NU4 LOPRO

4" Round Downlight Standard White











Trimless Millwork

FEATURES

- 3/4" bezel regress with 1/16" micro flange
- 8° 65° optical beam control
- UGR < 19
- 110 LPW average
- Glare control, specialty optics, trim options, and custom finishes available
- · Microban antimicrobial finish available on all exposed painted surfaces

LED

- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L₇₀ > 66,000 hrs
- 80 CRI: SDCM = 3-step MacAdam Ellipse, Lumen Maintenance: L₇₀ > 66,000 hrs

PROJECT INFOR	MATION		
JOB NAME		ТҮРЕ	
ORDERING CODE			

20° - 65° BEAM (Note: Specifications are subject to change without notice)				
14mn	COB PERFORMANCE DA	TA		
LED LIGHT NOMINAL DELIVERED SYSTEM ENGINE LUMENS WATTAGE				
10LM	990LM @30K/80CRI	9W		
15LM	1485LM @30K/80CRI	12W		
20LM	2095LM @30K/80CRI	17W		
25LM	2540LM @30K/80CRI	21W		
30LM	3090LM @30K/80CRI	26W		
10LM	840LM @30K/90/CRI	9W		
15LM	1260LM @30K/90/CRI	12W		
20LM	1780LM @30K/90/CRI	17W		
25LM	2160LM @30K/90/CRI	21W		
30LM	2620LM @30K/90/CRI	26W		
Notes Delivered lumens based on WH70 optic with no lens, (see page 2)				

8 - 12° BEAM (Note: Specifications are subject to change without notice)					
6n	nm COB PERFORMANCE D	ATA			
LED LIGHT NOMINAL DELIVERED SYSTEM ENGINE LUMENS WATTAGE					
10LM	990LM @30K/80CRI	10W			
15LM	1460LM @30K/80CRI	15W			
10LM	840LM @30K/90CRI	10W			
15LM	1240LM @30K/90CRI	15W			
Notes Delivered lumens based on S10 optic with no lens, (see page 2)					

DIMMING AND CONTROLS

- 0-10V dimming to 1%
- Leading & trailing edge (Triac / ELV) dimming to 1%

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 1/8" to 1-5/8"

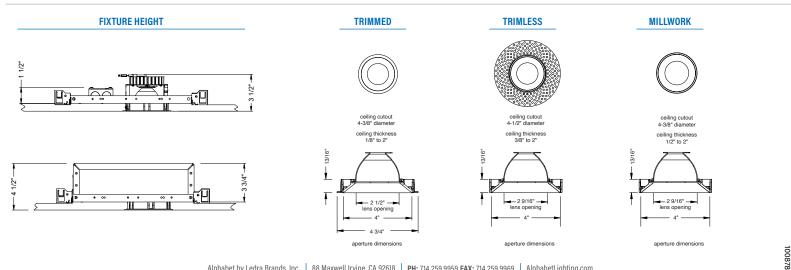
LISTING

In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

- 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

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)



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	8°-	- 65° BEAN	I ORDERING C	ODE							
SERIES	NU4	NU4	NU4								
	RDLP	round do	wnlight lopro								
ТҮРЕ	RDTLP	round do	wnlight trimles	ss lo	pro						
	RDTMWLP	round do	round downlight trimless millwork lopro								
LED	SW	standard	white								
	10LM	/ 990 lm									
	15LM	1485 lm									
	20LM	2095 lm									
DELIVERED	25LM	2540 lm									
LUMENS	30LM	3090 lm	3090 lm								
		0	3000K 80CRI WH70								
	Calculated D Multiplier]	elivered Lum	nens = [Delivered	Lume	n Valu	16] x [CCTN	lultip	lier] x	[Refle	ector
	27K	2700K	CCT	270)0K	200)0K	250)0K	400	ок
	30K	3000K	CRI	80+	90+	80+	90+	80+	90+	80+	90+
ССТ	35K	3500K	CCT MULTIPLIER FOR	0.96	0.81	1.00	0.85	1.03	0.88	1.06	0.91
	40K	4000K	LUMEN OUTPUT	0.90	0.01	1.00	0.00	1.05	0.00	1.00	0.91
	80	80 CRI									
CRI	90	90 CRI									
	8D ¹	8 degree	s							(1	.00)
OPTIC & LM MULTIPLIER SEE PAGE 5, 6	12D ¹	12 degree									.00)
	20D	20 degree	-					.99)			
	25D	-	25 degrees				.00)				
	35D	35 degrees				.99)					
	50D	-			.99)						
	65D	65 degre									.99)
	NL ²	no lens									.00)
	CL	clear lens	clear lens (0.98)								
	DL	diffused I	ens).91)
BEZEL LENS	E ³	elliptical	beam spread								.92)
SEE PAGE 3, 4	HCL⁴		nb louver								.85)
	HET		iency textured	len	s, sir	nilar	to S	olite	тм		.92)
	SBL	•	g beam lens							(0	.92)
	Color lenses	(amber, blue,	green, red) see pa	ge 4.						-	
	BK	black									
	WH	white									
TRIM	МС	matte chi	rome								
COLOR	BZ	bronze									
SEE PAGE 3, 4	WT	wheat									
	CC⁵		olor, consult fa								
		robial finish, add AM to black, white or matte chrome i.e. BKAM. licable to trimless option. Do not include in trimless ordering code.									
	BK	black		uuen		1622 0	lueili	iy coi	16.	((.98)
	WH	white									.00)
DE 7EI	MC	matte chi	rome								.99)
BEZEL COLOR	BZ	bronze									.98)
SEE PAGE 3, 4	WT	wheat									.99)
	CC ⁵		olor, consult fa	nctor	v fo	r dot	aile			ί	
			M to black, white of		-			KAM.			
						20					

P	PROJECT INFORI	MATION		
J	OB NAME		ТҮРЕ	
0	ORDERING CODE			

8°- 65° BEAM ORDERING CODE				
MOUNTING	NC	new construction with ceiling fitting plate		
OPTIONS	IC ⁶	insulation contact housing		
SEE PAGE 2, 8	RET	retrofit, no ceiling fitting plate		
VOLTAGE	120	120V		
VOLTAGE	UNV	120V-277V		
DIMMINIC	ELV1 ⁷	leading & trailing edge (Triac/ELV) dimming to 1%		
DIMMING	DIM10	0-10V dimming to 1%		
	EM7	emergency battery backup, 90 minutes at 7W to LED		
ELECTRICAL	EM12	emergency battery backup, 90 minutes at 12W to LED		
OPTIONS	EM10CA20	remote emergency battery backup, 90 minutes at 10W to LED, CA title 20		

ADDITIONAL MOUNTING INFO					
New Construction	Mounting Length:				
Bar Hangers (included)	14-3/4" to 26"				
Extension Kit p/n: K20266	<i>Extends a pair of Bar Hangers</i>				
(ordered separately,	Total Mounting Length:				
1 per fixture)	29" to 48"				

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

NU4 - RDLP - SW - 20LM - 35K - 90 - 25D - NL - WH - WH - NC - UNV - DIM10 - EM7

NOTES

1. 8D/12D available in 10LM/15LM.

2. NL option does not meet requirements for AT/DF/WET/NSF listings. Lensing cannot be added in the field.

3. Elliptical lens not available with 8D/12D optic options. Actual beam distributions [20D= 35° x 60° , 25D= 40° x 65° , 35D= 45° x 70° , 55D= 55° x 80°]

4. HCL not available with lens.

5. Custom set up fee plus minimum quantity required per color.

6. IC not available in 30LM.

7. ELV1 (120V) not available in 10LM.

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PROJECT INFORMATION					
JOB NAME		ТҮРЕ			
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
8D	7.8	10.9
12D	11.3	23.5
20D	17.4	12.5
25D	22.2	13.9
35D	32.4	16.5
50D	44.9	13.4
65D	52	15.5



OPTIC	BEAM ANGLE	UGR
8D	7.9	13.7
12D	12.1	13.3
20D	18	13.3
25D	22.8	12.8
35D	36.2	14.2
50D	49.2	18.1
65D	64.6	18.5



BEAM ANGLE	UGR
22.5	13.8
27	14
38.8	15.8
49.8	16.5
60.4	19.5
	22.5 27 38.8 49.8

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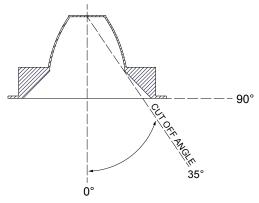
GLARE CONTROL

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 35 degrees;





OPTIC	BEAM ANGLE	UGR
8D	7.8	14.2
12D	11.9	13.8
20D	18	13.6
25D	22.8	13.1
35D	36.2	14.5
50D	49.2	18.3
65D	64.5	18.8



OPTIC	BEAM ANGLE	UGR
20D	39.4	19.5
25D	42.4	19.8
35D	50.6	20.8
50D	56.7	21.4
65D	66.7	23.3



OPTIC	BEAM ANGLE	UGR
8D	10.2	12.8
12D	13.2	12.9
20D	19.3	13
25D	24.3	13.1
35D	37.2	14.8
50D	51.2	15.6
65D	62.2	18.8

PROJECT INFORMATION			
JOB NAME		ТҮРЕ	
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	MULTIPLIER	BEAM SPREAD
20D	0.485	18°
25D	0.484	22°
35D	0.485	35°
50D	0.48	50°
65D	0.473	60°

AVERAGE LUMENS:2000LM 1880 CCT

GREEN



OPTIC	MULTIPLIER	BEAM SPREAD
20D	0.202	18°
25D	0.202	22°
35D	0.204	35°
50D	0.2	50°
65D	0.196	60°
AVERAGE LUMENS: 850LM		

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Add AM / BL / GR / RD to bezel lens ordering code section.
Example: NU4 - RD - SW - 10LM - 30K - 80 - 35D - BL - WH - WH - NC - UNV - DIM



OPTIC	MULTIPLIER	BEAM SPREAD
20D	0.04	18°
25D	0.04	22°
35D	0.04	35°
50D	0.04	50°
65D	0.038	60°
AVERAGE LUMENS: 168LM		

BLUE

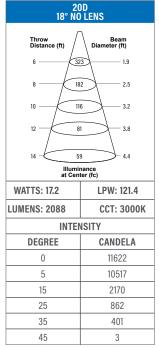
OPTIC	MULTIPLIER	BEAM SPREAD
20D	0.051	18°
25D	0.051	22°
35D	0.053	35°
50D	0.05	50°
65D	0.049	60°
AVEDAGE LUMENS: 2101 M		

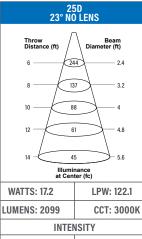
AVERAGE LUMENS: 210LM

ROJECT INFORMATION			
OB NAME		ТҮРЕ	
RDERING 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 ²		





INTENSITY		
DEGREE	CANDELA	
0	8779	
5	7589	
15	2759	
25	940	
35	372	
45	2	

35D 36° NO LENS		
Throw Distance (ft)	Beam Diameter (ft)	
6	8 3.9	
8 - 7	2 5.2	
104	6 6.5	
12 32 7.8		
14 23 9.1		
Illumin at Cen	nance ter (fc)	
WATTS: 17.2	LPW: 120.6	
LUMENS: 2074	CCT: 3000K	
INTER	ISITY	
DEGREE	CANDELA	
0	4594	
5	4283	
15	2845	
25	1317	
35	435	
45	10	

20LM CCT MULTIPLIERS			
80CRI 90CRI			
2700K	0.96	0.81	
3000K	00K 1 0.85		
3500K 1.03 0.88			
4000K 1.06 0.91			
FC Formula = CBCP / Distance ²			

50D 49° NO LENS			
Throw Distance (ft)	Beam Diameter (ft)		Throw Distance
6	0 5.5		6
8 - 5	7.4		8
103	3 9.2		10
122	3 11		12 -
14 - 1	7 12.9		14 -
	nance ter (fc)		
WATTS: 17.2	LPW: 121.2] [WATTS: 17.
LUMENS: 2085	CCT: 3000K] [LUMENS: 20
INTE	NSITY		
DEGREE	CANDELA		DEGRE
0	3253] [0
5	3231] [5
15	2606] [15
25	1591		25
35	450] [35
45	13		45

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65D 65° NO LENS			
Throw Beam Distance (ft) Diameter (ft)			
6	9 7.6		
8 10.1			
102	1 12.6		
12 15 15.2			
14 - 11 - 17.7			
Illuminance at Center (fc)			
WATTS: 17.2	LPW: 120.9		
WATTS: 17.2 LUMENS: 2080	LPW: 120.9 CCT: 3000K		
LUMENS: 2080			
LUMENS: 2080	CCT: 3000K		
LUMENS: 2080	CCT: 3000K		
LUMENS: 2080 INTEI DEGREE	CCT: 3000K NSITY CANDELA		
LUMENS: 2080 INTEI DEGREE 0	CCT: 3000K NSITY CANDELA 2103		
LUMENS: 2080 INTEI DEGREE 0 5	CCT: 3000K NSITY CANDELA 2103 2101		
LUMENS: 2080 INTEl DEGREE 0 5 15	CCT: 3000K NSITY CANDELA 2103 2101 1990		

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PROJECT INFORMATION			
JOB NAME		ТҮРЕ	
ORDERING CODE			

PHOTOMETRIC DATA

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 ²				

8D 7.8° NO LENS				
Throw Beam Distance (ft)				
6	0.8			
8	98 1.1			
102	55 1.4			
12 177 1.6				
14 130 1.9				
Illuminance at Center (fc)				
WATTS: 10.2 LPW: 97.9				
LUMENS: 998 CCT: 3000K				
INTENSITY				
DEGREE CANDELA				
0	25483			
5 8161				
15	463			
25	362			
35	215			
45	0.5			

12D 12° NO LENS				
Throw Beam Distance (ft) Diameter (ft)				
6	1.3			
8 185 1.7				
1011	9 2.1			
12 82 2.5				
14 61 2.9				
Illuminance at Center (fc)				
WATTS: 8.7 LPW: 115				
LUMENS: 1001 CCT: 3000K				
INTE	NSITY			
DEGREE	CANDELA			
0	11863			
5	7515			
15	660			
25	371			
35	192			
45	0.3			

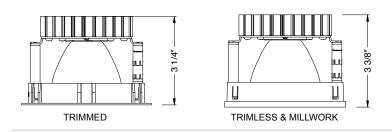
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PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

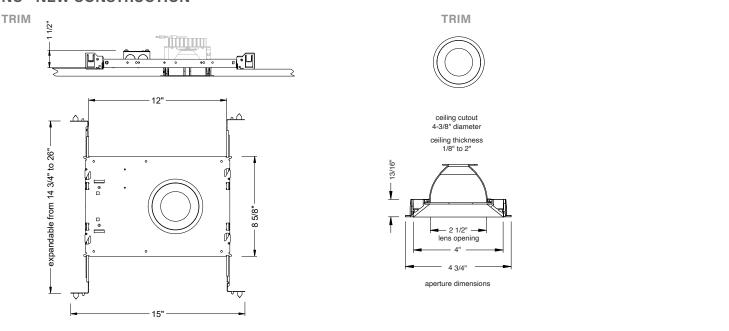
MOUNTING OPTIONS

FIXTURE HEIGHT

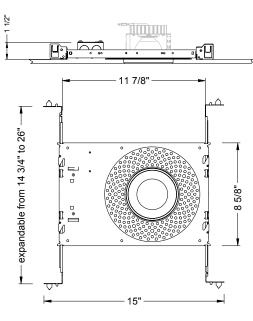
10M - 30LM CONFIGURATION



NC - NEW CONSTRUCTION



TRIMLESS



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TRIMLESS

ceiling cutout

4-1/2" diameter ceiling thickness 3/8" to 2"

_ 2 9/16" _

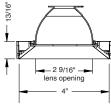
aperture dimensions

lens opening

TRIMLESS/MILLWORK







aperture dimensions

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13/16"

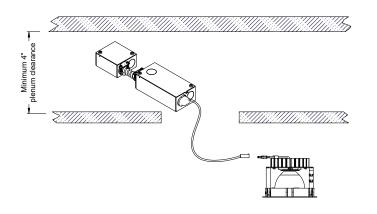
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PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

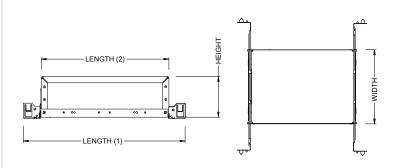
MOUNTING OPTIONS (CONTINUED)

RET - RETRO

TRIM/TRIMLESS



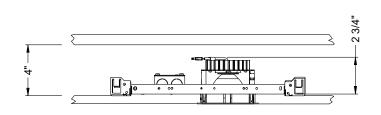
IC - INSULATION CONTACT HOUSING

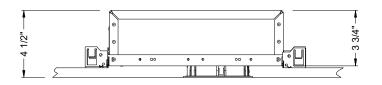


BOX SIZE	L1	L 2	W	H
A	15 - 7/16"	11 - 3/4"	8 - 1/2"	3 - 3/4"

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

CEILING THICKNESS				
	MOUNTING TYPE			
FIXTURE TYPE	NC, IC, RET			
	STANDARD CEILING THICKNESS			
TRIM	1/8" to 2"			
TRIMLESS	3/8" to 2"			
MILLWORK (TRIMLESS)	1/2" to 2"			





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BOX TYPE / LUMEN OUTPUT - NARROW BEAM (8° - 12°)			
LUMEN OUTPUT	IC		
10LM	V		
15LM	~		

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (20° - 65°)			
LUMEN OUTPUT	IC		
10LM	V		
15LM	 		
20LM	V		
25LM	V		
30LM			

BATTERY OPTIONS

PROJECT INFORMATION JOB NAME TYPE ORDERING CODE

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.

REMOTE TEST SWITCH

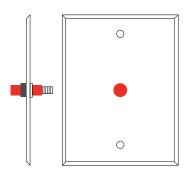
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS

Above ceiling access is required for service. An access panel in the ceiling (or other form of access) adjacent to the installation location of the Emergency Battery is required.

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.

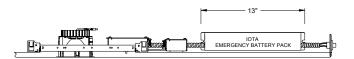


Remote Test Switch

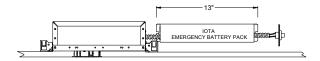
EM MODE OUTPUT (DELIVERED LUMENS)					
LUMEN ORDERING CODE	EM7	EM10	EM12		
ALL OPTIONS (10LM TO 30LM)	700LM	1000LM	1200LM		
Notes: Based on 30K, 80CRI					

NC - NEW CONSTRUCTION

WITH EM BATTERY (REMOTE TEST SWITCH)

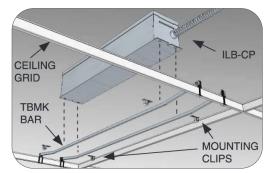


IC - INSULATION CONTACT HOUSING WITH EM BATTERY (REMOTE TEST SWITCH)



Accessory

76066 Optional T-Grid Mounting Kit²



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

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