESS			
	MOUNTING TYPE		
FIXTURE TYPE	NC, IC, ICAT, CP, RET		
	STANDARD CEILING THICKNESS	CEILING CUTOUT	
TRIM	1/8" to 1-5/8"	6-1/4" square	

#### IC - INSULATION CONTACT HOUSING **ICAT - INSULATION CONTACT / AIR TIGHT CP - CHICAGO PLENUM**



BOX SIZE	LI	L2	W
Α	15 - 7/16"	11 - 3/4"	8 - 1/2"
В	18 - 1/4"	14 - 7/8"	12 - 1/8"

BOX TYPE / LUMEN OUTPUT - STANDARD BEAM (20°-65°)			
LUMEN OUTDUT		BOX-A	
LUMEN OUTPUT	СР	IC	ICAT
10LM	V	V	~
15LM	V	V	~
20LM	V	V	~
25LM	V	~	~
30LM			

BOX TYPE / LUMEN OUTPUT - STANDARD BEAM (20°-65°)			
BOX-B			
LUMEN OUTPUT	СР	IC	ICAT
30LM	<b>✓</b>	~	~
35LM	V	V	~
40LM			

NU6QA



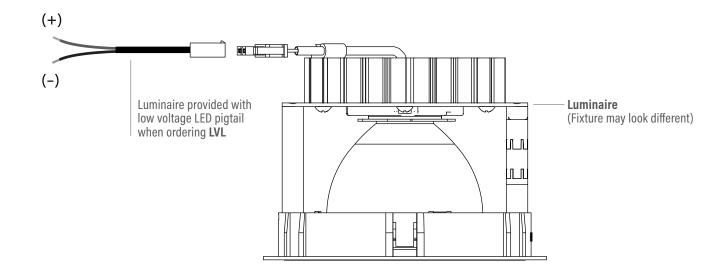
PROJECT INFORMATION				
JOB NAME		TYPE		
ORDERING CODE				

#### **LOW VOLTAGE OPTIONS**

20° -65° BEAM (Note: Specifications are subject to change without notice)					
	14mm COB PERFORM	ANCE DATA			
LED LIGHT ENGINE					
10LM	990LM @30K/80CRI	200 mA	7.5W		
15LM	1490LM @30K/80CRI	300 mA	11W		
20LM	2095LM @30K/80CRI	425 mA	15.5W		
25LM	2540LM @30K/80CRI	525 mA	19W		
30LM	3090LM @30K/80CRI	650 mA	23.5W		
35LM	3590LM @30K/80CRI	750 mA	27W		
40LM	4180LM @30K/80CRI	900 mA	32.5W		
10LM	840LM @30K/90CRI	200 mA	7.5W		
15LM	1270LM @30K/90CRI	300 mA	11W		
20LM	1780LM @30K/90CRI	425 mA	15.5W		
25LM	2160LM @30K/90CRI	525 mA	19W		
30LM	2630LM @30K/90CRI	650 mA	23.5W		
35LM	3050LM @30K/90CRI	750 mA	27W		
40LM	3550LM @30K/90CRI	900 mA	32.5W		
Notes	Notes Delivered lumens based on 25D optic with no lens, (see page 2)				

#### **NOMINAL LED VOLTAGE: 36VDC**

Customer to order CC Remote Driver separately or POE Node by others.





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.

#### INTEGRATED TEST SWITCH

The integrated test switch mounted onto fixture bezel.

#### **REMOTE TEST SWITCH**

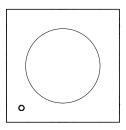
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

#### **EMERGENCY BATTERY ACCESS**

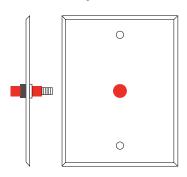
Above ceiling access is recommended for ease of service, but LED Fixture Sizes of 4" and Larger are capable of below ceiling access. IC/ICAT/CP Box and ITS option require an access panel in the ceiling (or other form of access) adjacent to the installation location of the Emergency Battery.

#### **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.



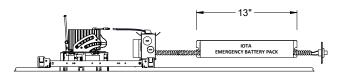
Integrated Test Switch



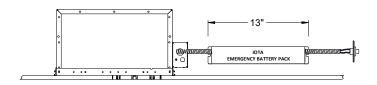
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)					
LUMEN ORDERING CODE	EM7	EM10	EM12		
ALL OPTIONS	860LM	1230LM	1470LM		
Notes: Based on 30K, 90CRI					

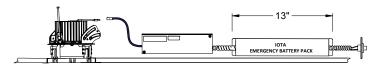
#### **NC - NEW CONSTRUCTION** WITH EM BATTERY (REMOTE TEST SWITCH)



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

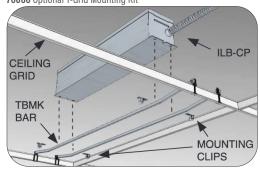


#### **RET - RETROFIT** WITH EM BATTERY (REMOTE TEST SWITCH)



#### Accessory

76066 Optional T-Grid Mounting Kit



1. Can be used with any of the Emergency Battery Backups. Must be ordered as a separate line item.



PROJECT INFORMATION				
JOB NAME		TYPE		
ORDERING CODE			_	

#### **AWNR OPTIONS**

#### Athena Wireless Node

The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system.





#### **AWNR**

Plenum rated and can be installed above the ceiling for wireless control of a fixture without any impact on fixture aesthetics.

Athena Wireless Node RF

#### **FEATURES**

- Enables individual, wireless control of each fixture in an Athena control system. Accommodates zone and control changes without rewiring.
- Installed at factory no wiring required on-site. Fixture is ready to communicate wirelessly once power is connected.
- All drivers on the link are controlled as a single zone.

#### **REGULATORY APPROVALS**

- cULus Listed (UL916)
- Complies with requirements for use in other spaces used for environmental air (plenums) per NEC<sup>®</sup> 2014 300.22(C)(3).
- FCC compliant with the limits for a Class B digital device.
- IC (Industry Canada)
- ANSI C137.1 0-10 V- Electronic Off

#### **POWER / LOAD**

- IEC SELV/NEC® Class 2
- ■1 Watt

#### **ENVIRONMENTAL**

- Ambient operating temperature (immediate vicinity of Athena wireless node): 32 °F to 131 °F (0 °C to 55 °C), 0% to 90% humidity.

#### **BATTERY OPTIONS**

• For EM options please consult factory.

For servicing the driver/j-box, access above ceiling is required. (NC Mounting)

> IC/ICAT/CP not available in AWNR.

#### Note: Default behavior prior to programming

- Light level 100%
- Athena wireless node performs an unprogrammed startup sequence on every power up until the device is added to an Athena system.
- Each Athena wireless node should be installed within 25 ft (7.62 m) of two or more Athena wireless nodes or other Clear Connect -Type X devices.
- For Chicago plenum installations, the Athena wireless node may not be installed in the plenum space. It must be installed in the occupied space.

#### **NC - NEW CONSTRUCTION**

#### **RET - RETRO FIT**

