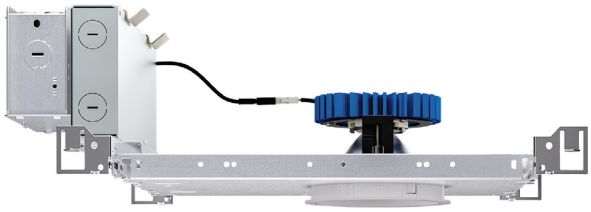
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU4

4" Round Downlight Hyperbolic Tunable White

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



40° BEAM (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	980LM @35K/95CRI	13W
15LM	1460LM @35K/95CRI	19W
20LM	1910LM @35K/95CRI	25W
25LM	2420LM @35K/95CRI	32W
Notes	Delivered lumens based on 40D optic with white hyperbolic cone, (see page 2)	

FEATURES

- 3/4" bezel regress with 1/16" micro flange
- UGR < 18
- Up to 98 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% 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 10)

CONSTRUCTION

- Lexan™ (PC) highly resistant to impact and heat (240°F)
- Optimal material for wireless signal connectivity
- Shatter proof acrylic bezel lens
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/8" to 1-3/4"
- **CUTOUT DIMENSION:**
  Trim - 4-1/2"
  Trimless - 4-1/2"
  Millwork - 4-1/2"

LED

- Luminus tunable white COB from 2700K - 6500K: 95 CRI, R9 >70: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L_{70}> 54,000 hrs

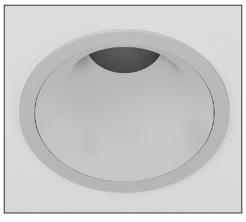
LISTING

- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- Suitable for dry and damp locations.
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

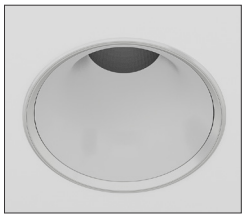
ELECTRICAL

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

TRIM OPTIONS



Trimmed

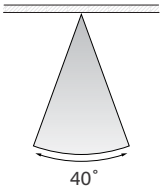


Trimless



Trimless Millwork

BEAM SPREADS



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU4**	
TYPE	**RH**	round hyperbolic
	RHT	round hyperbolic trimless
	RHTMW	round hyperbolic trimless millwork
LED	**TW**	tunable white (Luminus)
DELIVERED LUMENS	**25LM**	2420 lm
	20LM	1910 lm
	15LM	1460 lm
	10LM	980 lm
	Standard Configuration: 3000K 80CRI 40D **Calculated Delivered Lumens =** [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]	
CCT	**1840**	1800K to 4000K tunable white
	2765	2700K to 6500K tunable white
CRI	**95**	95 typical, 90 minimum
OPTIC & LM MULTIPLIER	**40D**	40 degrees
	Hyperbolic cone with 40° diffused reflector.	
	Antimicrobial finish, add **AM** to black or white i.e. BKAM.	
TRIM COLOR	**BK**	black
	WH	white
	MC	matte chrome
	BZ	bronze
	CC[1]	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	**BK**	black (0.88)
	WH	white (1.00)

1840

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

2765

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

ORDERING CODE

MOUNTING OPTIONS	**NC**	new construction plate
	IC[2]	insulation contact housing
	ICAT[2]	insulation contact/airtight housing
	CP[2]	chicago plenum housing
VOLTAGE	**UNV**	120V-277V
	LVL[3,4]	low voltage luminaire
DIMMING	**DIM10Z**[5]	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
	REMOTE DX COMPACT DRIVER (ref. page 9 for available options)	
	WIRELESS (ref. page 10 for available options)	

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

NU4 - RH - TW - 20LM - 2765 - 95 - 40D - BK - BK - NC - UNV - DIM10Z

NOTES

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

* EldoLED and DMX 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.

NL
No Lens



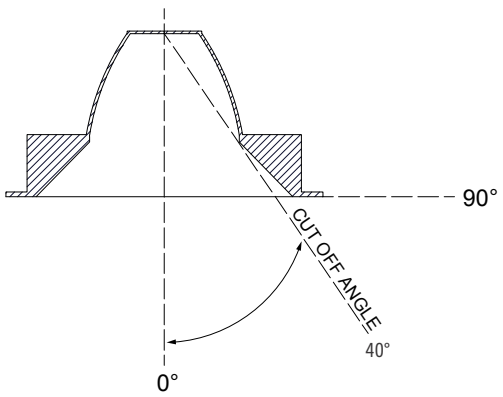
OPTIC	BEAM ANGLE	UGR
40D	39	12.4

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 40° degrees;



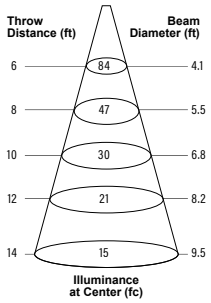
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

15LM

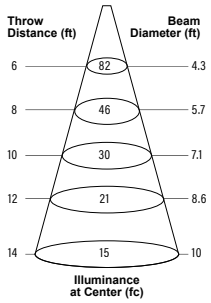
40D-BK
38° BLACK HYPERBOLIC CONE



WATTS: 18.7	LPW: 68.9
LUMENS: 1288	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	3020
5	2872
15	1934
25	904
35	104
45	18

40D-WH
39° WHITE HYPERBOLIC CONE

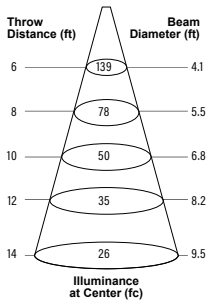


WATTS: 18.7	LPW: 77.9
LUMENS: 1456	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	2953
5	2826
15	1983
25	969
35	163
45	71

25LM

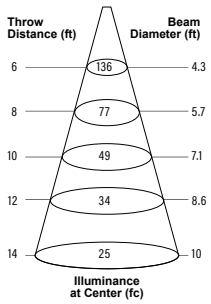
40D-BK
38° BLACK HYPERBOLIC CONE



WATTS: 31.4	LPW: 68.1
LUMENS: 2139	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	5017
5	4771
15	3212
25	1502
35	173
45	30

40D-WH
39° WHITE HYPERBOLIC CONE



WATTS: 31.4	LPW: 77
LUMENS: 2419	CCT: 3500K

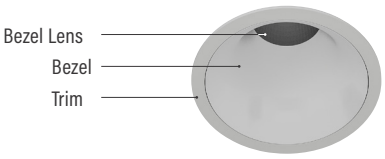
INTENSITY	
DEGREE	CANDELA
0	4905
5	4694
15	3295
25	1611
35	271
45	118

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS



WH



MC



BK

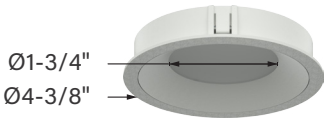


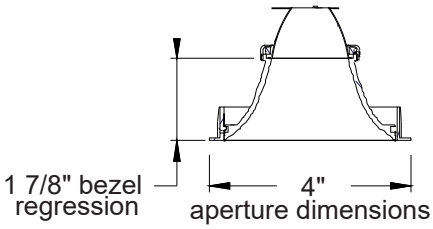
BZ

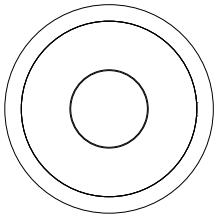


CC

TRIMMED



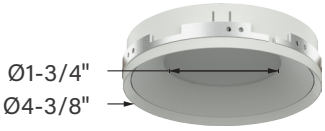


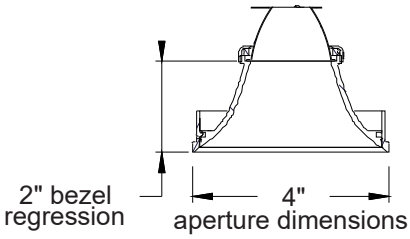


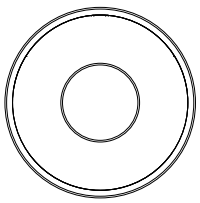
ceiling cutout
4-1/2" diameter

ceiling thickness
1/8" to 1-5/8"

MILLWORK



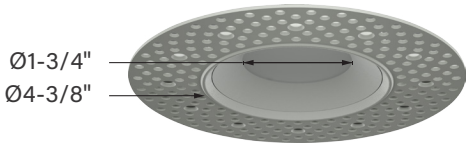


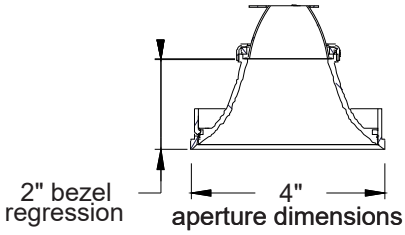


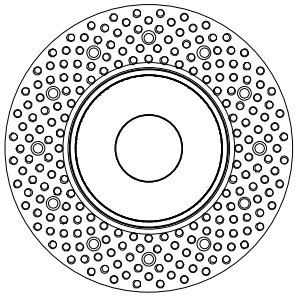
ceiling cutout
4-1/2" diameter

ceiling thickness
1/2" to 1-3/4"

TRIMLESS







ceiling cutout
4-1/2" diameter

ceiling thickness
3/8" to 1-3/4"

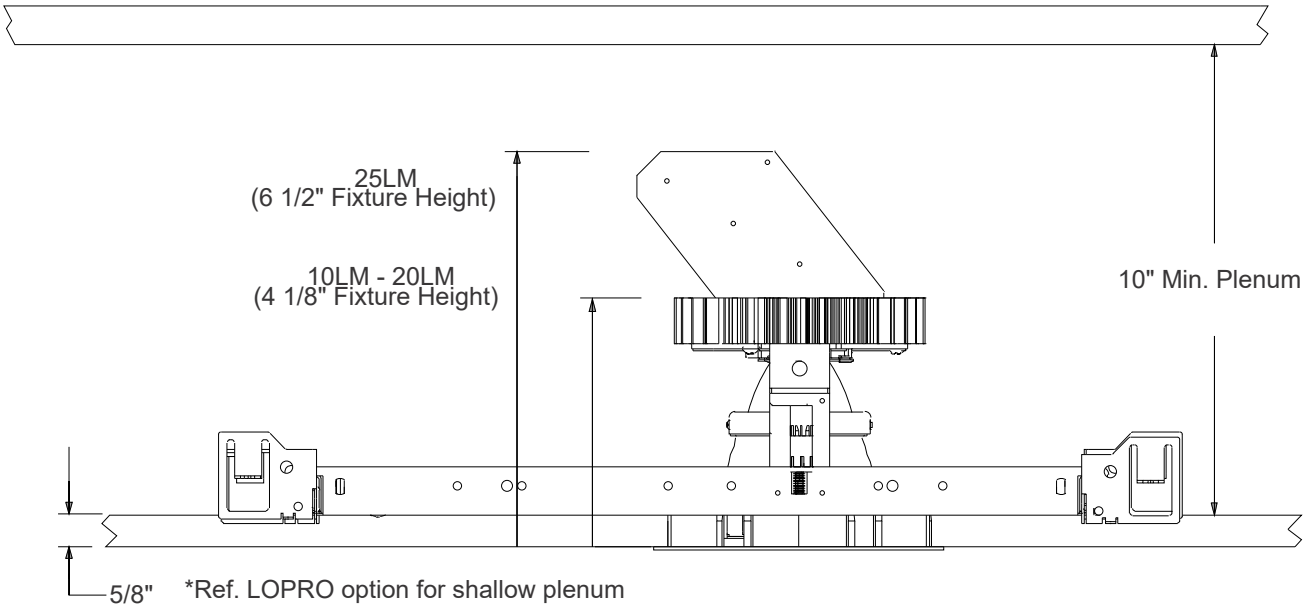
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

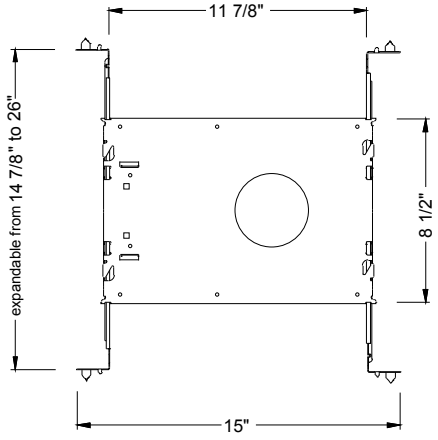
RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✔				
TYPE IC		✔	✔		
CHICAGO PLENUM (CCEA)				✔	
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔	✔	
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔	✔	✔	✔	

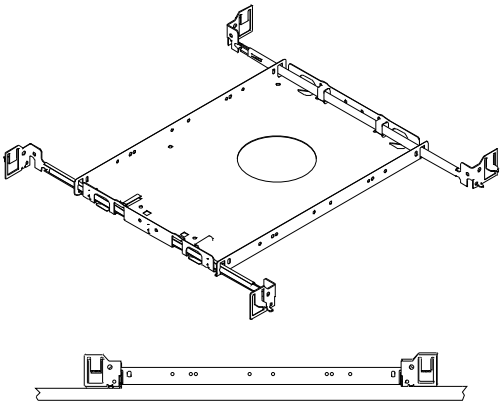
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-5/8"	4-1/2"
TRIMLESS	3/8" to 1-3/4"	4-1/2"
MILLWORK (TRIMLESS)	1/2" to 1-3/4"	4-1/2"

PLENUM HEIGHT



NEW CONSTRUCTION - NC



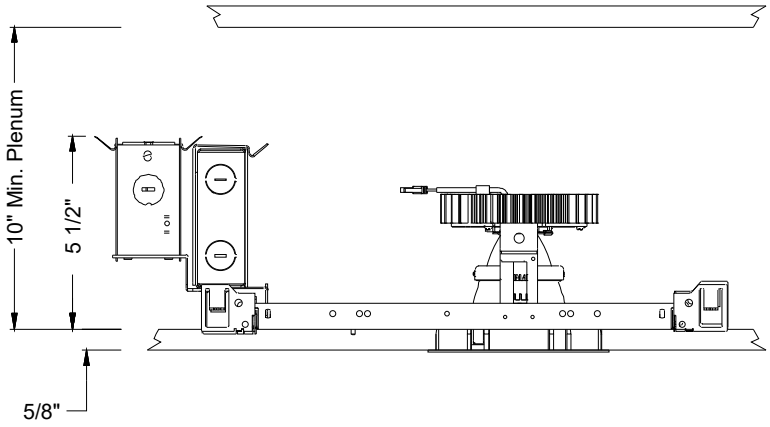


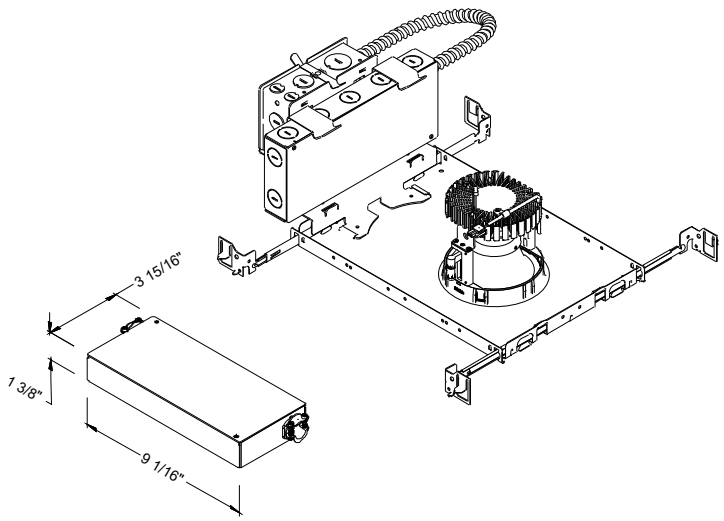
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

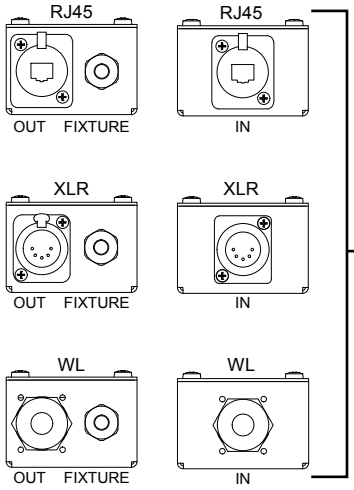
MOUNTING OPTIONS

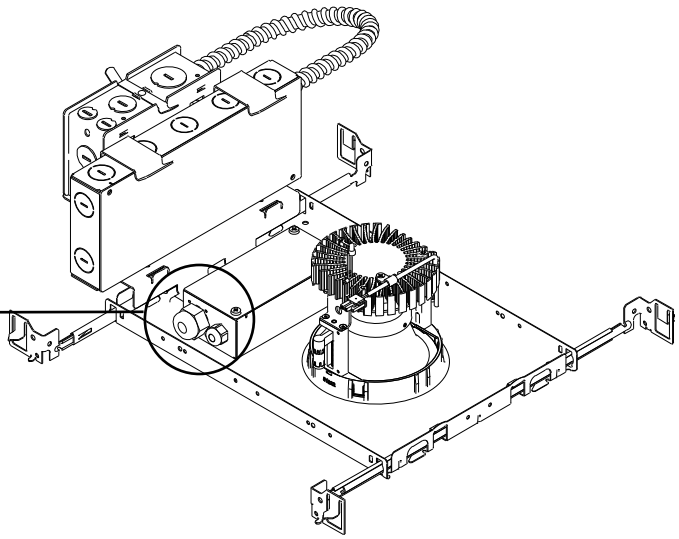
10LM-25LM (DIM10Z / DALIZ-DT6 / DALIZ-DT8)
(BELOW CEILING ACCESSIBLE)



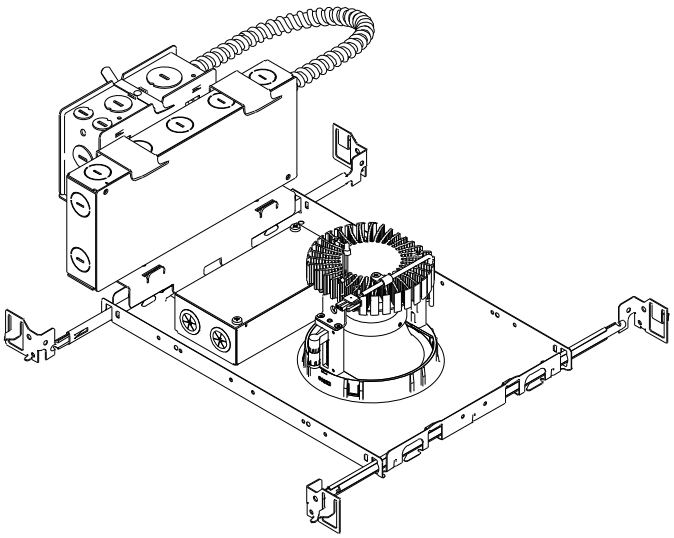


10LM-20LM (DMXZ) - FIXED
(ABOVE CEILING ACCESS REQUIRED)





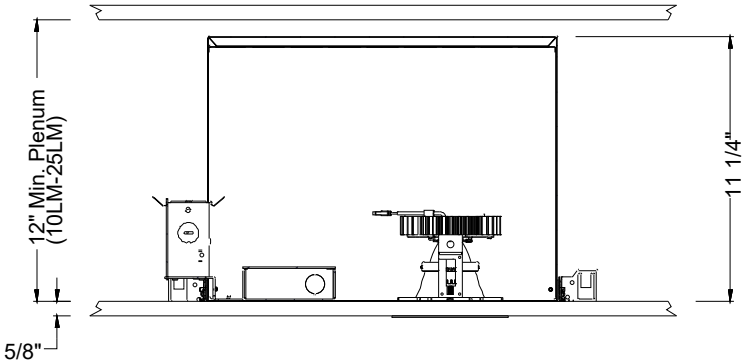
10LM-25LM NLT HOUSING - (NLT)

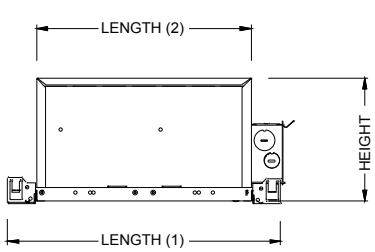


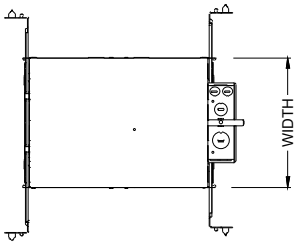
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

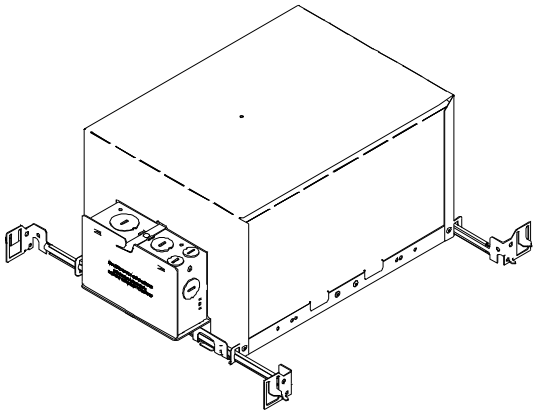
MOUNTING OPTIONS

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"

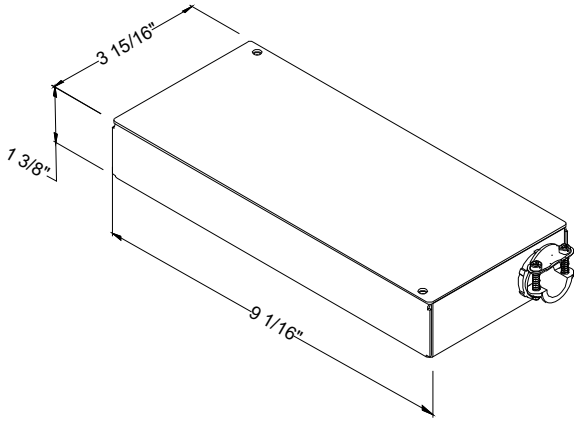
BOX TYPE / LUMEN OUTPUT - STANDARD BEAM (45°-50°)			
LUMEN OUTPUT	BOX-A		
	CP	IC	ICAT
10LM	✔	✔	✔
15LM	✔	✔	✔
20LM	✔	✔	✔
25LM			

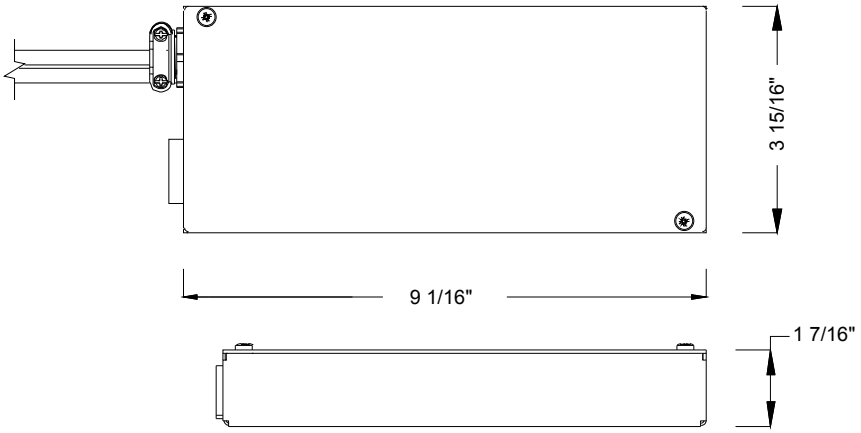
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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

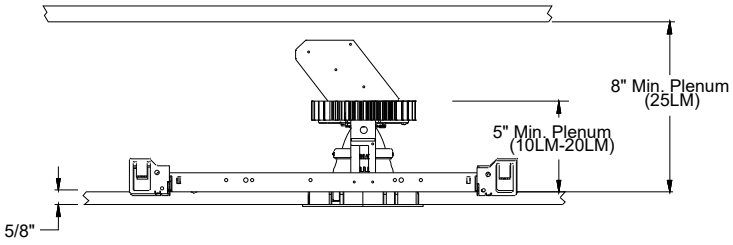




*Remote DX can power LEDs up to 330FT (18 AWG).
Customer will recieve a single remote compact driver per fixture.

PLENUM HEIGHT

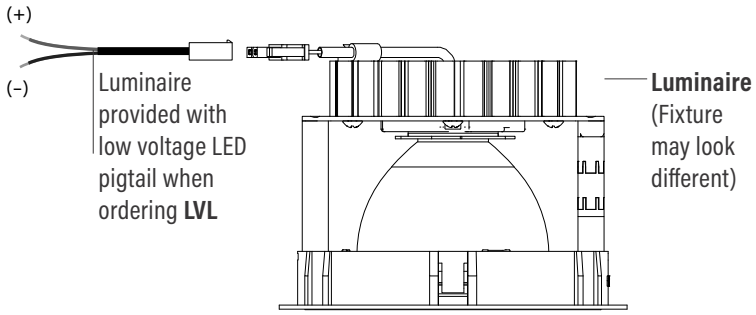
(NC-LVL) NEW CONSTRUCTION REMOTE DX PANEL



**Ref. DX panel specification sheet for remote driver options.*

NOMINAL LED VOLTAGE: 36VDC

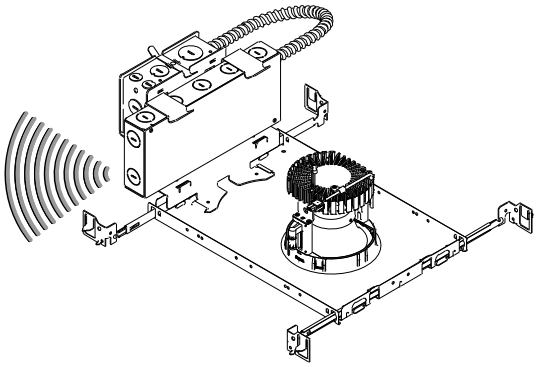
Customer to order CC Remote Driver separately or POE Node by others.



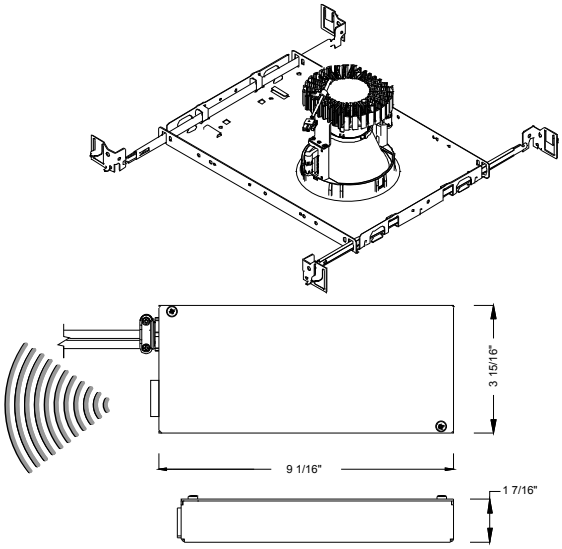
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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 - RH - TW - 20LM - 2765 - 95 - 40D - BK - BK - NC - UNV - DIM10Z - AWN
NU4 - RH - TW - 20LM - 2765 - 95 - 40D - BK - BK - 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