

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

CONTACT \_\_\_\_\_

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

**NU6"**

**Round Downlight  
Tunable White**

**LUMINUS**  
see page 1

**NICHIA**  
see page 2

**eldoLED**  
your product | our drive

**nLIGHT**

**HUMAN CENTRIC**



#### 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 minimalist 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
Trim	1/8" to 2"	6-3/8" 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

- Luminus tunable white COB:  
95 CRI, R9 > 70: SDCM = 4-step MacAdam Ellipse; Lumen Maintenance:  $L_{70} > 54,000$  hrs
- Nichia tunable white COB:  
80 CRI, R9 > 0: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance:  $L_{90} > 33,000$  hrs

#### LUMINUS TUNABLE WHITE - ORDERING CODE



LM-79

SERIES	NU6							
TYPE	RD	round downlight						
LED	TW	Tunable White (Luminus)						
DELIVERED LUMENS	07LM 10LM 13LM 16LM 20LM	600 lm 800 lm 1000 lm 1200 lm 1550 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	3500K	4000K	5000K	5700K
		CCT MULTIPLIER FOR LUMEN OUTPUT	0.91	0.98	1.00	0.99	1.00	1.01
		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 HE50 HE65 D40 D60 WH70	40° high efficiency diffused lens (0.95) 50° high efficiency diffused lens (0.96) 65° high efficiency diffused lens (0.93) 40° diffused with clear lens (0.89) 60° diffused with clear lens (0.93) 70° brilliant white with clear lens (1.00)						
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 - 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

1. Requires 2 wall controllers (see wiring diagram).
2. 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.
3. 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**

<b>SERIES</b>	NU6						
<b>TYPE</b>	RD round downlight						
<b>LED</b>	TW Tunable White (Nichia)						
<b>DELIVERED LUMENS</b>	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						
<b>CCT</b>	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
<b>CRI</b>	80	80+ CRI					
<b>REFLECTOR &amp; LM MULTIPLIER</b>	HE35 HE50 HE80 SS20 SS30 D50 WH70	35° high efficiency diffused lens (0.99) 50° high efficiency diffused lens (1.00) 80° high efficiency diffused lens (0.92) 20° semi-specular with clear lens (0.90) 30° semi-specular with clear lens (0.91) 50° diffused with clear lens (0.90) 70° brilliant white with clear lens (0.96)					
<b>ACCESSORIES</b>	HCL <sup>3</sup>	honeycomb louver					
<b>VOLTAGE</b>	120 UNV	120V 120V-277V					
<b>DIMMING</b>	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%					
<b>MOUNTING OPTIONS</b>	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					
<b>TRIM COLOR</b>	BK WH MC BZ WT	black white matte chrome bronze wheat					
<b>BEZEL COLOR</b>	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	
	W (80 CRI) 2700K	W (80 CRI) 5000K
DELIVERED LM		
1050	15	12
1300	18	15
1600	22	18
2400	35	28
3200	51	41

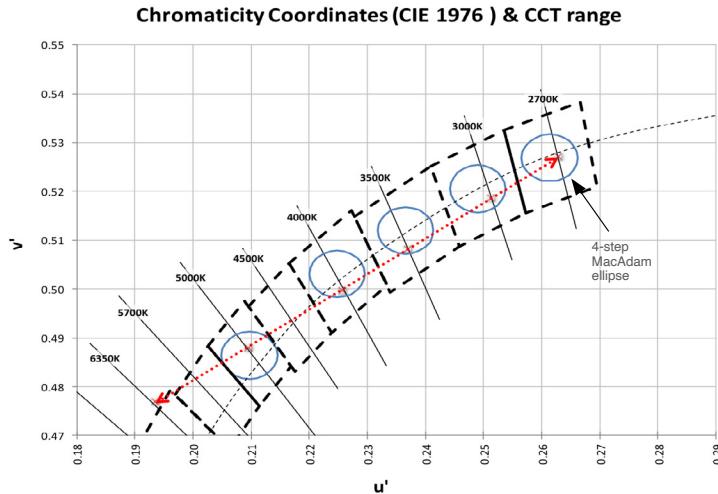
Power Factor ≥ 0.9

**NOTES**

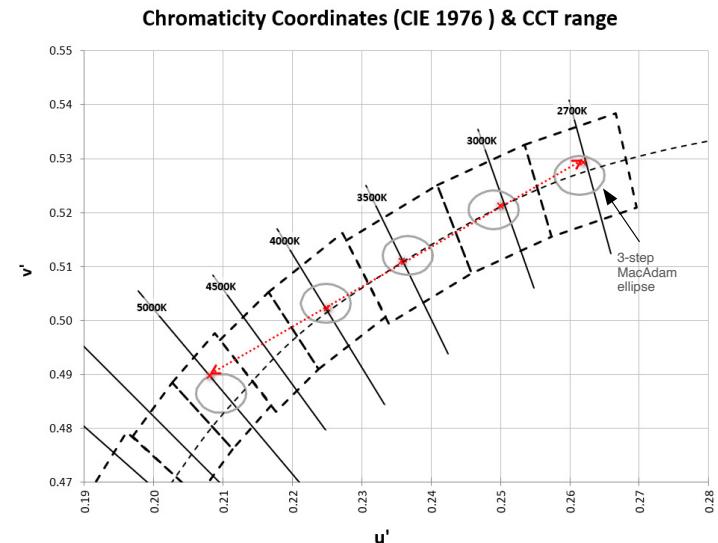
- Requires 2 wall controllers (see wiring diagram).
- EML = equivalent melanopic lux. To calculate EML, multiply the measured photopic lux by the EML ratio for the given CCT. Example: 290 lux x 0.69 = 200 melanopic lux at 4000K.
- HCL not available with lens. Multiply delivered lumens by (0.78) and beam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

**TUNABLE WHITE**

**LUMINUS 95CRI**

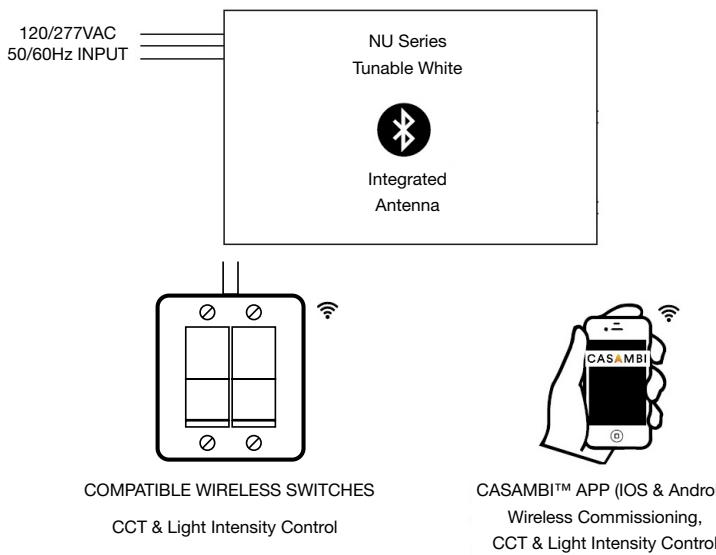


**NICHIA 80CRI**

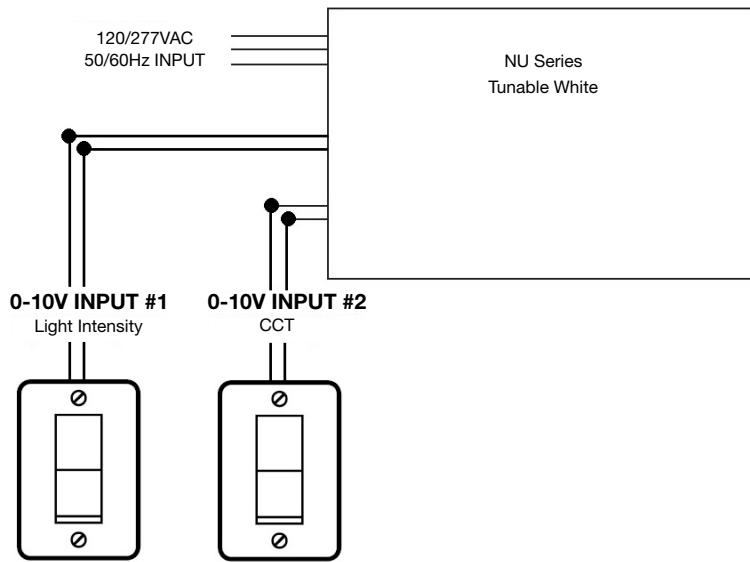


**WIRING DIAGRAMS**

**"CAS" CASAMBI CONTROLS**



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

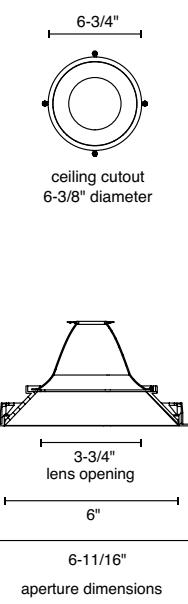
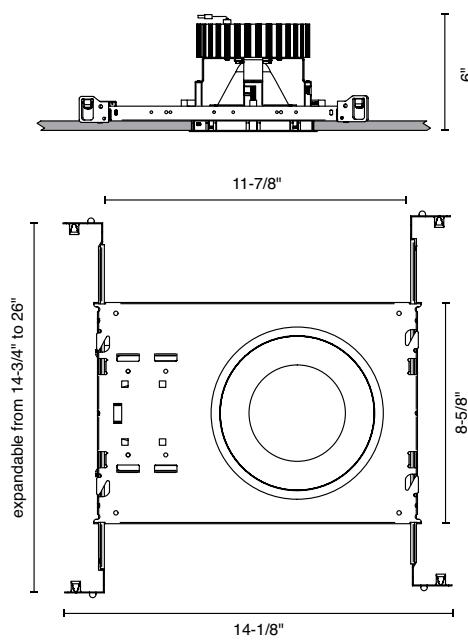


**NOTES**

1. Consult factory to order compatible wireless switches.

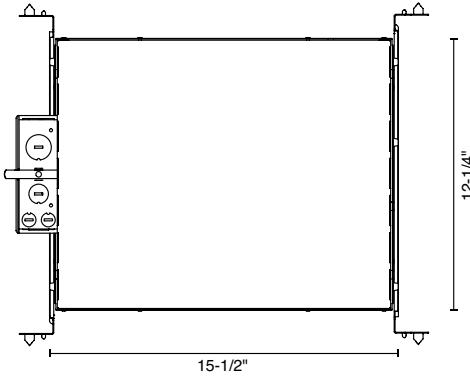
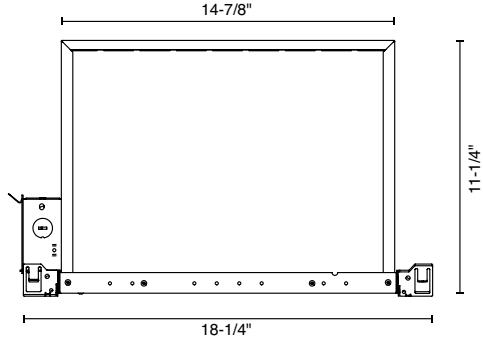
## MOUNTING OPTIONS

### NC - NEW CONSTRUCTION



### RET - RETROFIT

### IC - INSULATION CONTACT HOUSING



### CP - CHICAGO PLENUM

### ICAT - INSULATION CONTACT / AIR TIGHT

