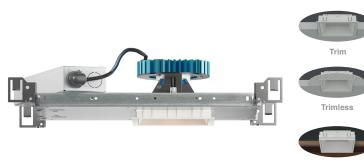


PROJECT INFORMATION PROJECT INFORMATION					
JOB NAME		TYPE			
ORDERING CODE					

NU4

4" Square Downlight Tunable White



DESCRIPTION

The NU4QD-TW 4" 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 standard premium dimming using the EldoLED flicker-free driver with LightShape technology at 120V-277V universal voltage. 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 wireless control. DALI and 0-10V compatible dimming. 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.

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 vibrationresistant 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"	4-1/4" square
Trimless	3/8" to 1-3/4"	4-1/2" square
Millwork (Trimless)	5/8" to 1-3/4"	4-1/4" square

New Construction	Mounting Length:
Bar Hangers (included)	14-3/4" to 26"
	E-44

Extension Kit p/n: K20266

ends a pair of Bar Hang Total Mounting Length:

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.
- Declare. LBC Red List Approved

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

- Luminus tunable white COB:
- 95 CRI, R9 > 70: SDCM = 4-step MacAdam Ellipse; Lumen Maintenance: L₇₀ > 54,000 hrs
- Nichia tunable white COB:
- 80 CRI, R9 > 0: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L₉₀ > 33,000 hrs

	LUMINUS TUN	ABLE WHI	TE - ORDE	RIN	G CC	DE				
ľ	SERIES	NU4								
	TYPE	QD QDT QDTMW	square downli square downli square downli	ght trir		nillwor	k			
ľ	LED	TW	tunable white	(Lumir	nus)					
	DELIVERED LUMENS	07LM 10LM 13LM 16LM 20LM Calculated Deliver Standard Configur	775 Im 980 Im 1200 Im 1450 Im 1450 Im 1865 Im elivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier] rfiguration: 3500K WH85							
ı		2765	2700K to 6500K tunable white							
ı			ССТ	2700K	3000K	3500K	4000K	5000K	5700K	6500K
ı			CCT MULTIPLIER FOR LUMEN OUTPUT	0.91	0.98	1.00	0.99	1.00	1.01	1.02
ı	0.07		EML RATIO ²	0.49	0.57	0.68	0.79	0.96	1.04	1.12
ı	ССТ	1840	1800K to 4000)K tuna	able w	nite				
ı			ССТ	1800K	2000K	2400K	2700K	3000K	3500K	4000K
ı			CCT MULTIPLIER FOR LUMEN OUTPUT	0.67	0.74	0.8	0.85	0.88	0.95	1.01
ı			EML RATIO ²	0.21	0.33	0.46	0.53	0.59	0.67	0.73
l	CRI	95	95 typical, 90 minimum 60° high efficiency diffused lens (0.88) 75° high efficiency diffused lens (0.95) 70° diffused with clear lens (0.92) 85° brilliant white with clear lens (1.00)							
	REFLECTOR & LM MULTIPLIER	HE60 HE75 D70 WH85								
	VOLTAGE	120 UNV	120V 120V-277V							
	DIMMING	CASZ NLT	Casambi dim t	interfa		ndard	Cat-5/	RJ45 (connec	ction
	DIMMING	DIM10Z DALIZ ¹	(female), dim feldoLED flicke	r free	0-10V DALI-2	dimmi 2 dimm	ng to C ning to	0% 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 Not applicable to t	black white matte chrome bronze wheat to trimless option. Do not include in trimless ordering code.							
	BEZEL COLOR	BK WH MC BZ WT	black white matte chrome bronze wheat							

ORDERING CODE

Follow the steps to specify your fixture, example:

NU4 - QD - TW - 13LM - 2765 - 95 - WH85 - 120 - CAS - NC - WH - WH

LUMINUS (LED)	POWER
DELIVERED LM	W (95 CRI)
775	10
980	13
1200	15
1450	19
1865	25

Power Factor ≥ 0.9

Requires 2 wall controllers (see wiring diagram).
 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 v. 0.79 = 200 melanopic lux at 4000K.

NU4QD-TW



PROJECT INFORMATION				
JOB NAME		TYPE		
ORDERING CODE				

NICHIA TUNABLE WHITE - ORDERING CODE

NICHIA I UNAL	SLE WHILE	E - UKDEKING	5 C(JUE			
SERIES	NU4						
TYPE	QD QDT QDTMW	square downlight square downlight square downlight			llwoı	k	
LED	TW	tunable white (Nic	hia)				
DELIVERED LUMENS	13LM 16LM 20LM 30LM Calculated Delive Standard Configu	1 1300 lm 1 1600 lm					
	2750	2700K to 5000K to	ınable	e whi	te		
сст		ССТ	2700K	3000K	3500K	4000K	5000K
		EML RATIO ² 0.43 0.51 0.63 0.69 0.80		0.80			
CRI	80	80 CRI					
REFLECTOR & LM MULTIPLIER	HE65 HE75 HE85 D70 WH85	65° high efficiency diffused lens (0.89) 75° high efficiency diffused lens (0.87) 86° high efficiency diffused lens (0.95) 70° diffused with clear lens (0.91) 85° brilliant white with clear lens (1.00)					
VOLTAGE	120 UNV	120V 120V-277V					
DIMMINIC	CASZ NLT	Casambi dim to zero nLight control interface: standard Cat-5/RJ45 connection					
DIMMING	DIM10Z DALIZ ¹	(female), dim to off eldoLED flicker free 0-10V dimming to 0% eldoLED flicker free DALI-2 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 Not applicable to	black white matte chrome bronze wheat trimless option. Do not include in trimless ordering code.					
BEZEL COLOR	BK WH MC BZ WT	black white matte chrome bronze wheat					

ORDERING CODE -

Follow the steps to specify your fixture, example: NU4 - QD - TW - 13LM - 2750 - 80 - HE65 - 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			

Power Factor ≥ 0.9

NOTES

1. Requiries 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.

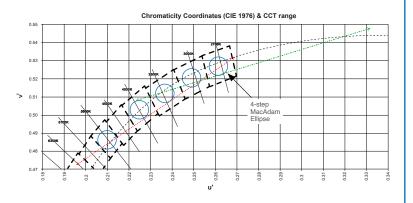
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alphabet

PROJECT INFORMATION					
JOB NAME		TYPE			
ORDERING CODE					

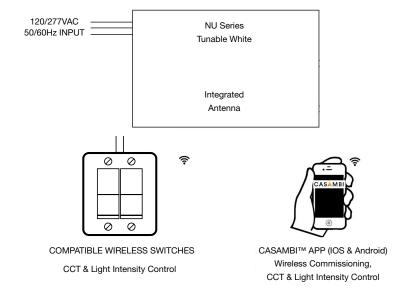
TUNABLE WHITE

LUMINUS 95CRI



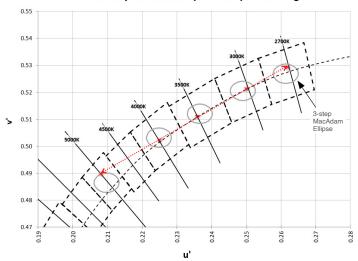
WIRING DIAGRAMS

"CAS" CASAMBI CONTROLS



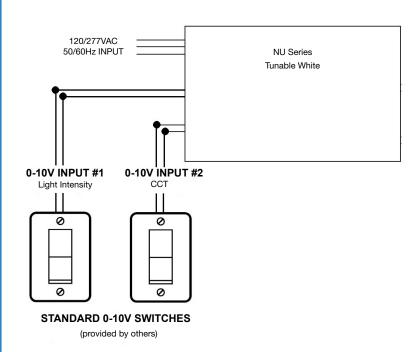
NICHIA 80CRI

Chromaticity Coordinates (CIE 1976) & CCT range



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.

"DIM10Z" HARDWIRED 0-10V CONTROL



NOTES

1 Consult factory to order compatible wireless switches.

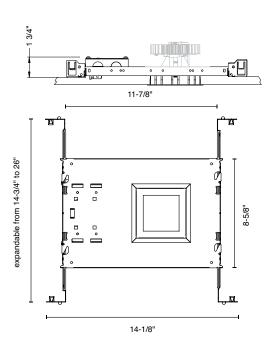


PROJECT INFORMATION					
JOB NAME		TYPE			
ORDERING CODE					

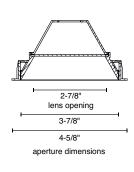
MOUNTING OPTIONS

NC - NEW CONSTRUCTION

TRIM

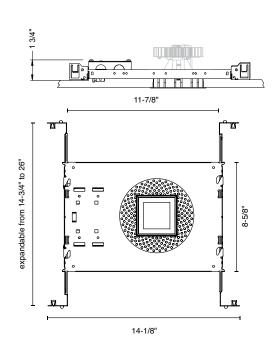






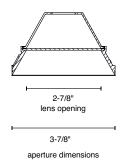
NC - NEW CONSTRUCTION

TRIMLESS





ceiling cutout 4-1/2" square





1. Fasten mud frame to ceiling.



3. Install LED assembly



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



4. Install bezel.

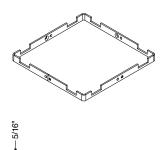


PROJECT INFORMATION					
JOB NAME		TYPE			
ORDERING CODE					

MOUNTING OPTIONS (CONTINUED)

QDTMW - MILLWORK

TRIMLESS



Millwork Mounting Bracket

NOTES

- 1 Ceiling cutout 4-1/4" x 4-1/4".
 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).



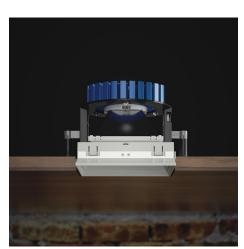
3. Remove Plastic Spacer.



4. Install Luminaire.



5. Insert Bezel to finish the installation.



v.9.4.25

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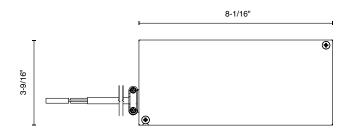


PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS (CONTINUED)

RET - RETROFIT

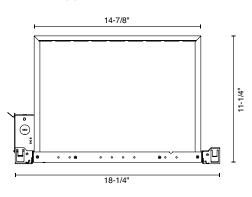
TRIM/TRIMLESS

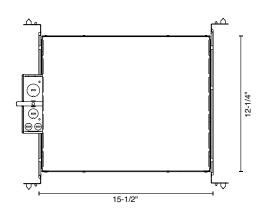




IC - INSULATION CONTACT HOUSING

TRIM/TRIMLESS





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

