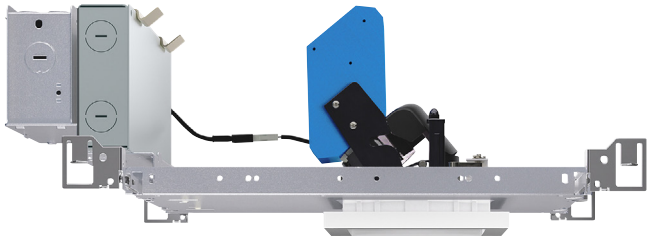
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU4

4" Square Adjustable Tamper Resistant Tunable White

NSF AT airtight DF dead-front PR plenum rated wet rated



20° -100° BEAM (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	1050LM @35K/95CRI	17W
15LM	1540LM @35K/95CRI	23W
20LM	1970LM @35K/95CRI	29W
Notes	Delivered lumens based on 35D optic with no lens, (see page 2)	

18° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	1030LM @35K/95CRI	16W
Notes	Delivered lumens based on 18D optic with no lens, (see page 2)	

FEATURES

- Designed to meet NYS-OMH rigorous requirements
- Tamper resistant, Anti ligature
- IK10 impact rated, vandal resistant
- UGR <5
- Microban antimicrobial finish available on all exposed painted surfaces

DIMMING AND CONTROLS

- eldoLED flicker free 0-10V dimming to 0% and 1%
- eldoLED flicker free DALI dimming to 0% and 1%
- DMX-512/RDM dim to 0%
- NLight control interface dimming to 0%
- Wireless control options, dim to 1% (see page 11)

CONSTRUCTION

- Spun Aluminum 6061 lensing frame
- 18-8 stainless steel tamper resistant screws
- Polycarbonate (3mm) shatter resistant lensing
- Electrocoated 16-gauge cold rolled steel construction
- Accommodates ceiling thickness from 1/8" to 1-5/8"
- **CUTOUT DIMENSION:**
  Tamper - 4 - 1/4" x 4 - 1/4"

LED

- Luminus tunable white COB: 95 CRI, R9 > 70: SDCM = 3-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
- NSF/ANSI-2 with lens
- NYSOMH - New York State Office of Mental Health compliant
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

ELECTRICAL

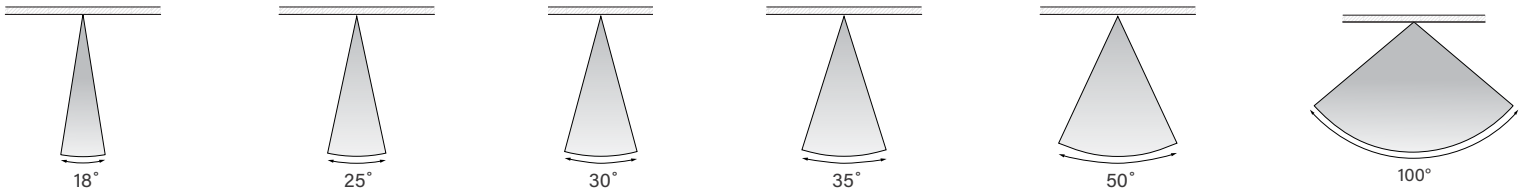
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Max. ambient installation temperature 95°F (35°C)

TRIM OPTIONS



Tamper Resistant

BEAM SPREADS



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU4**	NU4
TYPE	**QATR**	square adjustable tamper resistant
LED	**TW**	tunable white (Luminus)
DELIVERED LUMENS	**10LM**	1050 lm
	15LM	1540 lm
	20LM	1970 lm
	Standard Configuration: 3000K 80CRI 35D **NL**	
	Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]	
CCT	**1840**	1800K to 4000K tunable white

CCT	1800K	2000K	2400K	2700K	3000K	3500K	4000K
CCT MULTIPLIER FOR LUMEN OUTPUT	0.74	0.76	0.83	0.88	0.96	1	1.09
EML RATIO	0.21	0.33	0.46	0.54	0.6	0.69	0.73

2765 — 2700K to 6500K tunable white

CCT	2700K	3000K	3500K	4000K	5000K	5700K	6500K
CCT MULTIPLIER FOR LUMEN OUTPUT	0.96	0.97	1	1.01	1.04	1.06	1.09
EML RATIO	0.52	0.62	0.76	0.83	0.96	1.02	1.07

CRI	**95**	95 typical, 90 minimum	
OPTIC & LM MULTIPLIER	**18D**[1]	18 degrees	(1.00)
	25D	25 degrees	(0.96)
	30D	30 degrees	(0.96)
	35D	35 degrees	(1.00)
	50D	50 degrees	(0.98)
ACCESSORY	**NA**	no accessory	(1.00)
	HCL	honeycomb louver	(0.75)
	HETA	high efficiency textured lens, similar to Solite™	(0.90)
	EA	elliptical lens	(0.75)
BEZEL LENS	**NL**	no lens	(1.00)
	CL	clear lens	(0.95)
	DL	diffused lens	(0.92)
	HET	high efficiency textured lens, similar to Solite™	(0.93)
	SBL	smoothing beam lens	(0.93)
	WDL	wide diffused lens*	(0.90)
TRIM COLOR	**BK**	black	
	WH	white	
	MC	matte chrome	
	CC[2]	custom color, consult factory for details	
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.		
	Includes shatter proof lens and tamper resistant screws.		
BEZEL COLOR	**BK**	black	(0.98)
	WH	white	(1.00)
	MC	matte chrome	(0.99)
	CC[2]	custom color, consult factory for details	
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.		

ORDERING CODE

MOUNTING OPTIONS	**NC**	new construction plate
	IC[3]	insulation contact housing
	ICAT[3]	insulation contact/airtight housing
	CP[3]	chicago plenum housing
VOLTAGE	**UNV**	120V-277V
	LVL[4,5]	low voltage luminaire
DIMMING	**DIM10Z**[6]	eldoLED flicker free 0-10V dim 0.1%
	DALIZ-DT6	eldoLED flicker free DALI-2, DT6, dim to 0.1%
	DALIZ-DT8	eldoLED flicker free DALI-2, DT8, dim to 0.1%
	DMXZ-RJ45	DMX-512/RDM dim to 0% with RJ45 input
	DMX-WL	DMX-512/RDM dim to 0% with lead wire input
	DMX-XLR	DMX-512/RDM dim to 0% with XLR input
	NLT	nLight control interface: Cat-5/RJ45, dim to off
	WIRELESS (ref. page 11 for available options)	
	REMOTE DX COMPACT DRIVER (ref. page 10 for available options)	

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

NU4 - QATR - TW - 20LM - 2765 - 95 - 30D - NA - DL - WH - WH - NC - UNV - DIM10Z

NOTES

1. 18D available in 10LM.
2. Custom set up fee plus minimum quantity required per color.
3. IC/ICAT/CP not available in 25LM & 30LM.
4. Available with NC mounting option only
5. Must select DX dimming with LVL.
6. Requires 2 wall controllers.

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

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

OPTICAL OPTIONS

- Corrected UGR values generated per CIE 190-2010 at the following reference condition:
  Room dimensions: X = 4H, Y = 8H
  Reflectances: 70/50/20
- UGR calculation based on 15LM fixtures, unless otherwise noted.

CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
18D*	19	<10
25D	25	<10
30D	31	<10
35D	35	<10
50D	51	<10

* 18D UGR Calculation based on 10LM

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
25D	39	10.6
30D	41	11
35D	44	12
50D	55	16.4

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
18D*	23	<10
25D	28	<10
30D	33	<10
35D	36	<10
50D	50	<10

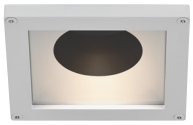
* 18D UGR Calculation based on 10LM

WDL
Wide Diffused Lens



OPTIC	BEAM ANGLE	UGR
25D	86	20.5
30D	89	21.8
35D	91	22.6
50D	101	25.1

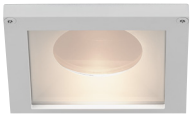
NL
No Lens



OPTIC	BEAM ANGLE	UGR
18D*	18	<10
25D	25	<10
30D	31	<10
35D	35	<10
50D	51	<10

* 18D UGR Calculation based on 10LM

SBL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
18D*	19	<10
25D	26	<10
30D	31	<10
35D	36	<10
50D	51	<10

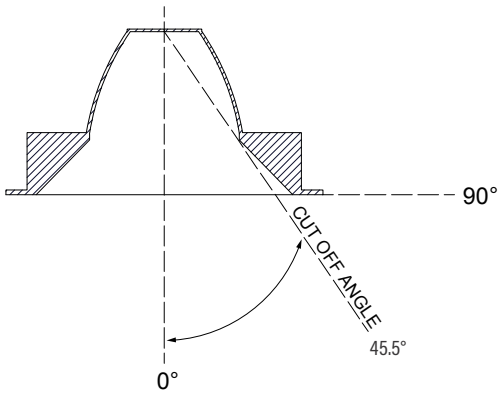
* 18D UGR Calculation based on 10LM

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 45.5 degrees;



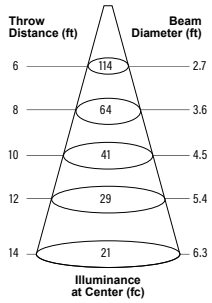
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PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

10LM

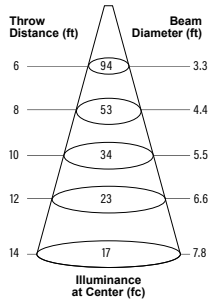
25D 25° WITH NO LENS



WATTS: 16.6	LPW: 57.6
LUMENS: 956	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	4109
5	3848
15	1510
25	343
35	23
45	3

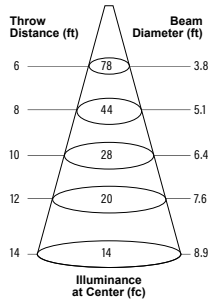
30D 31° WITH NO LENS



WATTS: 16.6	LPW: 61.2
LUMENS: 1016	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	3371
5	3172
15	1766
25	417
35	55
45	6

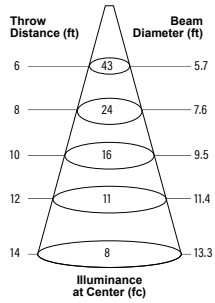
35D 35° WITH NO LENS



WATTS: 16.6	LPW: 63.5
LUMENS: 1054	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	2816
5	2696
15	1726
25	585
35	66
45	7

50D 51° WITH NO LENS

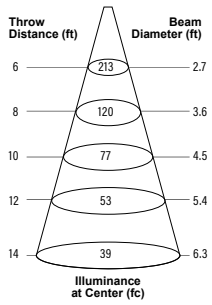


WATTS: 16.6	LPW: 62.4
LUMENS: 1035	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	1555
5	1513
15	1257
25	799
35	242
45	21

20LM

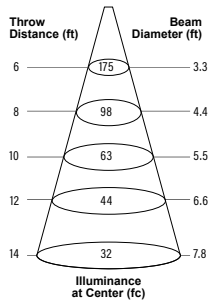
25D 25° WITH NO LENS



WATTS: 29.2	LPW: 61.1
LUMENS: 1783	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	7669
5	7182
15	2818
25	640
35	43
45	5

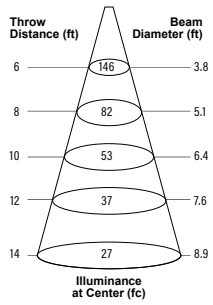
30D 31° WITH NO LENS



WATTS: 29.2	LPW: 64.9
LUMENS: 1896	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	6292
5	5920
15	3296
25	778
35	102
45	12

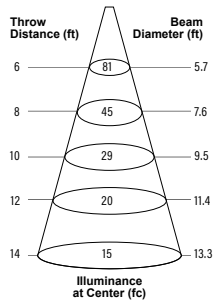
35D 35° WITH NO LENS



WATTS: 29.2	LPW: 67.4
LUMENS: 1967	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	5256
5	5031
15	3222
25	1092
35	122
45	13

50D 51° WITH NO LENS



WATTS: 29.2	LPW: 66.2
LUMENS: 1932	CCT: 3500K

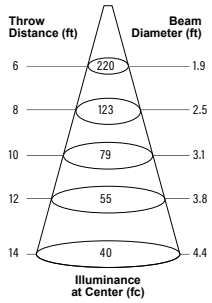
INTENSITY	
DEGREE	CANDELA
0	2901
5	2823
15	2346
25	1491
35	452
45	39

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

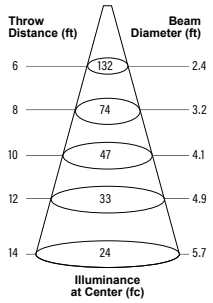
10LM

18D
17.8° WITH NO LENS



WATTS: 16.4	LPW: 63
LUMENS: 1030	CCT: 3500K
INTENSITY	
DEGREE	CANDELA
0	7903
5	6353
15	1470
25	158
35	9
45	0

18D-HET
23° WITH HET LENS



WATTS: 16.4	LPW: 58.5
LUMENS: 956	CCT: 3500K
INTENSITY	
DEGREE	CANDELA
0	4743
5	4127
15	1532
25	299
35	37
45	6

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS



WH



MC

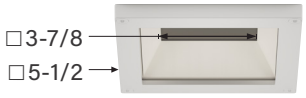


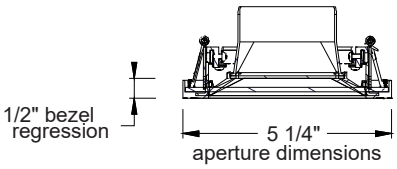
BK

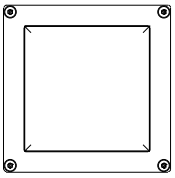


CC

TAMPER RESISTANT







ceiling cutout
4-1/4" diameter
ceiling thickness
1/8" to 1-5/8"

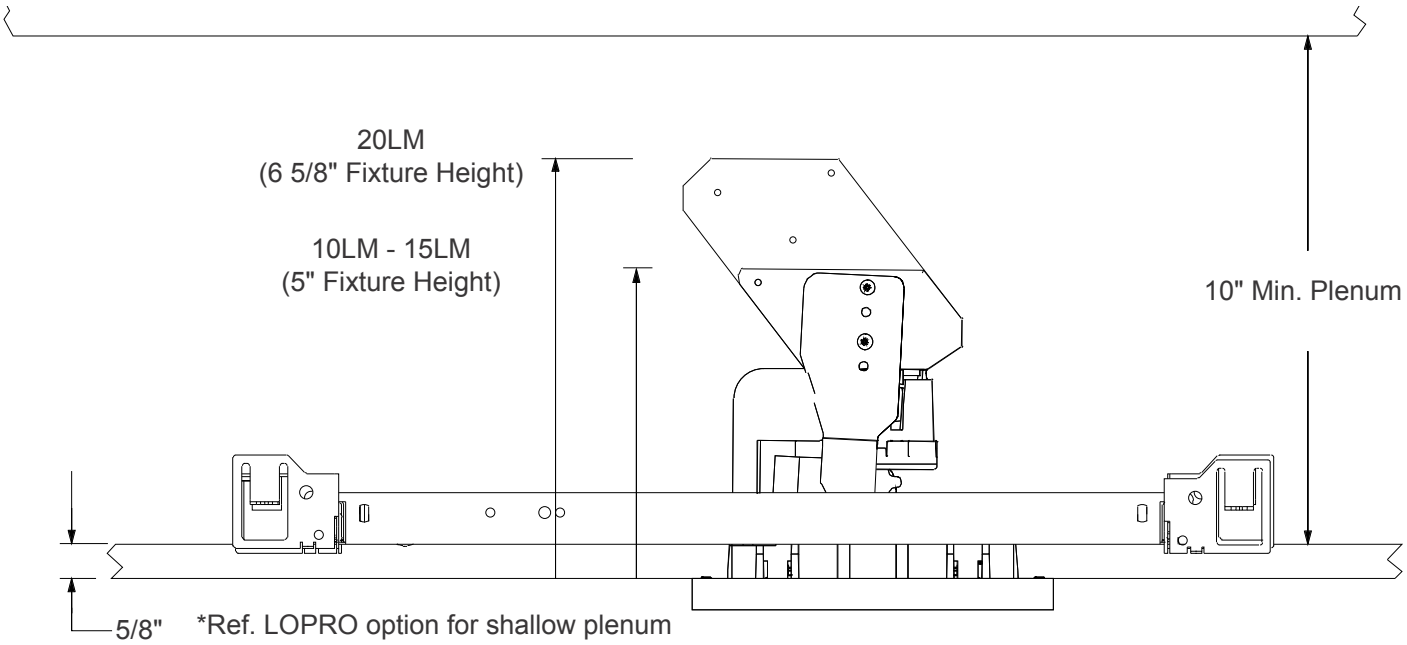
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

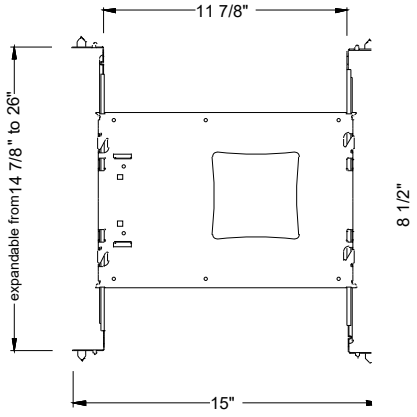
RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✔	✔			
TYPE IC			✔	✔	✔
CHICAGO PLENUM (CCEA)					✔
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔	✔	✔	✔	✔

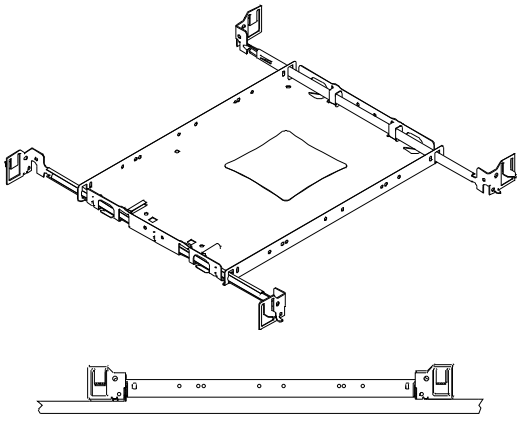
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-5/8"	4-1/4" square

PLENUM HEIGHT



NEW CONSTRUCTION - NC



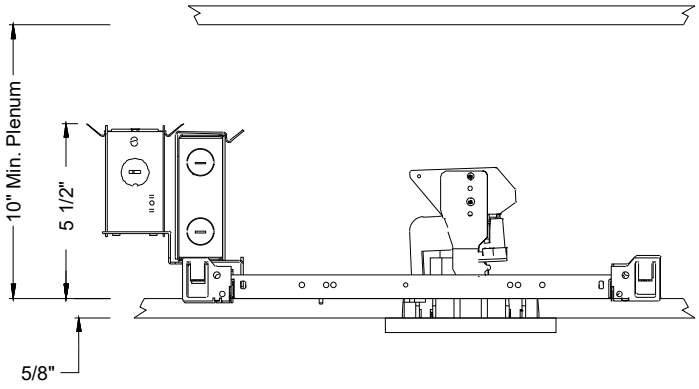


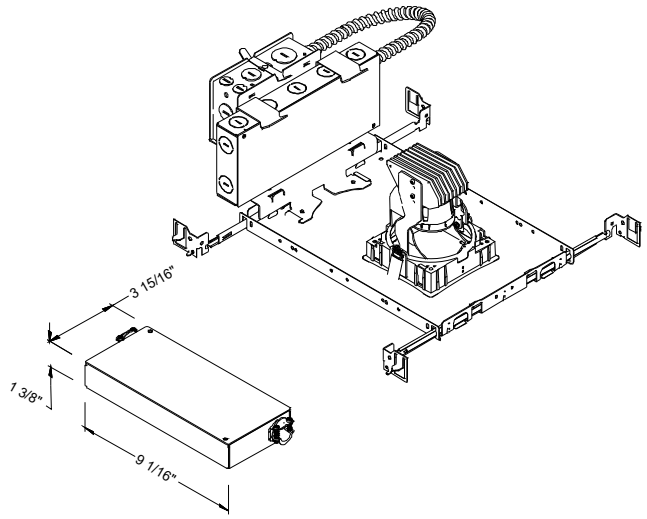
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

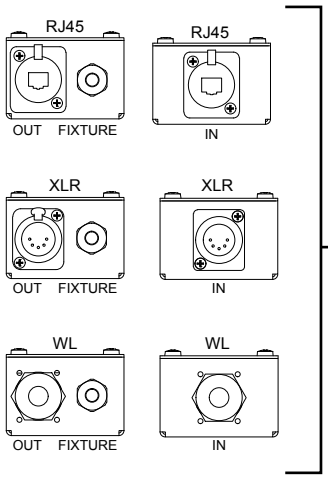
MOUNTING OPTIONS

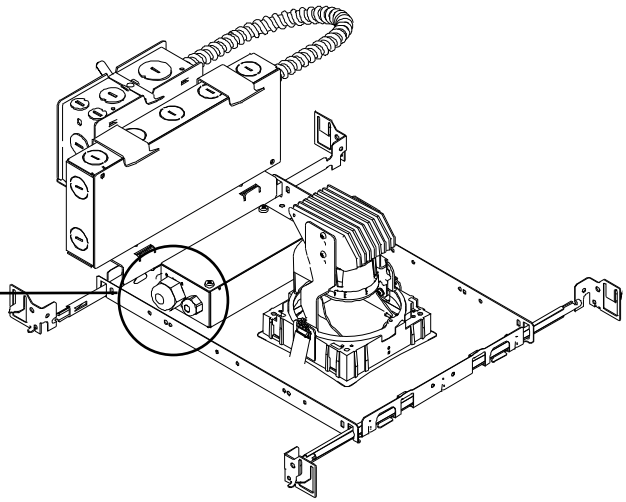
10LM-20LM (DIM10Z / DALIZ-DT6 / DALIZ-DT8)
(BELOW CEILING ACCESSIBLE)



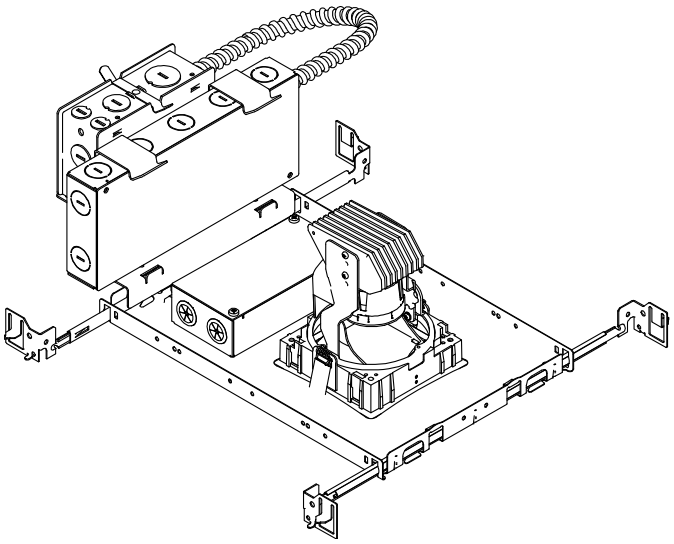


10LM-20LM (DMX-WL / DMX-XLR / DMXZ-RJ45)
(BELOW CEILING ACCESSIBLE)





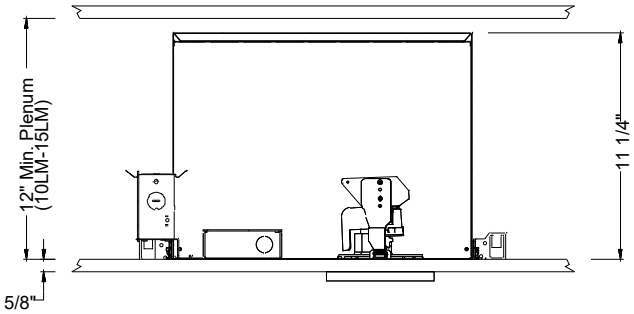
10LM-20LM NLT HOUSING - (NLT)
(BELOW CEILING ACCESSIBLE)

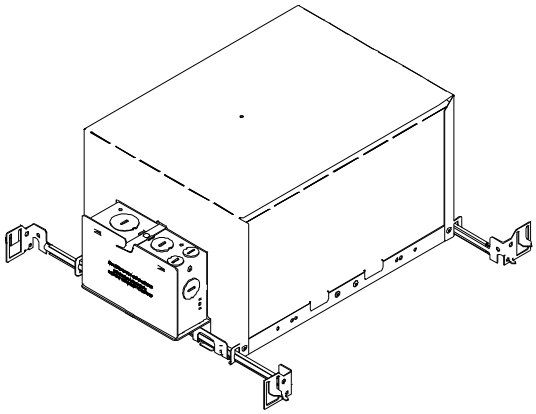


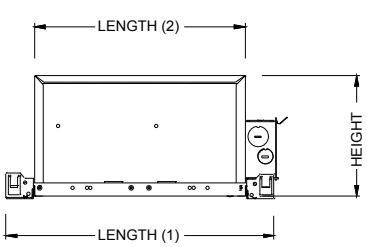
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

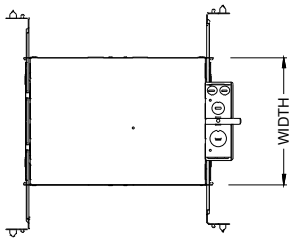
MOUNTING OPTIONS

IC - INSULATION CONTACT | ICAT - INSULATION CONTACT / AIR TIGHT | CP - CHICAGO PLENUM
(DIM10Z / DALIZ-DT6 / DALIZ-DT8)









BOX SIZE	L 1	L 2	W	H
A	18 - 1/4"	14 - 7/8"	12 - 1/8"	11 - 1/4"

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (20°-100°)			
LUMEN OUTPUT	BOX-A		
	CP	IC	ICAT
10LM	✔	✔	✔
15LM	✔	✔	✔
20LM			

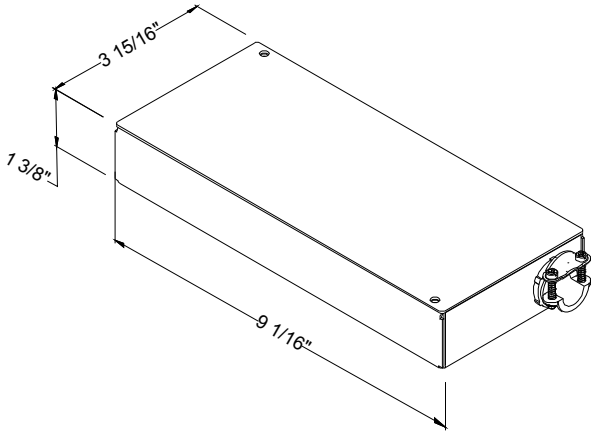
BOX TYPE / LUMEN OUTPUT - NARROW BEAM (18°)			
LUMEN OUTPUT	BOX-A		
	CP	IC	ICAT
10LM	✔	✔	✔

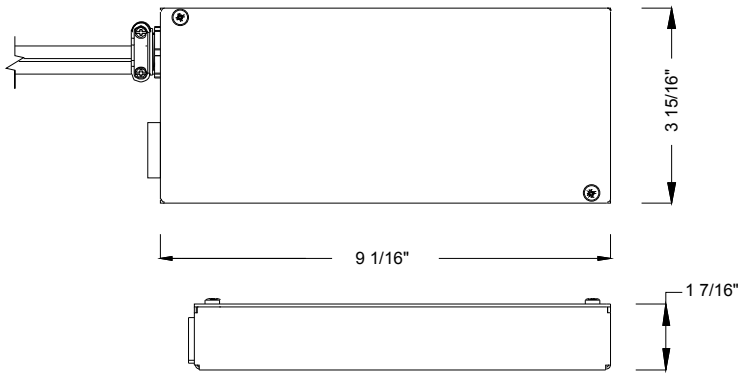
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

REMOTE COMPACT DRIVER

REMOTE COMPACT DRIVER (DIMMING)

DX ORDERING OPTIONS	
DIM10Z-DX	remote compact eldoLED flicker free 0-10V dim 0.1% driver
DALIZ-DT6-DX	remote compact eldoLED flicker free DALI-2, DT6, dim to 0.1% driver
DALIZ-DT8-DX	remote compact eldoLED flicker free DALI-2, DT8, dim to 0.1% driver
DMX-RJ45-DX	remote compact DMX-512/RDM dim to 0% with RJ45 input driver

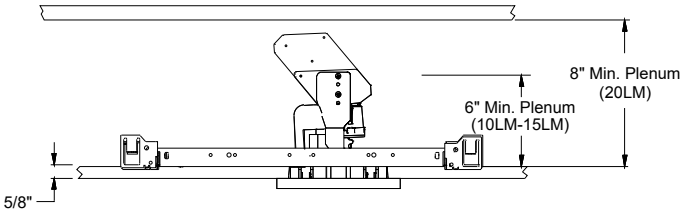




*Remote DX can power LEDs up to 330FT (18 AWG).
Customer will recieve a single remote compact driver per fixture.

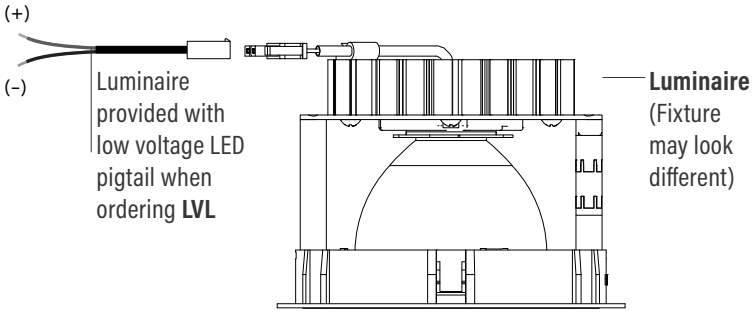
PLENUM HEIGHT

(NC-LVL-DX) NEW CONSTRUCTION REMOTE DX DRIVER



NOMINAL LED VOLTAGE: 36VDC

Customer to order CC Remote Driver separately or POE Node by others.

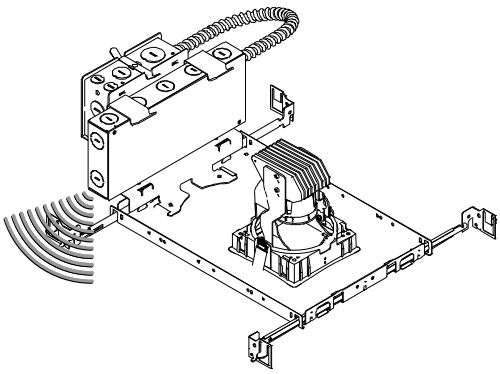


alphabet

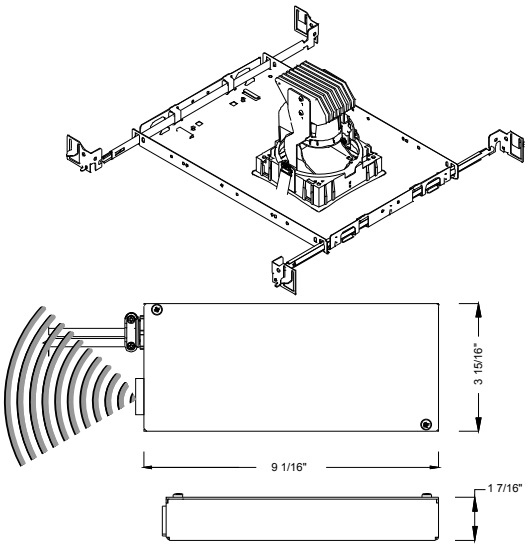
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

WIRELESS OPTIONS

NC - NEW CONSTRUCTION (10LM)
PLENUM SIDE



NC - NEW CONSTRUCTION (10LM)
DX REMOTE



Customer must verify system design and installation with their controls provider (e.g., Lutron). Wireless signal strength, reliability, performance, and commissioning are the responsibility of the customer. Remote DX can power LEDs up to 330FT (18 AWG), but adequate wireless signal is customers responsibility.

YOUR COMPLETED ORDERING CODE
Follow the steps to specify your fixture, example:
NU4 - QATR - TW - 20LM - 2765 - 95 - 30D - NA - DL - WH - WH - NC - UNV - DIM10Z - AWN
NU4 - QATR - TW - 20LM - 2765 - 95 - 30D - NA - DL - WH - WH - NC - UNV - DIM10Z - AWN - DX

LUTRON Athena

ORDERING CODE

AWND . . . . . athena wireless node (DALI2 Driver) - integrated / above ceiling

AWND-DX . . athena wireless node (DALI2 Driver) - remote DX Compact Driver



MODEL NUMBER

athena node model #: A-WN-D01-RF

POWER SUPPLY

(DALI2 Driver): Moons D4i DALI2 LED driver with DALI Bus Power, Dim-to-off

legrand WATTSTOPPER® PLUS

ORDERING CODE

CLMD . . . . . connected lighting module (DALI2 Driver) - integrated / above ceiling

CLMD-DX . . connected lighting module (DALI2 Driver) - remote DX Compact Driver



MODEL NUMBER

CLM model #: ZBHA-CLM-DIM

POWER SUPPLY

(DALI2 Driver): Moons D4i DALI2 LED driver with DALI Bus Power, Dim-to-off

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.