

**JOB NAME** \_\_\_\_\_

**CONTACT** \_\_\_\_\_

**ORDERING CODE** \_\_\_\_\_

# NU4" Round Downlight Hyperbolic Lumenetix

## ORDERING CODE

SERIES	NU4	
TYPE	RH RHT RHTMW	round hyperbolic round hyperbolic trimless round hyperbolic trimless millwork
LED	LMX	Lumenetix
DELIVERED LUMENS	12LM 20LM	1000 lm 1500 lm
CCT	TC	tunable color, 8000K - 1650K
CRI	90	90 CRI
REFLECTOR & LM MULTIPLIER	S30 WHS30 WHS45 BKS30 BKS45 BKD45 WHD50	specular hyperbolic cone with 30° specular reflector, 75° cutoff angle white hyperbolic cone with 30° specular reflector, 70° cutoff angle white hyperbolic cone with 45° specular reflector, 105° cutoff angle black hyperbolic cone with 30° specular reflector, 70° cutoff angle black hyperbolic cone with 45° specular reflector, 80° cutoff angle black hyperbolic cone with 45° diffused reflector, 80° cutoff angle white hyperbolic cone with 50° diffused reflector, 115° cutoff angle
VOLTAGE	120 UNV 347 <sup>1</sup>	120V 120V-277V 347V
DIMMING	DIM10 DMX LUD DLM DALI	0-10V control, dimmable to 1% + Bluetooth control DMX control, dimmable to 1% + Bluetooth control Lutron Ecosystem control, dimmable to 1% + Bluetooth control Legrand Digital Lighting Management control, dimmable to 1% + Bluetooth control DALI Type 8 control, dimmable to 1% + Bluetooth control
MOUNTING OPTIONS	NC IC ICAT CP RET	new construction with ceiling fitting plate insulation contact housing insulation contact/airtight housing chicago plenum housing retrofit, no ceiling fitting plate
TRIM COLOR	WH MC BK BZ WT	white matte chrome black bronze wheat <small>Not applicable to trimless option. Do not include in trimless ordering code.</small>
ELECTRICAL OPTIONS	EMIN	order separate emergency battery backup inverter, 90 minutes at full power p/n: P70490-50W



**DESCRIPTION**

The NU4RD-LMX Hyperbolic 4" recessed downlight by ALPHABET provides extreme cut-off for glare control applications, using araya5<sup>®</sup> Logic Modules from Lumenetix, dynamically and precisely tunes light with accuracy, control and consistency. White light at 90+ CRI is delivered with a color consistency within a 2-step MacAdam ellipse (SDCM) across a range of 1650K to 8000K. Gradients of saturated colors from 1 to 100% can be added to color points within the tuning range. On-board, closed-loop thermal feedback compensates each color channel for thermally induced variations in light output due to dimming or changes in ambient temperatures. On-board, closed-loop optical feedback measures the lumen depreciation of each channel and re-balances the color model to ensure color consistency over the life of the LED array. Available in 120V-277V universal voltage and 347V input options with multiple control options including 0-10V, Bluetooth™, DMX512, Legrand® Digital Lighting Management (DLM), DALI and Lutron® EcoSystem. Delivered light can be dimmed to 0.1% at constant CCT. Several beam angles available.

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 hyperbolic cone are offered for a customized look and pleasing aesthetics. 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. 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	New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Trim	1/8" to 1-5/8"	4-3/8" diameter	Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	Extends a pair of Bar Hangers Total Mounting Length: 29" to 48"
Trimless	3/8" to 1-3/4"	4-1/2" diameter		
Millwork (Trimless)	1/2" to 1-3/4"	4-3/8" diameter		

**LISTINGS**

- ETLus Listed to UL1598, cETL Listed to CSA C22.2 #250.0
- 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 (CEEA)					✓
Suitable for air handling plenums				✓	✓
Reduced airflow (with lens) ASTM E283	✓	✓	✓	✓	✓

**LED INFO**

- SDCM = 2-step MacAdam Ellipse, Duv +/- 0.002, Lumen Maintenance: L<sub>70</sub> > 72,000 hrs

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Follow the steps to specify your fixture, example:  
**NU4 - RH - LMX - 20LM - TC - 90 - BKS30 - 120 - DIM10 - NC - WH - EMIN**

LMX (LED)	POWER
DELIVERED LM	W (90 CRI)
1000	19
1500	40

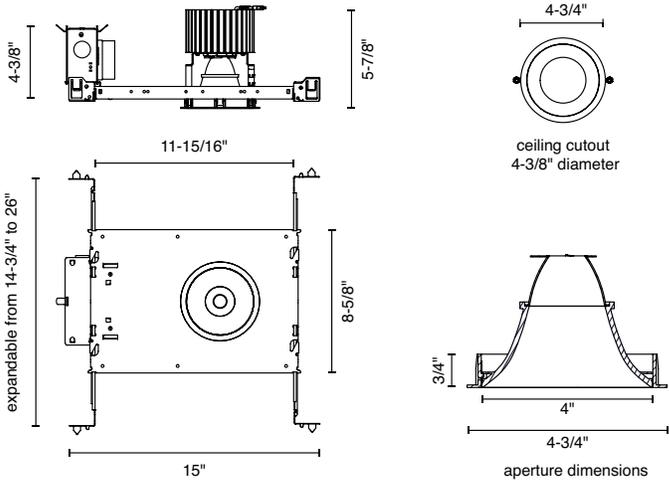
**Power Factor ≥ 0.9**

**NOTES**

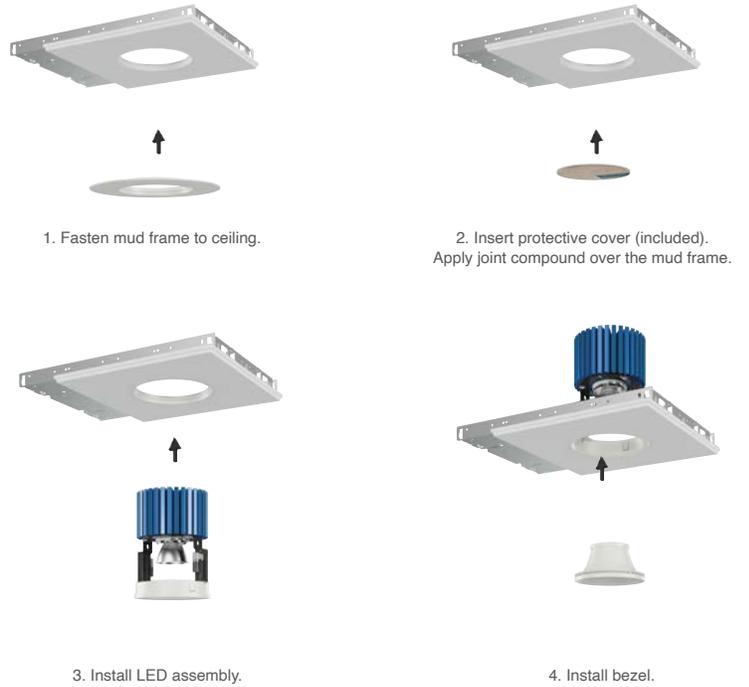
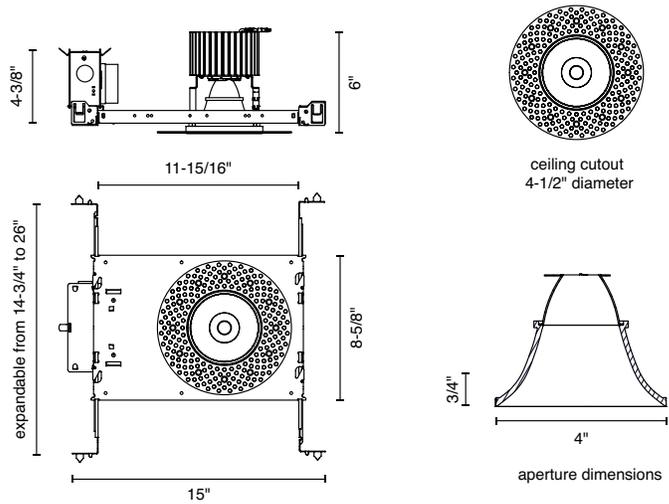
1. 347V offered using a miniature Step-Down Transformer integrated with the Electrical Box.

**MOUNTING OPTIONS**

**NC - NEW CONSTRUCTION TRIM**

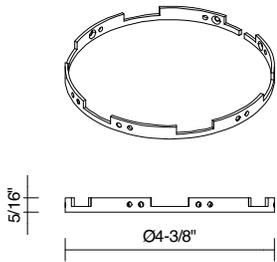


**NC - NEW CONSTRUCTION TRIMLESS**



**MOUNTING OPTIONS (CONTINUED)**

**RHTMW – MILLWORK  
TRIMLESS**



**Millwork Mounting Bracket**

**NOTES**

- 1 Ceiling cutout 4-3/8".
- 2 Millwork Mounting Bracket & Mounting Screws are included with each Luminaire.
- 3 One Plastic Spacer and two C-Clamps are included with each order.
- 4 Refer to Installation Instructions for further details.



1. Insert Millwork Mounting Bracket using the included Plastic Spacer for proper depth positioning.



2. Use the included C-Clamps to temporarily hold the Plastic Spacer in position. Fasten the included wood screws into the Mounting Bracket using a right-angle impact driver (supplied by others).



3. Remove Plastic Spacer.



4. Install Luminaire.

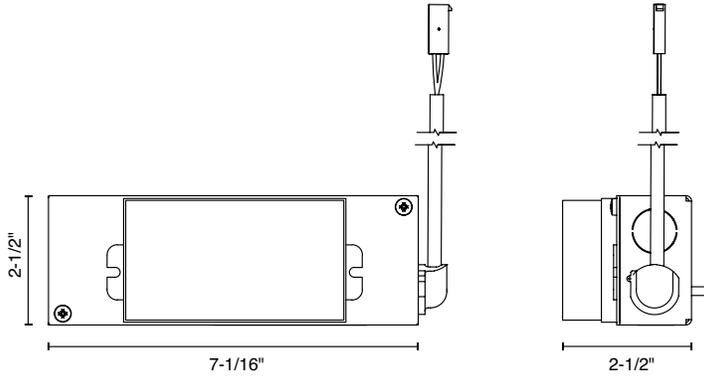


5. Insert Bezel to finish the installation.

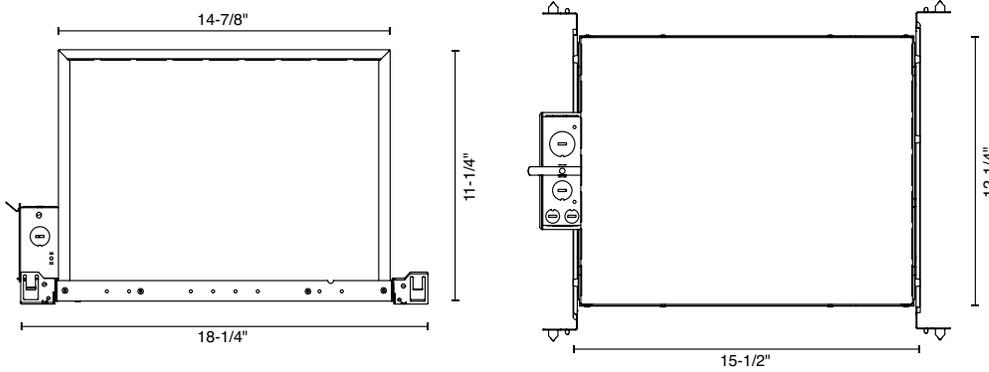


**MOUNTING OPTIONS (CONTINUED)**

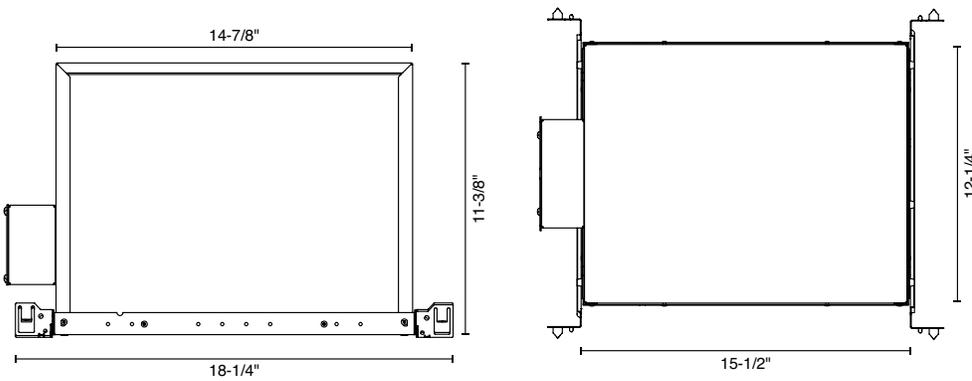
**RET - RETROFIT  
TRIM/TRIMLESS**



**IC<sup>1</sup> - INSULATION CONTACT HOUSING  
TRIM/TRIMLESS**



**CP - CHICAGO PLENUM  
ICAT - INSULATION CONTACT / AIR TIGHT  
TRIM/TRIMLESS**



**NOTES**

1 Consult factory for smaller IC Housings when selecting lower lumen packages.