ALPHABET

Alphabet by Ledra Brands, Inc. | 88 Maxwell, Irvine, CA 92618 | PH: 714.259.9959 FAX: 714.259.9969 | AlphabetLighting.com

Qship

ENERGY STAR *see page 5* | made in the USA | LM-79

JOB NAME

CONTACT

ORDERING CODE

NU3"
Square Downlight XICATO

XICATO | LUTRON OEM ADVANTAGE ACCOUNT | eldoLED® your product | our drive

Trim

Trimless

Trimless Millwork
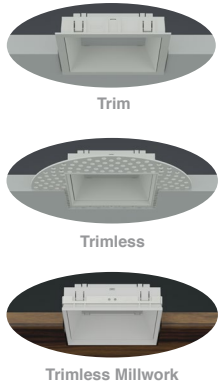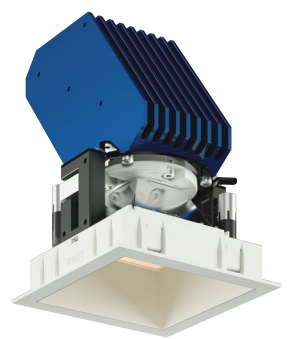
DESCRIPTION

The NU3QD 3" recessed downlight by ALPHABET offers multiple cutting edge LED technologies, premium performance, thoughtful construction and pleasing aesthetics. Offered standard with premium dimming using EldoLED 1% flicker free drivers 120V-277V universal voltage. Several beam angles available, plus an optional high-efficiency BrightView diffused lens for smooth light distribution and obscured LED image.

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. 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
Trim	1/8" to 1-1/4"	3-1/4" square
Trimless	3/8" to 1-3/4"	3-1/2" square
Millwork (Trimless)	5/8" to 1-3/4"	3-9/32" 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

- SDCM = 1X2 MacAdam Ellipse, Duv +/- 0.001, Lumen Maintenance: L_{90} > 55,000 hrs

XICATO XTM MODULE - ORDERING CODE

SERIES	NU3	
TYPE	QD QDT QDTMW	square downlight square downlight trimless square downlight trimless millwork
LED	XTM19	XICATO XTM 19mm
DELIVERED LUMENS	07LM 10LM 13LM 20LM 30LM[2] 40LM[2]	610 lm 870 lm 1130 lm 1740 lm 2700 lm 3400 lm
CCT	27K 30K 35K 40K	2700K 3000K 3500K 4000K
CRI	83 90 98[2]	83 CRI 90 CRI 98 CRI
REFLECTOR & LM MULTIPLIER	HE60 HE80 S55 D65 WH80	60° high efficiency diffused lens (0.96) 80° high efficiency diffused lens (0.98) 55° specular with clear lens (1.00) 65° diffused with clear lens (0.98) 80° brilliant white with clear lens (0.99)
NO LENS OPTION	NL[4]	no lens
VOLTAGE	120 UNV	120V 120V-277V
DIMMING	DIM10[5] DIM10Z[5] DALI[5] DALIZ[5] DMXZ LUT[7] LUTP[7] ELV[6]	eldoLED flicker free 0-10V dimming to 1% eldoLED flicker free 0-10V dimming to 0% eldoLED flicker free DALI dimming to 1% eldoLED flicker free DALI dimming to 0% DMX dim to zero Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black leading & trailing edge dimming (Triac/ELV)
MOUNTING OPTIONS	NC IC[1] ICAT[1] CP[1] 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 Not applicable to trimless option. Do not include in trimless ordering code.
BEZEL COLOR	BK WH MC BZ WT	black white matte chrome bronze wheat
ELECTRICAL OPTIONS	EM7 EM12[3]	emergency battery backup, 90 minutes at 7W to LED emergency battery backup, 90 minutes at 12W to LED

ORDERING CODE

Follow the steps to specify your fixture, example:
NU3 - QD - XTM19 - 13LM - 35K - 98 - HE60 - 120 - DIM10 - NC - WH - WH - EM7

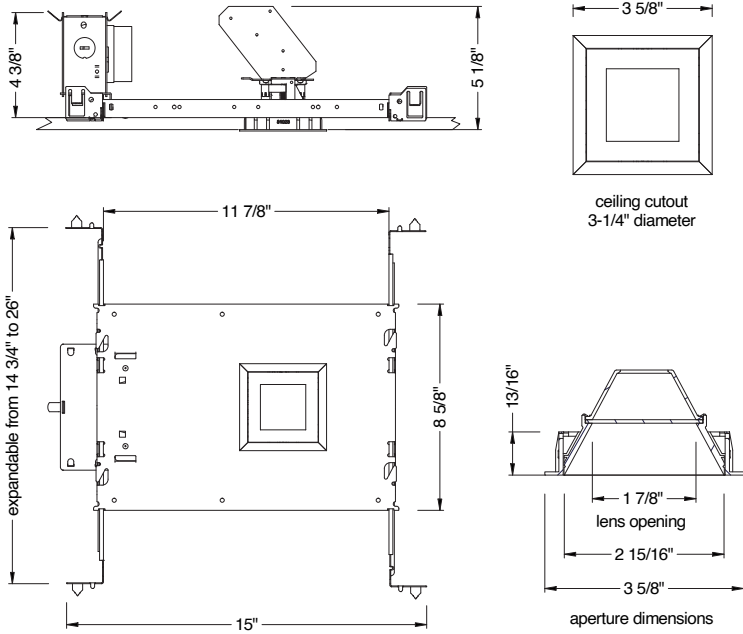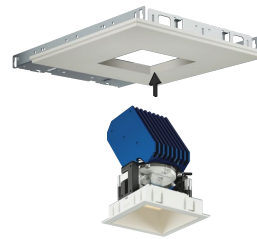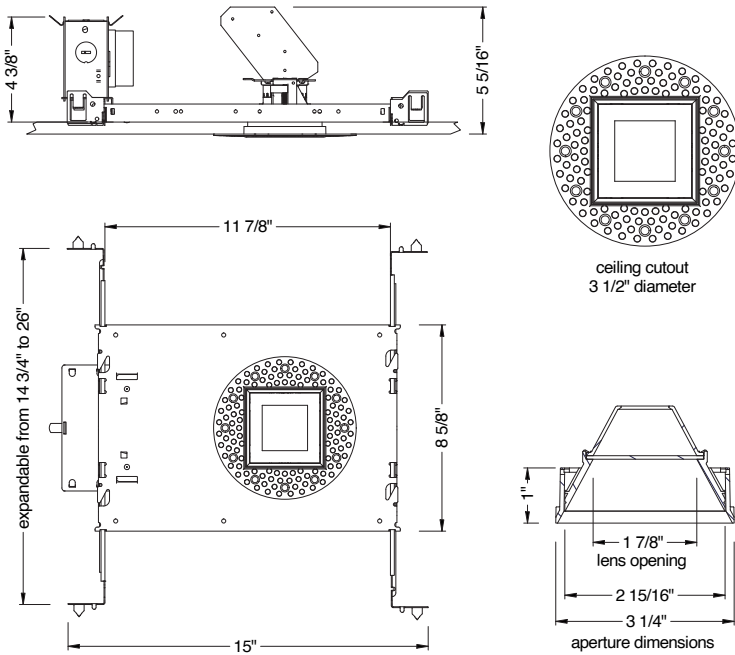| XTM19 (LED)	POWER		
DELIVERED LM	W (83 CRI)	W (90 CRI)	W (98 CRI)
610	8	10	11
870	11	14	15
1130	14	19	21
1740	20	25	27
2700	35	38	42
3400	46	N/A	N/A

Power Factor ≥ 0.9

NOTES
1. IC/ICAT/CP not available for 30LM and 40LM in 83CRI, 90CRI and 98CRI. Not available for 20LM in 98CRI.
2. 40LM not available in 90CRI and 98CRI.
3. EM12 not available for 83CRI and 90CRI in 07LM, 10LM and 98CRI in 07LM.
4. No lens option available for S55, D65 or WH80 and is damp location rated.
5. Driver uses logarithmic dimming curve as standard. For linear dimming curve add "LIN" after dimming code, i.e. DIM10LIN.
6. Triac/ELV dimming not available in 07LM. Dimmable to < 10% in 10LM, 13LM, 120V only. Dimmable to < 1% in 20LM, 30LM and 40LM.
7. LUT/LUTP not available in 20LM, 30LM and 40LM.

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MOUNTING OPTIONS

NC - NEW CONSTRUCTION
TRIM

3 5/8"

4 3/8"

5 1/8"

ceiling cutout
3-1/4" diameter

11 7/8"

expandable from 14 3/4" to 26"

8 5/8"

15"

13/16"

1 7/8"
lens opening

2 15/16"

3 5/8"

aperture dimensions

NC - NEW CONSTRUCTION
TRIMLESS

4 3/8"

5 5/16"

ceiling cutout
3 1/2" diameter

11 7/8"

expandable from 14 3/4" to 26"

8 5/8"

15"

1"

1 7/8"
lens opening

2 15/16"

3 1/4"

aperture dimensions

1. Fasten mud frame to ceiling.

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

3. Install LED assembly.

4. Install bezel.

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MOUNTING OPTIONS (CONTINUED)

QDTMW – MILLWORK
TRIMLESS

5/16"
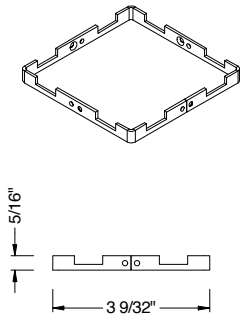
3 9/32"

Millwork Mounting Bracket

NOTES
1 Ceiling cutout 3-9/32" x 3-9/32".
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).
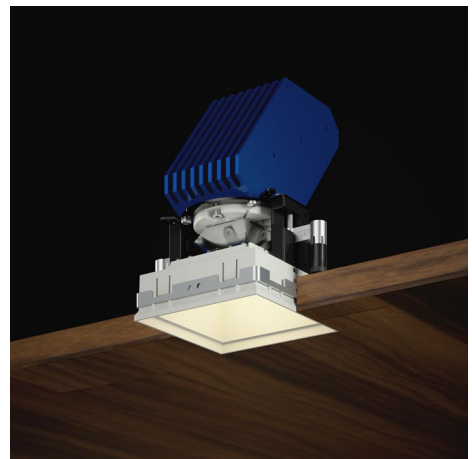

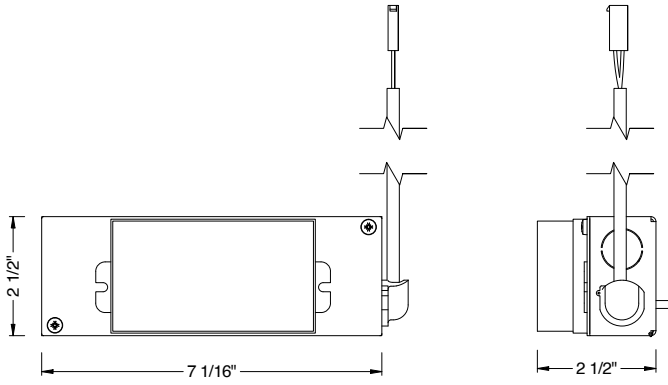3. Remove Plastic Spacer.

4. Install Luminaire.

5. Insert Bezel to finish the installation.

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MOUNTING OPTIONS (CONTINUED)

RET - RETROFIT
TRIM/TRIMLESS

2 1/2"

7 1/16" 2 1/2"

IC - INSULATION CONTACT HOUSING
TRIM/TRIMLESS

11 3/4" 6 3/4" 8 5/8"

15" 12 3/8"
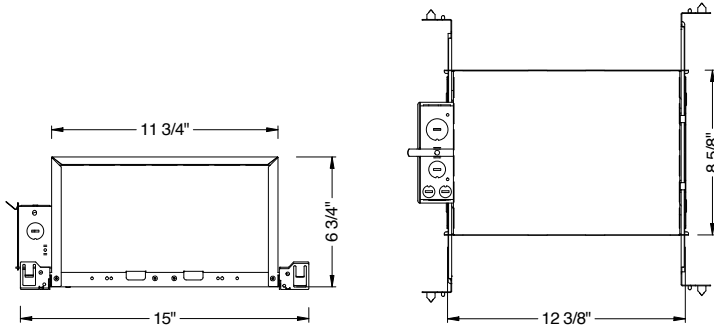
CP - CHICAGO PLENUM
ICAT - INSULATION CONTACT / AIR TIGHT
TRIM/TRIMLESS

14 7/8" 11 3/8" 12 1/4"

18 1/4" 15 1/2"

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ENERGY STAR - ORDERING CODE

| SERIES	NU3	
TYPE	QD	square downlight
	QDT	square downlight trimless
	QDTMW	square downlight trimless millwork
LED	XTM19	XICATO XTM 19mm
DELIVERED LUMENS	10LM	870 lm
	13LM	1130 lm
CCT	27K	2700K
	30K	3000K
	35K	3500K
	40K	4000K
CRI	83	83 CRI
	90	90 CRI
REFLECTOR & LM MULTIPLIER	HE60	60° high efficiency diffused lens (0.96)
	HE80	80° high efficiency diffused lens (0.98)
	S55	55° specular with clear lens (0.97)
	WH80	80° brilliant white with clear lens (0.99)
VOLTAGE	120	120V
	277	277V
DIMMING	DIM10	eldoLED flicker free 0-10V dimming to 1%
MOUNTING OPTIONS	NC	new construction with ceiling fitting plate
	IC	insulation contact housing
	ICAT	insulation contact/airtight housing
	RET	retrofit, no ceiling fitting plate
TRIM COLOR	WH	white
		Not applicable to trimless option. Do not include in trimless ordering code.
BEZEL COLOR	WH	white
ENERGY STAR	ES	energy star

ORDERING CODE

Follow the steps to specify your fixture, example:
NU3 - QD - XTM19 - 13LM - 27K - 90 - HE60 - 120 - DIM10 - IC - WH - WH - ES

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0-20	377.31	N.A.	34.40
0-30	684.78	N.A.	62.50
0-40	932.67	N.A.	85.10
0-60	1053.44	N.A.	96.10
0-80	1089.82	N.A.	99.50
0-90	1093.01	N.A.	99.80
10-90	982.64	N.A.	89.70
20-40	555.35	N.A.	50.70
20-50	643.82	N.A.	58.80
40-70	144.80	N.A.	13.20
60-80	36.37	N.A.	3.30
70-80	12.35	N.A.	1.10
80-90	3.19	N.A.	0.30
90-110	0.94	N.A.	0.10
90-120	1.35	N.A.	0.10
90-130	1.73	N.A.	0.20
90-150	2.31	N.A.	0.20
90-180	2.66	N.A.	0.20
110-180	1.72	N.A.	0.20
0-180	1095.67	N.A.	100.00

Total Luminaire Efficiency = N.A.%

Zonal Lumen Summary

Zone	Lumens
0-10	110.37
10-20	266.95
20-30	307.46
30-40	247.89
40-50	88.46
50-60	32.31
60-70	24.03
70-80	12.35
80-90	3.19
90-100	0.50
100-110	0.44
110-120	0.41
120-130	0.37
130-140	0.32
140-150	0.26
150-160	0.19
160-170	0.12
170-180	0.04

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14670	14670	14670
55	6117	6117	6117
65	5779	5779	5779
75	4407	4407	4407
85	3077	3077	3077

Polar Candela Distribution
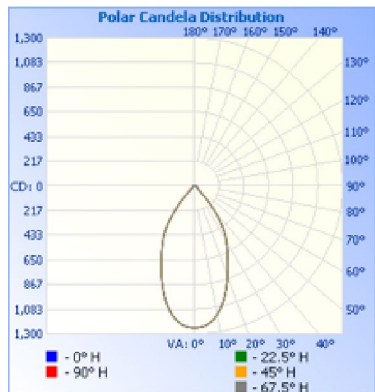
Illuminance at a Distance

	Center Beam fc	Beam Width
1.7ft	424 fc	1.8 ft
3.3ft	113 fc	3.4 ft
5.0ft	49.0 fc	5.2 ft
6.7ft	27.3 fc	6.9 ft
8.3ft	17.8 fc	8.6 ft
10.0ft	12.3 fc	10.3 ft

Beam Spread: 54.6°

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. | v.4.8.22 | NU3QD | Page 5 of 5

100148