

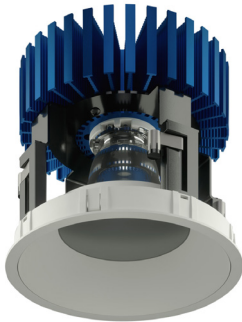
JOB NAME

CONTACT

ORDERING CODE

NU6"

Round Downlight  
Tunable White



**DESCRIPTION**

The NU6RD-TW 6" recessed downlight by ALPHABET offers economical and efficient, tunable CCT LED technology from Luminus or Nichia, premium performance, thoughtful construction and pleasing aesthetics. Available with optional Bluetooth controls or standard premium dimming using the EldoLED flicker-free driver with LightShape technology at 120V-277V universal voltage. 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. Several beam angles available, plus an optional high-efficiency BrightView diffused lens for smooth light distribution and obscured LED image. Optional integrated nLight® interface for Acuity Controls compatibility. Optional Casambi interface for Bluetooth® control. DALI and 0-10V compatible dimming.

**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.

**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 2"	6-3/8" diameter	Extension Kit p/n: K20266 (ordered separately, 1 per fixture)		Extends a pair of Bar Hangers Total Mounting Length: 29" to 48"

**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**

- Luminus tunable white COB:  
95 CRI, R9 > 70: SDCM = 4-step MacAdam Ellipse; Lumen Maintenance: L<sub>70</sub> > 54,000 hrs

- Nichia tunable white COB:  
80 CRI, R9 > 0: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L<sub>90</sub> > 33,000 hrs

LUMINUS TUNABLE WHITE - ORDERING CODE			LM-79	
SERIES	NU6			
TYPE	RD	round downlight		
LED	TW	Tunable White (Luminus)		
DELIVERED LUMENS	07LM	600 lm		
	10LM	800 lm		
	13LM	1000 lm		
	16LM	1200 lm		
	20LM	1500 lm		
	Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier] Standard Configuration: 3500K WH70			
CCT	2765		2700K to 6500K tunable white	
	CCT		2700K	3000K
	CCT MULTIPLIER FOR LUMEN OUTPUT		0.91	0.98
	EML RATIO <sup>2</sup>		0.49	0.57
			0.68	0.79
			0.96	1.04
CRI	95	95 CRI max at 3500K, 90 CRI at 6500K		
REFLECTOR & LM MULTIPLIER	HE40	40° high efficiency diffused lens (0.95)		
	HE50	50° high efficiency diffused lens (0.96)		
	HE65	65° high efficiency diffused lens (0.93)		
	D40	40° diffused with clear lens (0.89)		
	D60	60° diffused with clear lens (0.93)		
	WH70	70° brilliant white with clear lens (1.00)		
ACCESSORIES	HCL <sup>3</sup>	honeycomb louver		
VOLTAGE	120 UNV	120V 120V-277V		
DIMMING	CAS NLT	Casambi Bluetooth dimming to 0% nLight control interface: Standard Cat-5/RJ45 connection (female), dimming to 0%		
	DIM10Z <sup>1</sup>	eldoLED flicker free 0-10V dimming to 0%		
	DALIZ	eldoLED flicker free DALI dimming to 0%		
MOUNTING OPTIONS	NC	new construction with ceiling fitting plate		
	IC	insulation contact housing		
	ICAT	insulation contact/airtight housing		
	CP	chicago plenum housing		
	RET	retrofit, no ceiling fitting plate		
TRIM COLOR	BK	black		
	WH	white		
	MC	matte chrome		
	BZ	bronze		
	WT	wheat		
BEZEL COLOR	BK	black		
	WH	white		
	MC	matte chrome		
	BZ	bronze		
	WT	wheat		

ORDERING CODE

Follow the steps to specify your fixture, example:  
NU6 - RD - TW - 13LM - 2765 - 95 - HE40 - 120 - CAS - NC - WH - WH

LUMINUS (LED)	POWER
DELIVERED LM	W (95 CRI)
600	10
800	13
1000	15
1200	19
1550	25

Power Factor ≥ 0.9

**NOTES**

- Requires 2 wall controllers (see wiring diagram).
- EML = equivalent melanopic lux. To calculate EML, multiply the measured photopic lux by the EML ratio for the given CCT. Example: 254 lux x 0.79 = 200 melanopic lux at 4000K.
- HCL not available with lens. Multiply delivered lumens by (0.78) and beam spread by (0.80) when honeycomb louver is chosen.

## NICHIA TUNABLE WHITE - ORDERING CODE

SERIES	NU6					
TYPE	RD	round downlight				
LED	TW	Tunable White (Nichia)				
DELIVERED LUMENS	13LM	1050 lm				
	16LM	1300 lm				
	20LM	1600 lm				
	30LM	2400 lm				
	40LM	3200 lm				
	Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier] Standard Configuration: 3500K HE50					
CCT	2750	2700K to 5000K tunable white				
	CCT	2700K	3000K	3500K	4000K	5000K
	EML RATIO <sup>2</sup>	0.43	0.51	0.63	0.69	0.80
CRI	80	80+ CRI				
REFLECTOR & LM MULTIPLIER	HE35	35° high efficiency diffused lens (0.99)				
	HE50	50° high efficiency diffused lens (1.00)				
	HE80	80° high efficiency diffused lens (0.92)				
	SS20	20° semi-specular with clear lens (0.90)				
	SS30	30° semi-specular with clear lens (0.91)				
	D50	50° diffused with clear lens (0.90)				
	WH70	70° brilliant white with clear lens (0.96)				
ACCESSORIES	HCL <sup>3</sup>	honeycomb louver				
VOLTAGE	120 UNV	120V 120V-277V				
DIMMING	CAS NLT  DIM10Z <sup>1</sup> DALIZ	Casambi Bluetooth dimming to 0% nLight control interface: Standard Cat-5/RJ45 connection (female), dimming to 0% eldoLED flicker free 0-10V dimming to 0% eldoLED flicker free DALI dimming to 0%				
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	BK WH MC BZ WT	black white matte chrome bronze wheat				
BEZEL COLOR	BK WH MC BZ WT	black white matte chrome bronze wheat				

### ORDERING CODE

Follow the steps to specify your fixture, example:

NU6 - RD - TW - 30LM - 2750 - 80 - HE35 - 120 - CAS - NC - WH - WH

NICHIA (LED)	POWER	
DELIVERED LM	W (80 CRI) 2700K	W (80 CRI) 5000K
1050	15	12
1300	18	15
1600	22	18
2400	35	28
3200	51	41

Power Factor ≥ 0.9

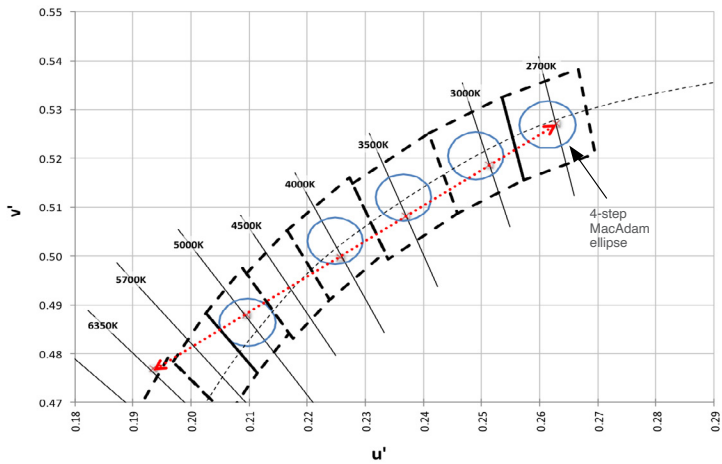
#### NOTES

- Requires 2 wall controllers (see wiring diagram).
- EML = equivalent melanopic lux. To calculate EML, multiply the measured photopic lux by the EML ratio for the given CCT.  
Example: 290 lux x 0.69 = 200 melanopic lux at 4000K.
- HCL not available with lens. Multiply delivered lumens by (0.78) and beam spread by (0.80) when honeycomb louver is chosen.

## TUNABLE WHITE

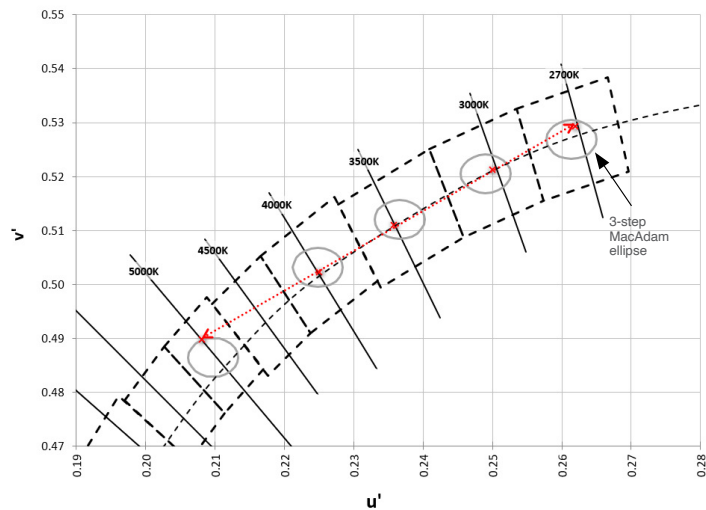
### LUMINUS 95CRI

Chromaticity Coordinates (CIE 1976) & CCT range



### NICHIA 80CRI

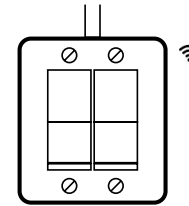
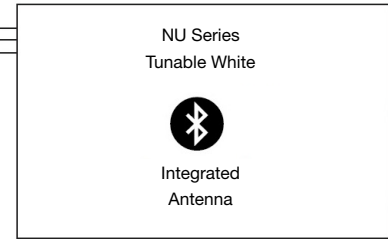
Chromaticity Coordinates (CIE 1976) & CCT range



## WIRING DIAGRAMS

### "CAS" CASAMBI CONTROLS

120/277VAC  
50/60Hz INPUT



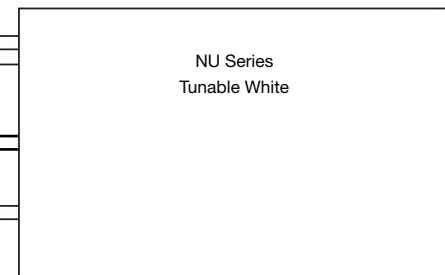
COMPATIBLE WIRELESS SWITCHES  
CCT & Light Intensity Control



CASAMBI™ APP (iOS & Android)  
Wireless Commissioning,  
CCT & Light Intensity Control

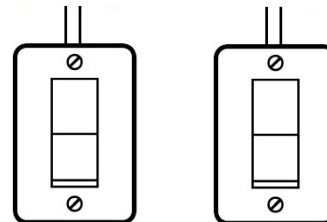
### "DIM10Z" HARDWIRED 0-10V CONTROL

120/277VAC  
50/60Hz INPUT



0-10V INPUT #1  
Light Intensity

0-10V INPUT #2  
CCT



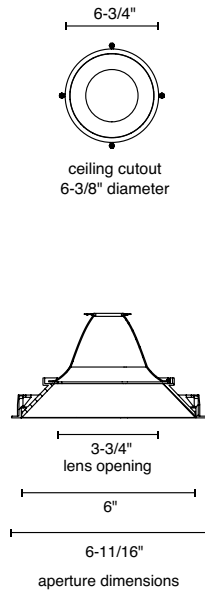
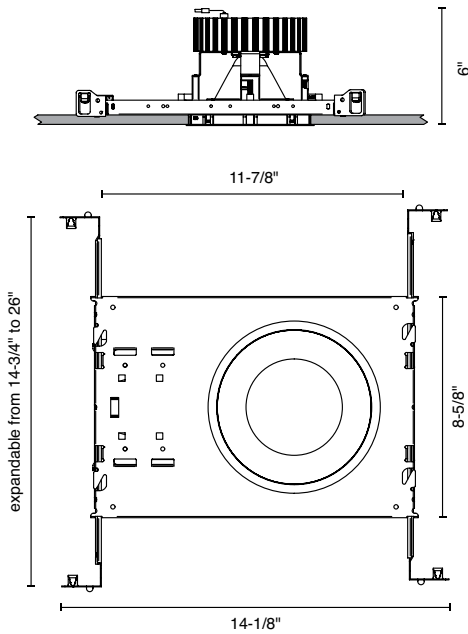
STANDARD 0-10V SWITCHES  
(provided by others)

#### NOTES

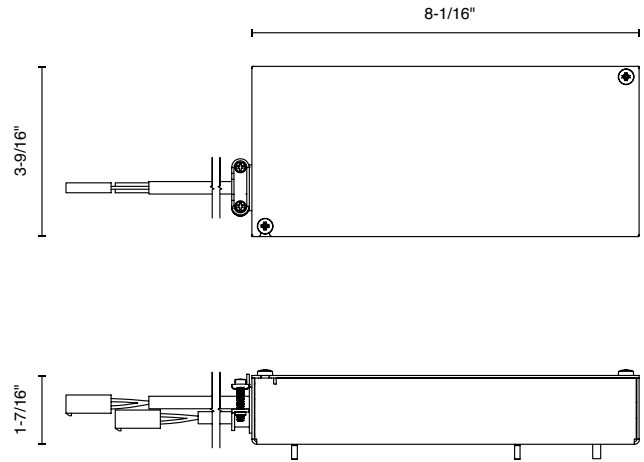
1. Consult factory to order compatible wireless switches.

**MOUNTING OPTIONS**

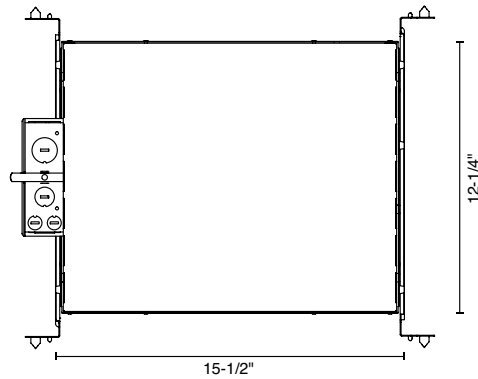
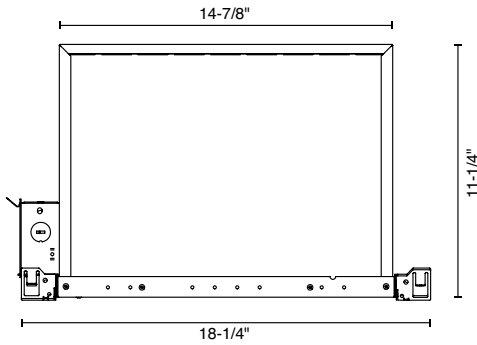
**NC - NEW CONSTRUCTION**



**RET - RETROFIT**



**IC - INSULATION CONTACT HOUSING**



**CP - CHICAGO PLENUM**

**ICAT - INSULATION CONTACT / AIR TIGHT**

