

JOB NAME _____

CONTACT _____

ORDERING CODE _____

NU6"

**Square Downlight
Tunable White**

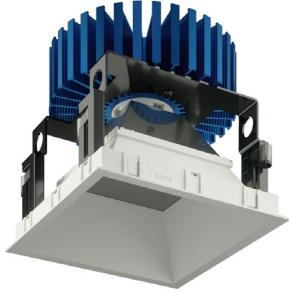
 **LUMINUS**
see page 1

 **NICHIA**
see page 2

 **eldoLED**
your product | our drive

 **nLIGHT**

 **HUMAN CENTRIC**



DESCRIPTION

The NU6QD-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 1-5/8"	6-1/4" square

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	QD	square downlight							
LED	TW	Tunable White (Luminus)							
DELIVERED LUMENS	07LM 10LM 13LM 16LM 20LM	595 lm 850 lm 1040 lm 1285 lm 1700 lm							
Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier] Standard Configuration: 3500K WH85									
CCT	2765	2700K to 6500K tunable white							
		CCT	2700K	3000K	3500K	4000K	5000K	5700K	6500K
		CCT MULTIPLIER FOR LUMEN OUTPUT							
		0.91	0.98	1.00	0.99	1.00	1.01	1.02	
		EML RATIO ²							
		0.49	0.57	0.68	0.79	0.96	1.04	1.12	
CRI	95	95 CRI max at 3500K, 90 CRI at 6500K							
REFLECTOR & LM MULTIPLIER	HE65 HE75 D75 WH85	65° high efficiency diffused lens (0.88) 75° high efficiency diffused lens (0.95) 75° diffused with clear lens (0.95) 85° brilliant white with clear lens (1.00)							
VOLTAGE	120 UNV	120V 120V-277V							
DIMMING	CAS NLT DIM10Z ¹ 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 RET CP	new construction with ceiling fitting plate insulation contact housing insulation contact/airtight housing retrofit, no ceiling fitting plate chicago plenum housing							
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 - QD - TW - 13LM - 2765 - 95 - WH85 - 120 - CAS - NC - WH - WH

LUMINUS (LED)	POWER
DELIVERED LM	W (95 CRI)
595	10
850	13
1040	15
1285	19
1700	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 \times 0.79 = 200 melanopic lux at 4000K.

NICHIA TUNABLE WHITE - ORDERING CODE

SERIES	NU6															
TYPE	QD square downlight															
LED	TW Tunable White (Nichia)															
DELIVERED LUMENS	13LM	1050 lm														
	16LM	1300 lm														
DELIVERED LUMENS	20LM	1600 lm														
	30LM	2400 lm														
DELIVERED LUMENS	40LM	3200 lm														
	Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier] Standard Configuration: 3500K WH85															
CCT	2750	2700K to 5000K tunable white														
		<table border="1"> <tr> <td>CCT</td> <td>2700K</td> <td>3000K</td> <td>3500K</td> <td>4000K</td> <td>5000K</td> </tr> <tr> <td>EML RATIO^c</td> <td>0.43</td> <td>0.51</td> <td>0.63</td> <td>0.69</td> <td>0.80</td> </tr> </table>	CCT	2700K	3000K	3500K	4000K	5000K	EML RATIO ^c	0.43	0.51	0.63	0.69	0.80		
CCT	2700K	3000K	3500K	4000K	5000K											
EML RATIO ^c	0.43	0.51	0.63	0.69	0.80											
CRI	80	80+ CRI														
REFLECTOR & LM MULTIPLIER	HE70 HE85 D75 WH85	70° high efficiency diffused lens (0.88) 85° high efficiency diffused lens (0.95) 75° diffused with clear lens (0.95) 85° brilliant white with clear lens (1.00)														
VOLTAGE	120 UNV	120V 120V-277V														
DIMMING	CAS NLT DIM10Z ¹ DALIZ	Casambi Bluetooth dimming to 0% nLight control interface: Standard Cat-5/RJ45 connection (female), dimming to 0% elidoLED flicker free 0-10V dimming to 0% elidoLED flicker free DALI dimming to 0%														
MOUNTING OPTIONS	NC IC ICAT RET CP	new construction with ceiling fitting plate insulation contact housing insulation contact/airtight housing retrofit, no ceiling fitting plate chicago plenum housing														
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 - QD - TW - 30LM - 2750 - 80 - HE85 - 120 - CAS - NC - WH - WH

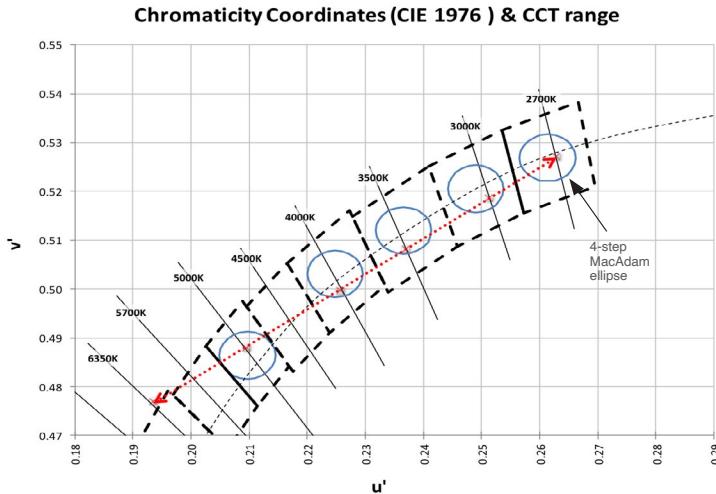
NICHIA (LED)	POWER	
DELIVERED LM	W (80 CRI) 2700K	W (80 CRI) 5000K
1050	15	12
1300	18	15
1600	22	18
2400	35	28
3200	51	41

 Power Factor ≥ 0.9
NOTES

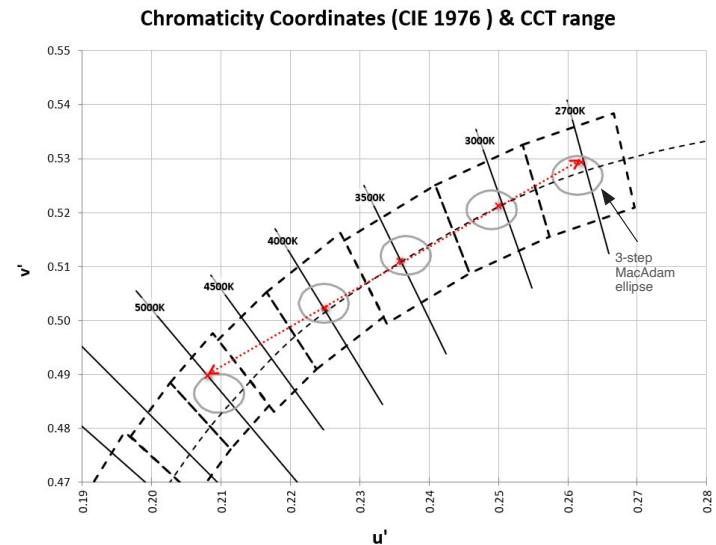
1. Requires 2 wall controllers (see wiring diagram).
2. EML = equivalent melanopic lux. To calculate EML, multiply the measured photopic lux by the EML ratio for the given CCT.
Example: 290 lux x 0.69 = 200 melanopic lux at 4000K.

TUNABLE WHITE

LUMINUS 95CRI

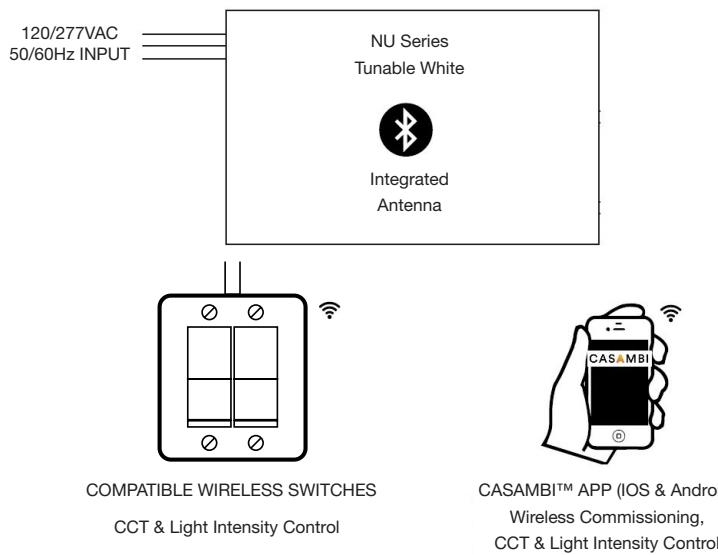


NICHIA 80CRI

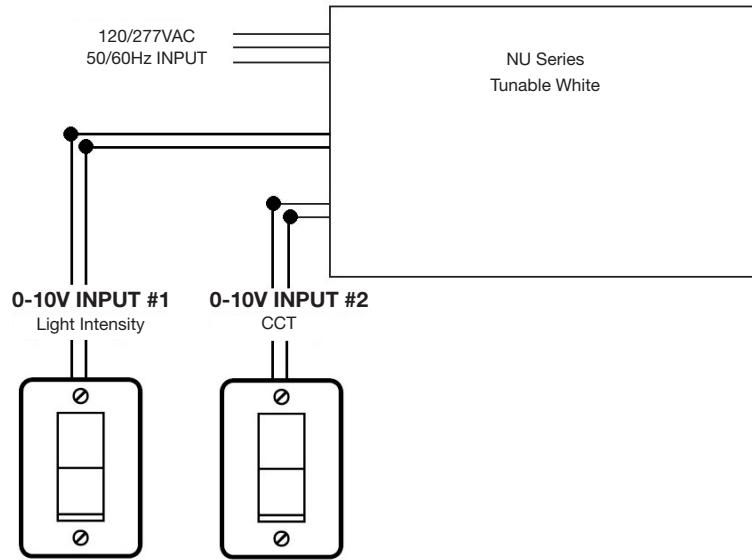


WIRING DIAGRAMS

"CAS" CASAMBI CONTROLS



"DIM10Z" HARDWIRED 0-10V CONTROL

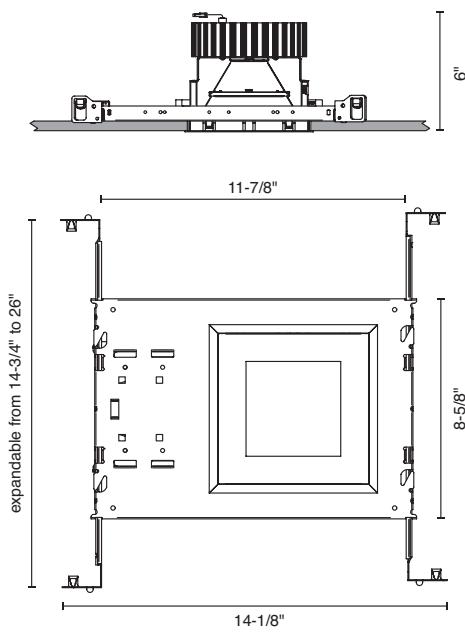


NOTES

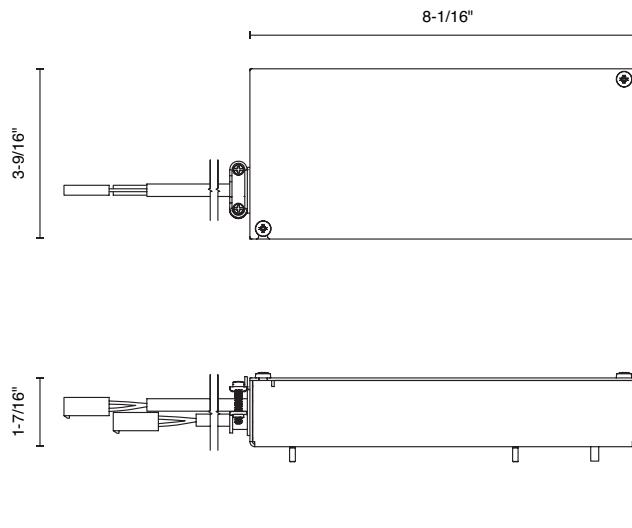
1. Consult factory to order compatible wireless switches.

MOUNTING OPTIONS

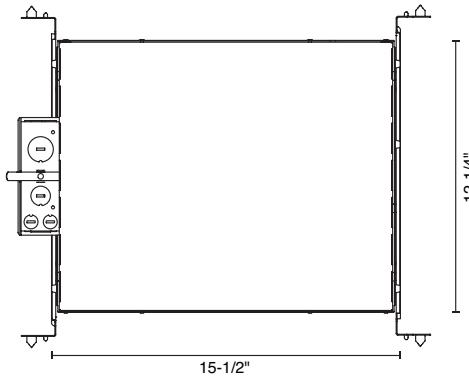
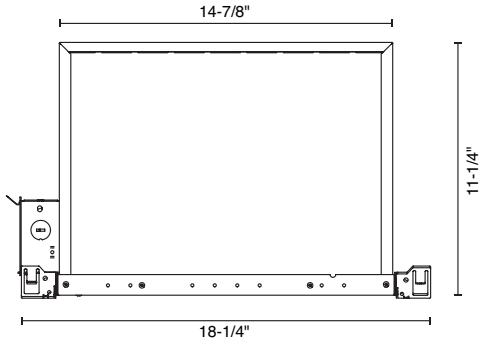
NC - NEW CONSTRUCTION



RET - RETROFIT



IC - INSULATION CONTACT HOUSING



CP - CHICAGO PLENUM

ICAT - INSULATION CONTACT / AIR TIGHT

