ALPHABET
LEDRAbrands

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

LM-79

JOB NAME

CONTACT

ORDERING CODE

ECO NU3"

Round Downlight

COB LUTRON OEM ADVANTAGE ACCOUNT eldoLED® *your product | our drive*

Trim

Trimless
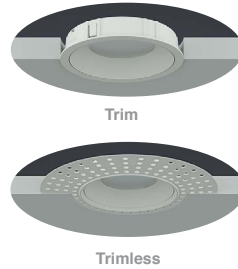
DESCRIPTION

The EcoNU3RD is an economical and highly efficient spec grade 3" recessed downlight with thoughtful construction and pleasing aesthetics. Offered standard with premium dimming using EldoLED 1% flicker free drivers 120V-277V universal voltage. Also offered 347V. Several beam angles available, plus an optional high-efficiency BrightView diffused lens for smooth light distribution and obscured LED image.

For the trim version, a minimalistic look is achieved with an ultrathin 1/16" trim that is only 5/16" wide. Color choices of both trim and bezel are offered for a customized look. For the trimless version, a perforated, mud up, regressed trim assembly provides for clean, trim free installation. Perforated mud frame's integrated lip helps guide the joint compound creating a sharp and clean opening.

HOUSING

Electrocoated 16-gauge cold-rolled steel provides enhanced structural reinforcement and rust prevention. Superior, UL-certified, injection-molded commercial-grade Lexan™ (PC) is used for the frame and regressed bezel trim. Lexan provides unmatched durability and impact resistance, and is tested for UV resistance and water exposure in outdoor applications. The thermally-advanced, anodized heat sink uses 6063 aluminum alloy. Wet location rated is offered standard. A 90-minute constant-power IOTA emergency battery backup is available.

MOUNTING

An advanced mounting system allows for quick and secure installation with LED and driver serviceability from below the ceiling. The LED assembly uses die-cast aluminum mounting clamp grips (MCG) that swing out to tighten onto variable ceiling thicknesses. Integrated rubber feet on each MCG provide a non-slip vibration-resistant installation. The hidden MCG system is accessible from below ceiling by removing the snap-in lens/bezel assembly with either the included suction cup or a screwdriver blade. Integrated bar hangers feature integral toothed nails, T-bar mounting slots with locking holes, tabs for joist positioning. Retrofit mounting option allows for installation from below ceiling by use of compact driver box. No risk damaging LED or bezel assembly during installation, these are installed during last steps. Fixture and driver are easily removed for servicing after install without damaging drywall.

MOUNTING DIMENSIONS	CEILING THICKNESS	CEILING CUTOUT
Trim	1/8" to 1-1/4"	3-3/8" diameter
Trimless	3/8" to 1-3/4"	3-1/2" diameter

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"

LISTINGS

- ETLus Listed to UL1598, cETL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, Lexan dead-front construction
- Made in the USA - meets the requirements of the Buy American provision within the ARRA

RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
Type non-IC	✔	✔			
Type IC			✔	✔	✔
Chicago Plenum (CCEA)					✔
Suitable for air handling plenums				✔	✔
Reduced airflow (with lens) ASTM E283	✔	✔	✔	✔	✔

LED INFO

- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L_{70} > 49,500 hrs
- 80 CRI: SDCM = 3-step MacAdam Ellipse, Lumen Maintenance: L_{70} > 49,500 hrs

ORDERING CODE

SERIES	NU3	
TYPE	RD	round downlight
	RDT	round downlight trimless
LED	SW	static white
DELIVERED LUMENS	07LM	600 lm
	10LM	755 lm
	13LM	930 lm
	15LM	1200 lm
	20LM	1430 lm
	25LM	1600 lm
	27LM	1885 lm

Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]
Standard Configuration: 3000K 80CRI WH65

CCT						
22K	2200K					
27K	2700K					
30K	3000K					
35K	3500K					
40K	4000K					
50K	5000K					

CCT	2200K		2700K		3000K		3500K		4000K		5000K	
CRI	80+	90+	80+	90+	80+	90+	80+	90+	80+	90+	80+	90+
CCT MULTIPLIER FOR LUMEN OUTPUT	0.85	N/A	0.96	0.81	1.00	0.84	1.01	0.85	1.03	0.87	1.04	N/A

CRI	80	80 CRI
	90[1]	90 CRI

REFLECTOR & LM MULTIPLIER	HE40	40° high efficiency diffused lens (0.87)
	HE50	50° high efficiency diffused lens (0.91)
	HE70	70° high efficiency diffused lens (0.94)
	D45	45° diffused with clear lens (0.89)
	D60	60° diffused with clear lens (0.91)
	WH65	65° brilliant white with clear lens (1.00)

NO LENS OPTION	NL[3]	no lens

ACCESSORIES	HCL[9]	honeycomb louver

VOLTAGE	120	120V
	UNV	120V-277V
	347[8]	347V

DIMMING	10V[7]	0-10V 1% dimming standard
	DIM10[4]	eldoLED flicker free 0-10V dimming to 1%
	DIM10Z[4]	eldoLED flicker free 0-10V dimming to 0%
	DALI[4]	eldoLED flicker free DALI dimming to 1%
	DALIZ[4]	eldoLED flicker free DALI dimming to 0%
	LUT[6]	Lutron Hi-lume EcoSystem dimming to 1%, Soft-on & Fade-to-Black
	LUTP[6]	Lutron Hi-lume Premier EcoSystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELV[5]	leading & trailing edge (Triac/ELV) dimming to < 10%
	ELV1[5]	leading & trailing edge (Triac/ELV) dimming to 1%

MOUNTING OPTIONS	NC	new construction with ceiling fitting plate
	IC[2]	insulation contact housing
	ICAT[2]	insulation contact/airtight housing
	CP[2]	chicago plenum housing
	RET	retrofit, no ceiling fitting plate

TRIM COLOR	BK	black
	WH	white
	MC	matte chrome
	WT	wheat
	BZ	bronze

Not applicable to trimless option. Do not include in trimless ordering code.

BEZEL COLOR	BK	black
	WH	white
	MC	matte chrome
	BZ	bronze
	WT	wheat

ELECTRICAL OPTIONS	EM7	emergency battery backup, 90 minutes at 7 watts to LED
	EM12	emergency battery backup, 90 minutes at 12 watts to LED

ORDERING CODE

Follow the steps to specify your fixture, example:
NU3 - RD - SW - 20LM - 35K - 90 - HE40 - 120 - DIM10 - NC - WH - WH - EM7

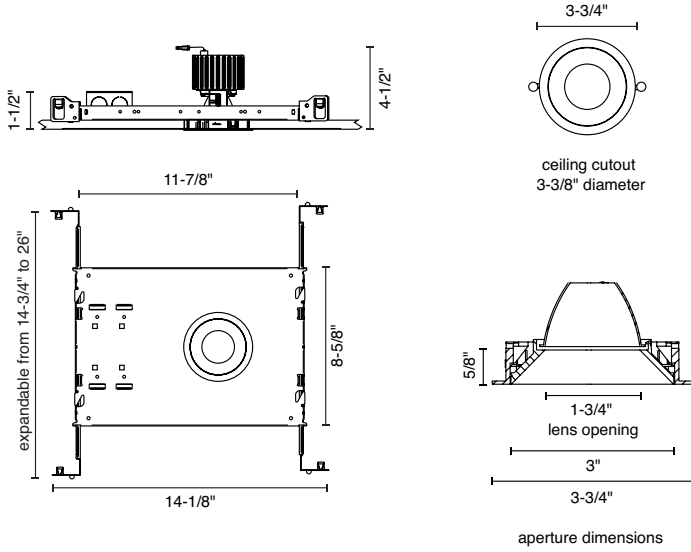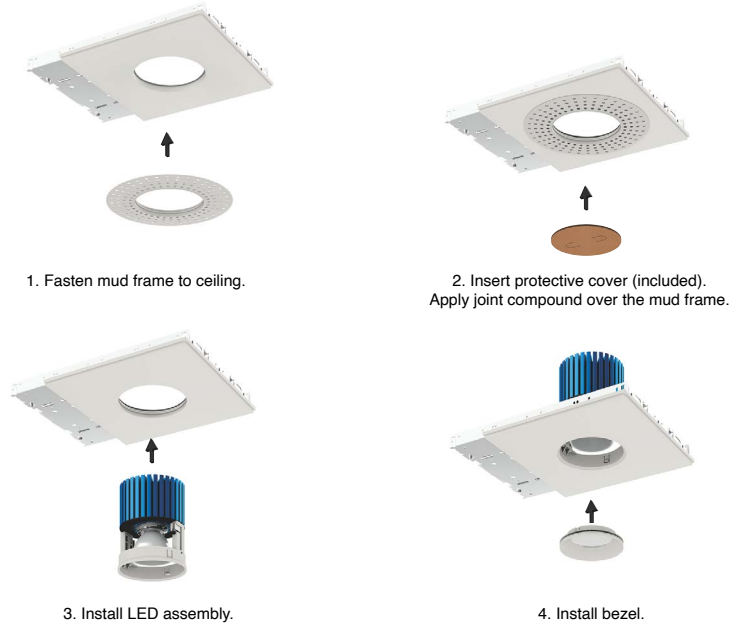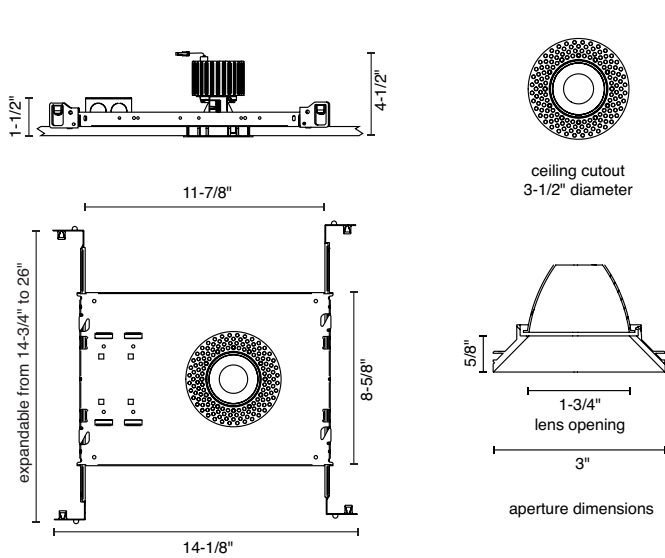| SW (LED)	POWER
DELIVERED LM	**W (80/90 CRI)**
600	7
755	9
930	11
1200	13
1430	17
1600	21
1885	23

Power Factor ≥ 0.9

NOTES
1. 90 CRI not available in 2200K or 5000K.
2. IC/ICAT/CP not available in 20LM or 27LM.
3. "No lens" option available for D45, D60, or WH65 and is damp location rated.
4. Driver uses logarithmic dimming curve as standard. For linear dimming curve add "LIN" after dimming code, i.e. DIM10LIN.
5. Triac/ELV dimming available in 120V only.
6. LUT/LUTP not available in 25LM or 27LM.
7. 10V dimming only available in 15LM, 20LM and 25LM.
8. DIM10 offered in 347V using a dedicated 347V Osram 0-10V 1% Driver; this requires above ceiling access for maintenance of the driver. For all other dimming options 347V is offered using a miniature Step-Down Transformer integrated with the Electrical Box. Triac and ELV dimming are not available.
9. HCL not available with lens. Multiply delivered lumens by (0.78) and beam spread by (0.80) when honeycomb louver is chosen.

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MOUNTING OPTIONS

NC - NEW CONSTRUCTION
TRIM

1-1/2"

4-1/2"

11-7/8"

expandable from 14-3/4" to 26"

8-5/8"

14-1/8"

3-3/4"

ceiling cutout
3-3/8" diameter

5/8"

1-3/4"
lens opening

3"

3-3/4"

aperture dimensions

NC - NEW CONSTRUCTION
TRIMLESS

1-1/2"

4-1/2"

11-7/8"

expandable from 14-3/4" to 26"

8-5/8"

14-1/8"

ceiling cutout
3-1/2" diameter

5/8"

1-3/4"
lens opening

3"

aperture dimensions

1. Fasten mud frame to ceiling.

2. Insert protective cover (included).
Apply joint compound over the mud frame.

3. Install LED assembly.

4. Install bezel.

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.

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MOUNTING OPTIONS (CONTINUED)

RET - RETROFIT

TRIM/TRIMLESS

2-1/2"

9-1/16"

1-7/16"
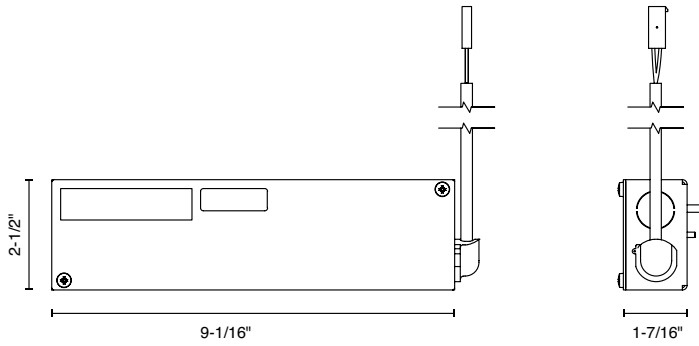
IC - INSULATION CONTACT HOUSING

TRIM/TRIMLESS

11-3/4"

6-3/4"

15"

8-5/8"

12-3/8"
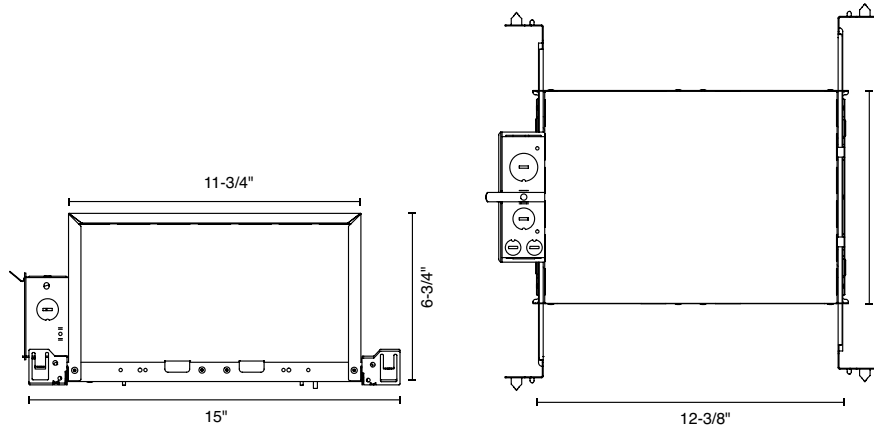
CP - CHICAGO PLENUM
ICAT - INSULATION CONTACT / AIR TIGHT

TRIM/TRIMLESS

14-7/8"

11-3/8"

18-1/4"

12-1/4"

15-1/2"