alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

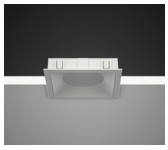
NU1

1" Square Downlight Tunable White

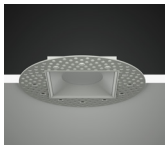
NSF · AT airtight · PR plenum rated · wet rated

20° - 60° BEAM (Note: Specifications are subject to change without notice)			
6mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
07LM	730LM @30K/95CRI	175mA	7W
Notes	Delivered lumens based on 60D optic with no lens, (see page 2)		





Trim



Trimless



Trimless Millwork

FEATURES

- 3/8" bezel regress with 1/16" micro flange
- 20° - 60° optical beam control
- UGR < 19
- Up to 70 LPW
- Glare control, specialty optics, trim options, and custom finishes available
- Microban® antimicrobial finish available on all exposed painted surfaces

DIMMING AND CONTROLS

- eldoLED flicker free 0-10V dimming to 0%
- eldoLED flicker free DALI dimming to 0%
- Casambi dimming to 0%
- NLight control interface dimming to 0%
- All driver offerings are remote with above ceiling access, see page 3 for details.
- Refer to DX remote panels for additional options.

CONSTRUCTION

- High-grade die-cast and cold forged aluminum alloy assembly that has superior thermal and corrosion resistance properties.
- Shatter proof acrylic bezel lens
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/8" to 1-1/2", On-field thick ceiling adjustment

LED

- Luminus tunable white COB from 2700K - 6500K: 95 CRI, R9 > 70: SDCM = 4-step MacAdam Ellipse; Lumen Maintenance: L_{70} > 54,000 hrs

LISTING

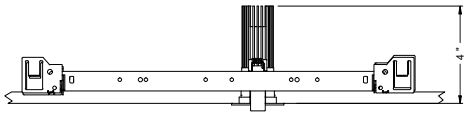
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

ELECTRICAL

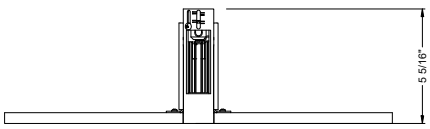
- Low voltage luminaire: 36Vdc nominal
- 07LM - 175mA

FIXTURE HEIGHT - TRIMMED/TRIMLESS

LED LIGHT ENGINE: 07LM



FIXTURE HEIGHT - MILLWORK

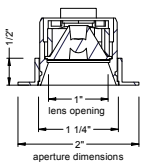


TRIMMED

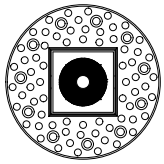


ceiling cutout
1-3/4" square

ceiling thickness
1/8" to 1 1/2"

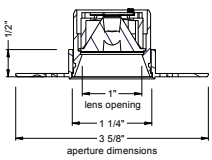


TRIMLESS



ceiling cutout
1-3/4" square

ceiling thickness
1/8" to 1 1/2"

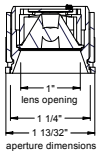


MILLWORK



ceiling cutout
1-7/16" square

ceiling thickness
1/8" to 1 1/2"



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU1**	NU1
TYPE	**QD**	square downlight
	QDT	square downlight trimless
	QDTMW	square downlight trimless millwork
LED	**TW**	tunable white (Luminus)
DELIVERED LUMENS	**07LM**	730 lm
	Standard Configuration: 3000K 60D, **NL**	
	Calculated Delivered Lumens = [Delivered Lumen Value] x [Optic Multiplier] x [Lens Multiplier]	
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	0.99	1	1.01	1.02
EML RATIO	0.49	0.57	0.68	0.79	0.96	1.04	1.12

CRI	**95**	95 typical, 90 minimum	
OPTIC & LM MULTIPLIER SEE PAGE 6	**20D**[1]	20 degrees	(0.95)
	30D	30 degrees	(0.95)
	40D	40 degrees	(0.93)
	60D	60 degrees	(1.00)
BEZEL LENS SEE PAGE 5	**NL**[2]	no lens	(1.00)
	CL	clear lens	(0.95)
	DL	diffused lens	(0.86)
	E[3]	elliptical beam spread	(0.85)
	HCL	honeycomb louver	(0.58)
	HET	high efficiency textured lens, similar to Solite™	(0.92)
	SBL	smoothing beam lens	(0.92)
	Maximum 2pcs of media per fixture.		
TRIM COLOR SEE PAGE 5	**BK**	black	
	WH	white	
	MC	matte chrome	
	BZ	bronze	
	CC[4]	custom color, consult factory for details	
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.		
	Not applicable to trimless option. Do not include in trimless ordering code.		
BEZEL COLOR SEE PAGE 5	**BK**	black	(0.98)
	WH	white	(1.00)
	MC	matte chrome	(0.99)
	BZ	bronze	(0.98)
	CC[4]	custom color, consult factory for details	
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.		

ORDERING CODE

MOUNTING OPTIONS SEE PAGE 7, 8	**NC**	new construction plate
	IC[5]	insulation contact housing
	ICAT[5]	insulation contact/airtight housing
	CP[5]	chicago plenum housing
	RET	retrofit, no ceiling plate
	remote driver housing only	
VOLTAGE	**LVL**	low voltage luminaire
DIMMING	**ND**	No driver included. See page 3 for remote driver options.

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

NU1 - QD -TW - 07LM - 2765 - 95 - 30D - HET - WH - WH - NC - LVL - ND

NOTES

1. 20D available with DL, E, HET, SBL lens options.
2. NL option does not meet requirements for AT/WET/NSF listings.
3. Elliptical beam distributions [20D= 40° x 60° , 30D= 45° x 60° , 40D= 50° x 65° , 60D= 65° x 75°]
4. Custom set up fee plus minimum quantity required per color.
5. IC/ICAT/CP not available in QDTMW.

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

REMOTE DRIVER - ORDERING CODE		
SERIES	DX-C	compact driver box
NUMBER OF DRIVERS	1	number of drivers, 1
LED	TW	tunable white
CURRENT	175	175mA
VOLTAGE	120	120V
	UNV	120V-277V
DIMMING	DIM10Z	eldoLED flicker free 0-10V dim 0.1%
	DALIZ	eldoLED flicker free DALI-2 dim to 0.1%
	NLT	nLight control interface: Cat-5/RJ45, dim to off
	CASZ	Casambi dim to zero

20° - 60° BEAM (Note: Specifications are subject to change without notice)		
6mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
07LM	730LM @30K/95CRI	11W
Notes	Delivered lumens based on 60D optic with no lens, (see page 2)	

YOUR COMPLETED ORDERING CODE
Follow the steps to specify your fixture, example:
DX-C - 1 - TW - 175 - UNV - DIM10Z

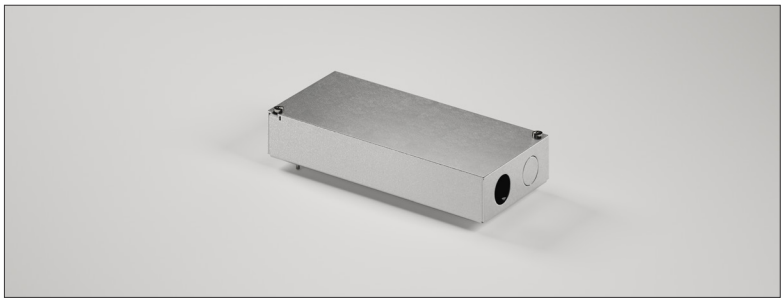
NOTES

1. *EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

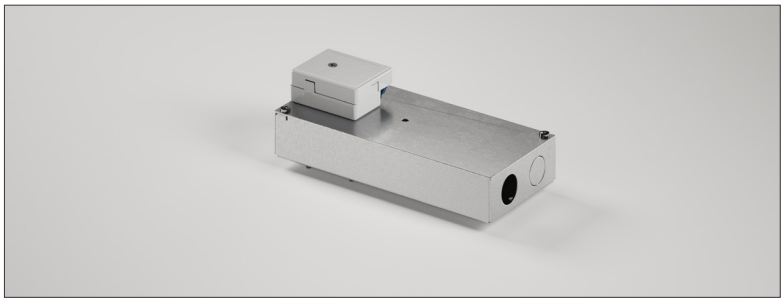
ELECTRICAL/CONTROLS

- 120V-277V
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Max. ambient installation temperature 95°F (35°C)
- Minimum wire gauge approved mounting distance 18 AWG, 330 feet
- Maximum Remote mounting distance of EM driver shall be 50 feet

REMOTE SINGLE DRIVER BOX (DIM10Z & DALIZ)



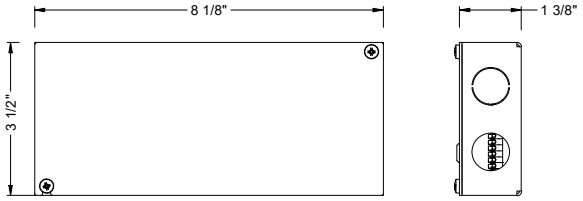
REMOTE SINGLE DRIVER BOX (NLT & CASZ)

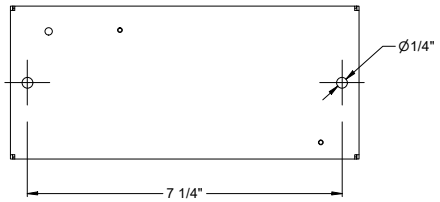


PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

DRIVER BOXES

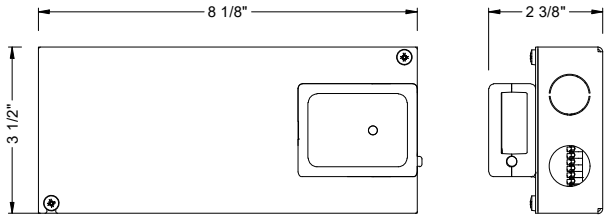
REMOTE SINGLE DRIVER BOX (DIM10Z & DALIZ)

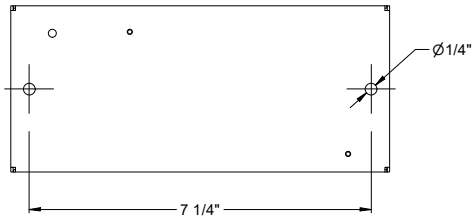




Wall mount option

REMOTE SINGLE DRIVER BOX (NLT & CASZ)





Wall mount option

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS



WH MC BK BZ

OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 07LM BK bezel fixtures, unless otherwise noted.

HCL
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
30D	26	11.3
40D	34	13.8
60D	45	19.7

NL
No Lens



OPTIC	BEAM ANGLE	UGR
30D	32	16.5
40D	43	18.5
60D	57	25

CL
Clear Lens



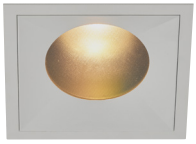
OPTIC	BEAM ANGLE	UGR
30D	30	16.2
40D	40	18.3
60D	56	24.5

DL
Diffused Lens



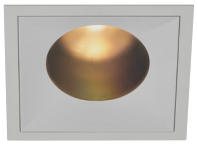
OPTIC	BEAM ANGLE	UGR
20D	41	20.2
30D	46	21.6
40D	50	23.2
60D	62	26.1

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D	25	15.7
30D	32	17.1
40D	41	19.4
60D	55	24.6

SBL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
20D	23	14.8
30D	31	16.2
40D	40	18.6
60D	55	24.3

E
Elliptical Lens



OPTIC	BEAM ANGLE	UGR
20D	41x58	20x24
30D	46x62	20x25
40D	49x66	22x26
60D	62x76	25x28

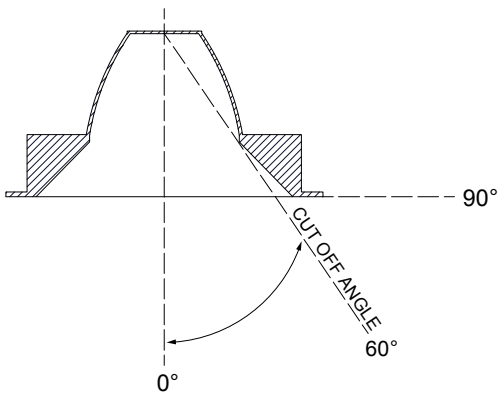
GLARE CONTROL

CUT-OFF ANGLE

Visual comfort is achieved with a lower cut-off angle due to improved glare control. The smaller the cut-off angle, the easier it is on the eye.

Alphabet downlights have been thoughtfully engineered to eliminate glare while still delivering functional illumination.

- Cutoff angle of NL and CL is 60 degrees;

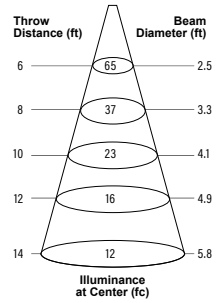


alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

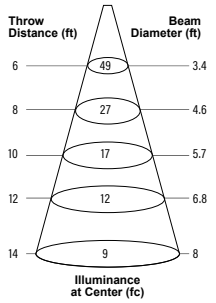
PHOTOMETRIC DATA

20D 23° WITH SBL LENS



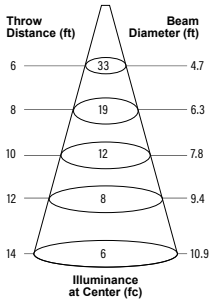
WATTS: 7	LPW: 90.2
LUMENS: 632	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2346
5	2065
15	814
25	300
35	70
45	25

30D 32° WITH NO LENS



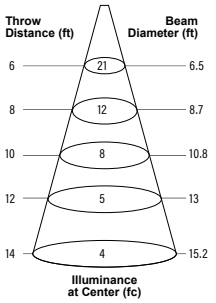
WATTS: 7	LPW: 96.9
LUMENS: 678	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1747
5	1627
15	939
25	375
35	88
45	25

40D 43° WITH NO LENS



WATTS: 7	LPW: 96.5
LUMENS: 676	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1186
5	1155
15	886
25	423
35	111
45	37

60D 57° WITH NO LENS



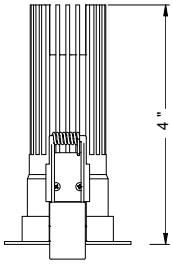
WATTS: 7	LPW: 103.8
LUMENS: 727	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	755
5	742
15	637
25	452
35	249
45	94

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

FIXTURE HEIGHT

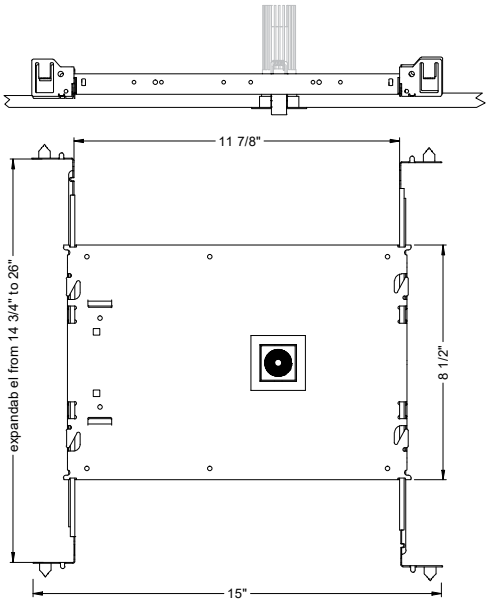
07LM LOW LUMENS



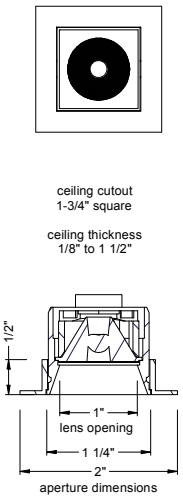
TRIMMED, TRIMLESS & MILLWORK

NC - NEW CONSTRUCTION

TRIM

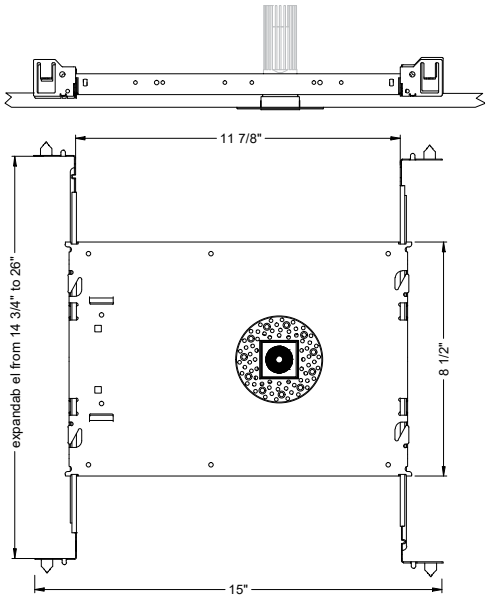


TRIM

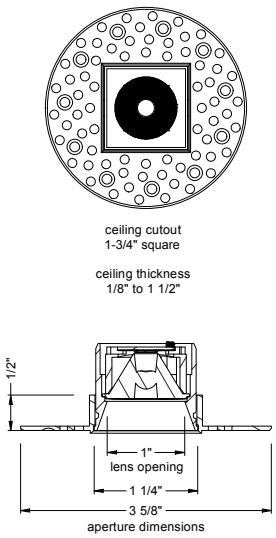


ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

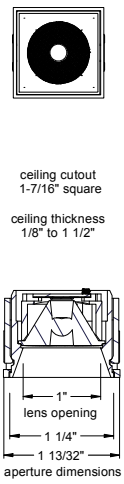
TRIMLESS



TRIMLESS



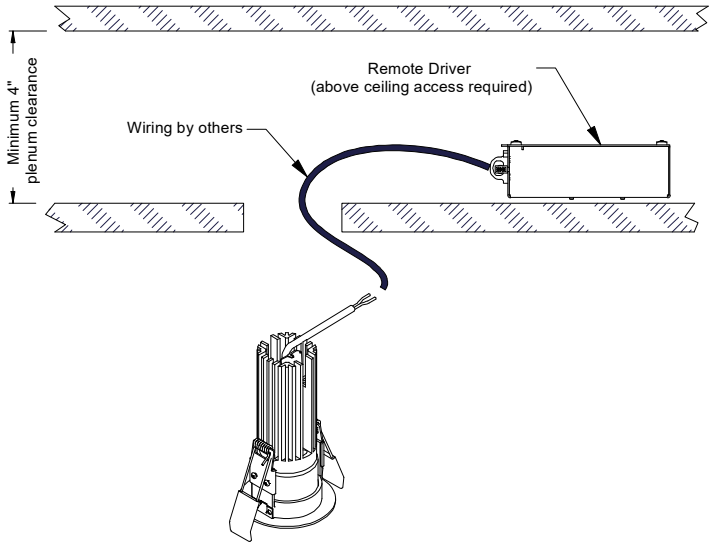
TRIMLESS/MILLWORK



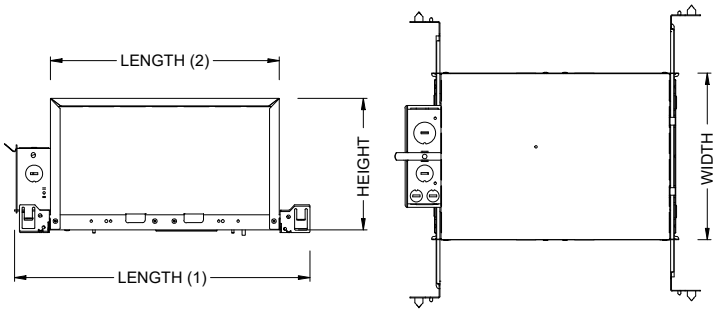
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

RET - RETRO
TRIM/TRIMLESS



IC - INSULATION CONTACT HOUSING
ICAT - INSULATION CONTACT / AIR TIGHT
CP - CHICAGO PLENUM

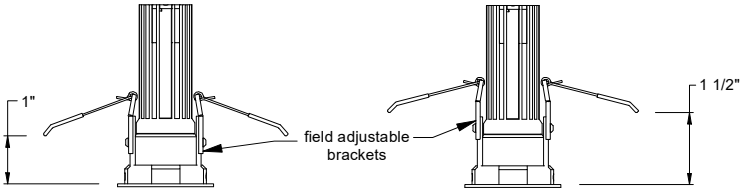


BOX SIZE	L 1	L 2	W	H
A	15 - 7/16"	11 - 3/4"	8 - 1/2"	6 - 3/4"

RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✔	✔			
TYPE IC			✔	✔	✔
CHICAGO PLENUM (CCEA)					✔
SUITABLE FOR AIR HANDLING PLENUMS				✔	✔
REDUCED AIRFLOW ASTM E283				✔	✔

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (12°-60°)			
LUMEN OUTPUT	BOX - A		
	CP	IC	ICAT
07LM	✔	✔	✔

CEILING THICKNESS			
FIXTURE TYPE	MOUNTING TYPE		
	NC, IC, ICAT, CP, RET	NC, IC, ICAT, CP, RET	NC, IC, ICAT, CP, RET
	STANDARD CEILING THICKNESS	THICK CEILING THICKNESS	CEILING CUTOUT
TRIM	1/8" to 1.0"	1.0" to 1 1/2"	1-3/4" square
TRIMLESS	1/8" to 1.0"	1.0" to 1 1/2"	1-3/4" square
MILLWORK (TRIMLESS)	1/8" to 1.0"	1.0" to 1 1/2"	1-7/16" square



1/8" to 1" thick ceiling

1" to 1-1/2" thick ceiling