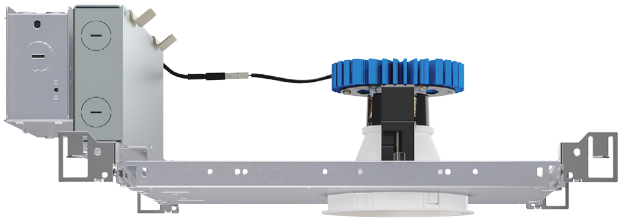
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU4

4" Round Downlight Deep Regress Tunable White

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



25° -55° BEAM (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	**NOMINAL DELIVERED LUMENS**	**SYSTEM WATTAGE**
10LM	1020LM @35K/95CRI	12W
15LM	1500LM @35K/95CRI	17W
20LM	2030LM @35K/95CRI	24W
25LM	2420LM @35K/95CRI	29W
Notes	Delivered lumens based on 35D optic with no lens, (see page 2)	

FEATURES

- Quiet ceiling achieved through 2.5" deep regress
- Superior 38.5° cut off angle
- UGR <5
- Multiple mounting, glare control options, trims, and finishes available

DIMMING AND CONTROLS

- eldoLED flicker free 0-10V dimming to 0%
- eldoLED flicker free DALI dimming to 0%
- DMX-512/RDM dim 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 1-5/8"

LED

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

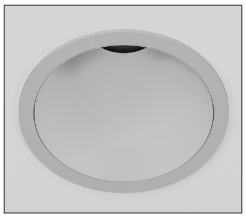
LISTING

- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (Shower Approved)
- NSF/ANSI-2 Listed, with lens (Non-Food and Splash Zones)
- **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

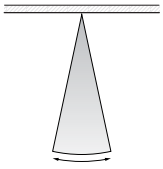


Trimless

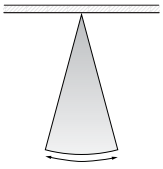


Trimless Millwork

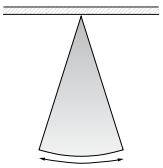
BEAM SPREADS



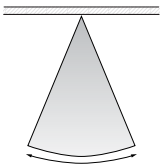
25˚



30˚



35˚



45˚

101498

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU4**	NU4
TYPE	**RDDR**	round downlight deep regress
	RDTDR	round downlight trimless deep regress
	RDTMWDR	round downlight trimless millwork deep regress
LED	**TW**	tunable white (Luminus)
DELIVERED LUMENS	**10LM**	1020 lm
	15LM	1500 lm
	20LM	2030 lm
	25LM	2420 lm
	Standard Configuration: 3500K 35D **NL**	
	Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Optic Multiplier] x [Lens 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	**25D**	25 degrees	(0.92)
	30D	30 degrees	(0.96)
	35D	35 degrees	(1.00)
	45D	45 degrees	(0.96)
TRIM COLOR	**BK**	black	
	WH	white	
	MC	matte chrome	
	BZ	bronze	
	CC[1]	custom color, consult factory for details	
	Not applicable to trimless option. Do not include in trimless ordering code.		
BEZEL COLOR	**BK**	black	(0.90)
	WH	white	(1.00)
	MC	matte chrome	(0.96)
	CU	copper, vacuum metalized	(0.97)
	DC	dark chrome, vacuum metalized	(0.95)
	GN	gun metal, vacuum metalized	(0.99)
	AU	gold, vacuum metalized	(0.98)
	SA	specular, vacuum metalized	(1.00)
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.		

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 - RDDR - TW - 20LM - 2765 - 95 - 35D - NL - WH - WH - 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 (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 x 0.79 = 200 melanopic lux at 4000K.

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 15LM fixtures, unless otherwise noted.

HCL
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
25D	24	<10
30D	29	<10
35D	34	<10
45D	41	<10

NL
No Lens



OPTIC	BEAM ANGLE	UGR
25D	26	<10
30D	31	<10
35D	35	<10
45D	45	<10

CL
Clear Lens



OPTIC	BEAM ANGLE	UGR

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
25D	43	12.2
30D	45	12.6
35D	48	15.9
45D	56	16.8

*DL based on White Bezel

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
25D	29	<10
30D	32	<10
35D	37	<10
45D	44	<10

SBL
Smoothing Beam Lens



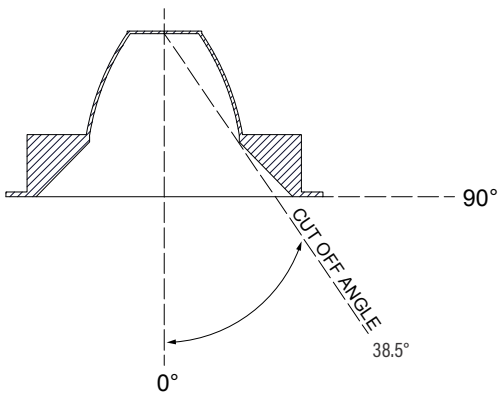
OPTIC	BEAM ANGLE	UGR
25D	26	<10
30D	31	<10
35D	37	<10
45D	45	<10

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 38.5 degrees;



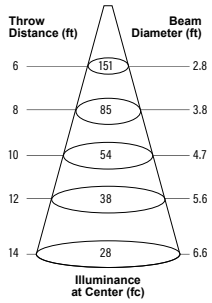
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

15LM

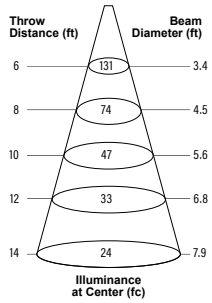
25D — 26° WITH NO LENS, SA BEZEL



WATTS: 17.4	LPW: 79.4
LUMENS: 1382	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	5449
5	5060
15	2341
25	622
35	37
45	3

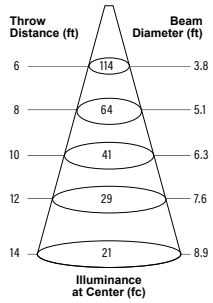
30D — 31° WITH NO LENS, SA BEZEL



WATTS: 17.4	LPW: 82.9
LUMENS: 1442	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	4704
5	4423
15	2515
25	646
35	57
45	6

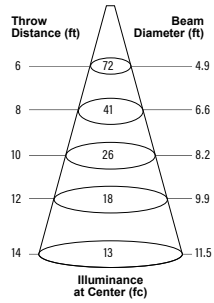
35D — 35° WITH NO LENS, SA BEZEL



WATTS: 17.4	LPW: 86
LUMENS: 1496	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	4105
5	3901
15	2494
25	870
35	71
45	6

45D — 45° WITH NO LENS, SA BEZEL

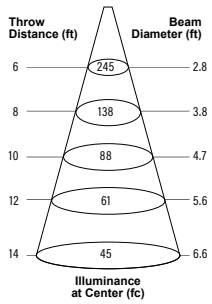


WATTS: 17.4	LPW: 83
LUMENS: 1445	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	2600
5	2491
15	1868
25	1088
35	296
45	11

25LM

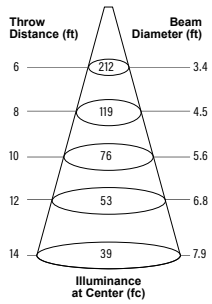
25D — 26° WITH NO LENS, SA BEZEL



WATTS: 28.8	LPW: 77.7
LUMENS: 2239	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	8825
5	8195
15	3791
25	1008
35	60
45	6

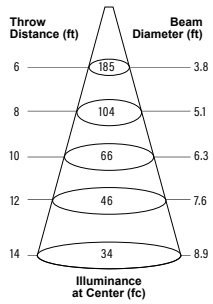
30D — 31° WITH NO LENS, SA BEZEL



WATTS: 28.8	LPW: 81.1
LUMENS: 2335	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	7619
5	7164
15	4073
25	1046
35	92
45	9

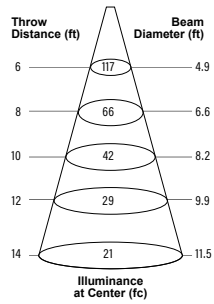
35D — 35° WITH NO LENS, SA BEZEL



WATTS: 28.8	LPW: 84.1
LUMENS: 2423	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	6649
5	6319
15	4040
25	1409
35	115
45	10

45D — 45° WITH NO LENS, SA BEZEL



WATTS: 28.8	LPW: 81.3
LUMENS: 2340	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	4211
5	4035
15	3026
25	1763
35	480
45	17

101498

alphabet

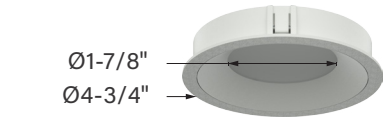
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

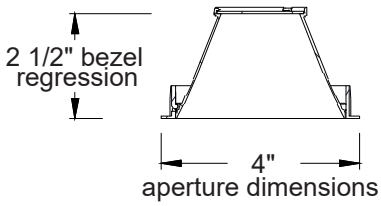
TRIM OPTIONS

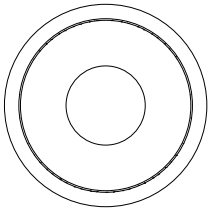
TRIM/BEZEL COLORS



TRIMMED

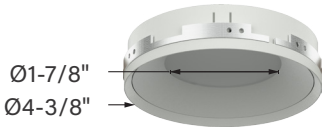


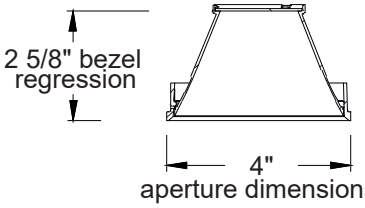


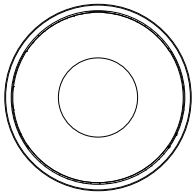


ceiling cutout
4-3/8" diameter
ceiling thickness
1/8" to 1-5/8"

MILLWORK

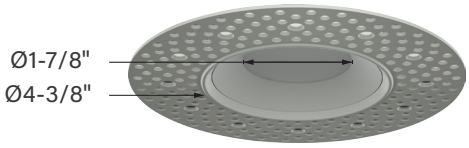


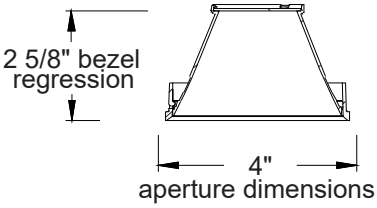


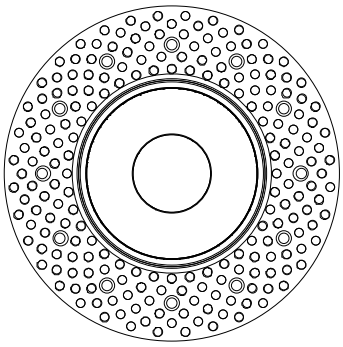


ceiling cutout
4-3/8" diameter
ceiling thickness
1/2" to 1-3/4"

TRIMLESS







ceiling cutout
4-1/2" diameter
ceiling thickness
3/8" to 1-3/4"

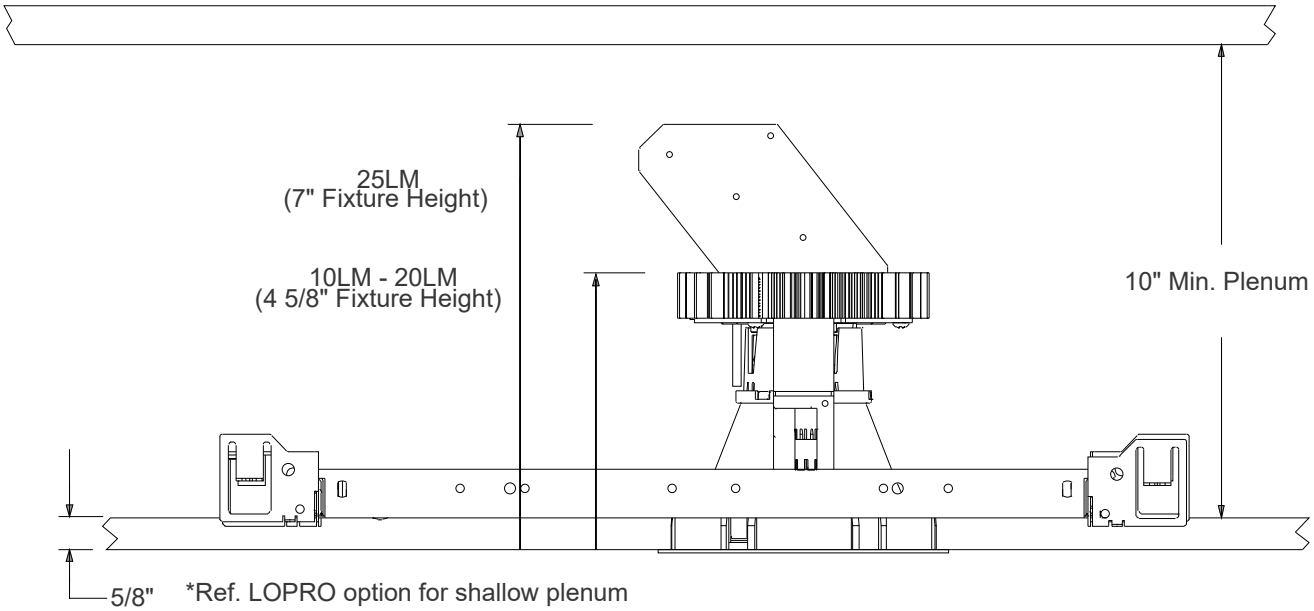
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

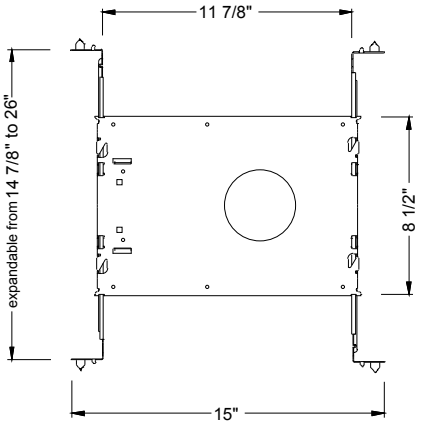
RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✔				
TYPE IC		✔	✔		
CHICAGO PLENUM (CCEA)				✔	
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔	✔	
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔	✔	✔	✔	

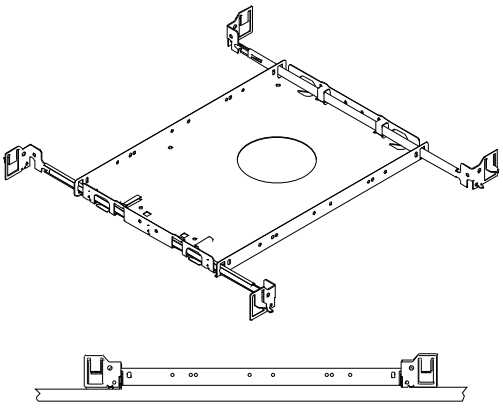
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-5/8"	4-3/8"
TRIMLESS	3/8" to 1-3/4"	4-1/2"
MILLWORK (TRIMLESS)	1/2" to 1-3/4"	4-1/2"

PLENUM HEIGHT



NEW CONSTRUCTION - NC



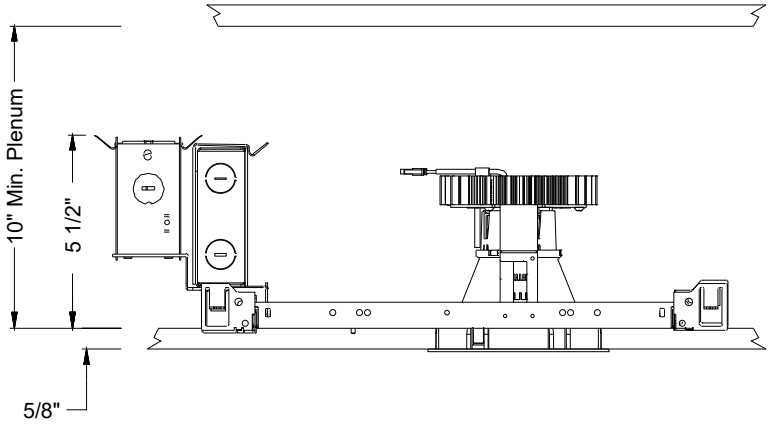


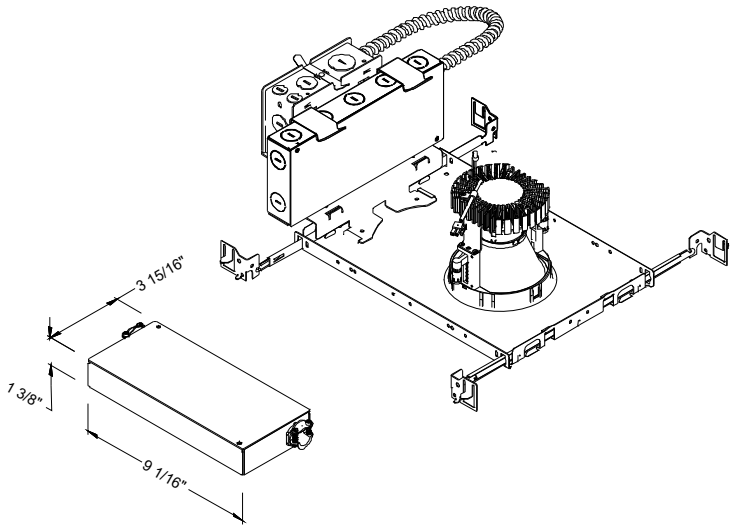
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

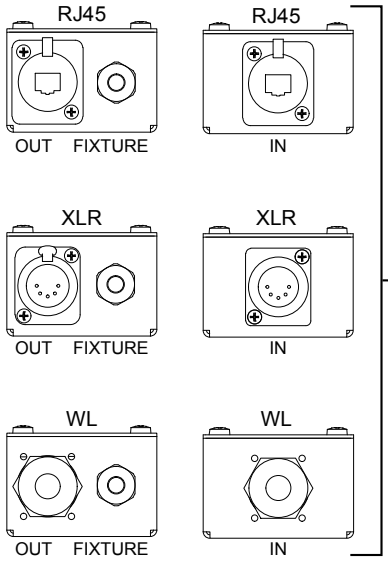
MOUNTING OPTIONS

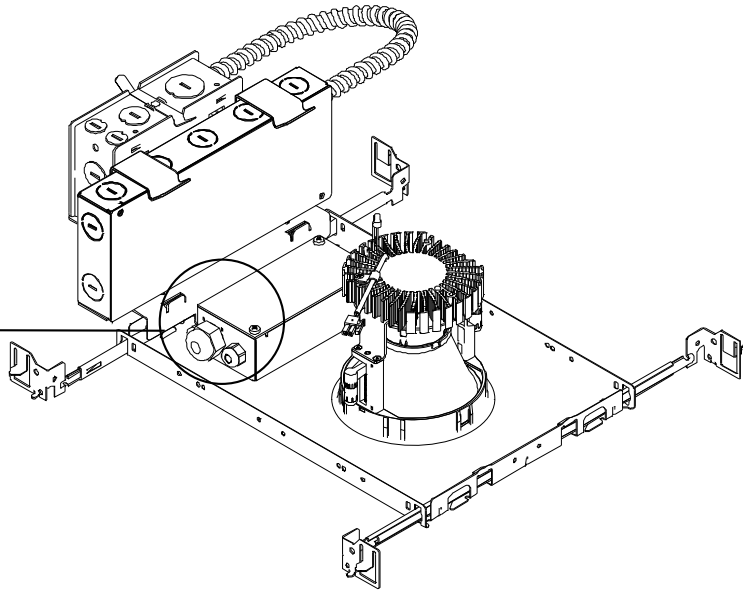
10LM-25LM (DIM10 / DIM10Z / DALI / DALIZ) - FLOATING
(BELOW CEILING ACCESSIBLE)



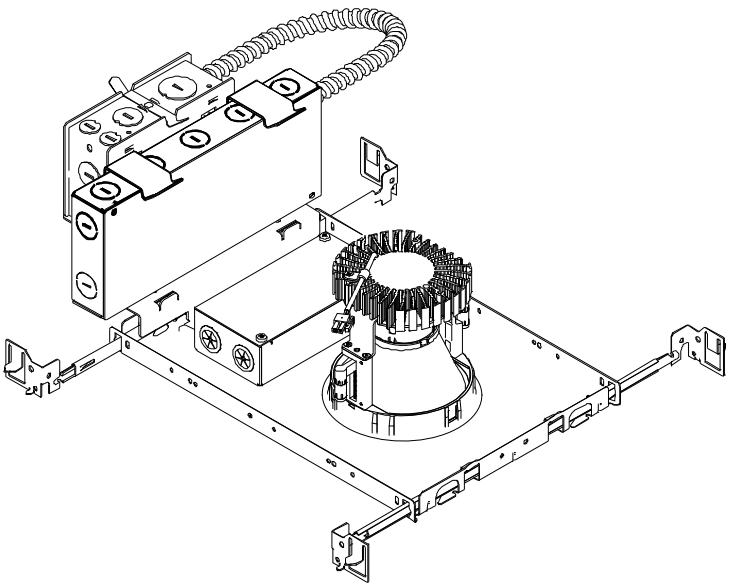


10LM-25LM (DMXZ) - FIXED
(ABOVE CEILING ACCESS REQUIRED)





10LM-25LM NLT HOUSING - (NLT) - FIXED
(ABOVE CEILING ACCESS REQUIRED)



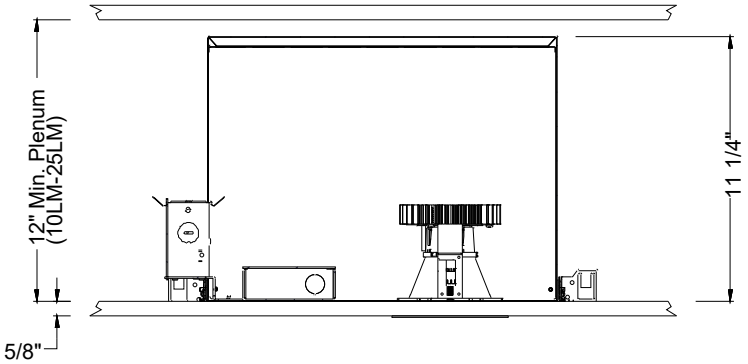
In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

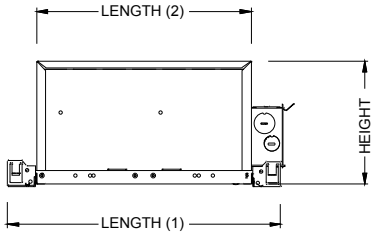
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

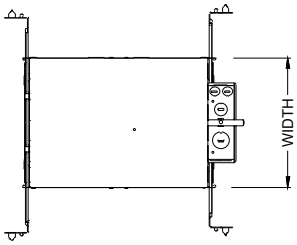
MOUNTING OPTIONS

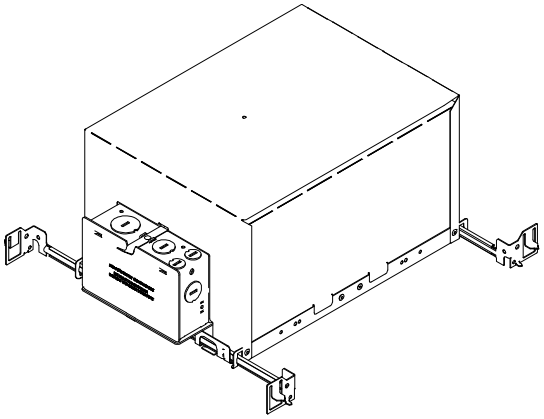
IC - INSULATION CONTACT | ICAT - INSULATION CONTACT / AIR TIGHT | CP - CHICAGO PLENUM — FLOATING

(DIM10 / DIM10Z / DALI / DALIZ / LUTP / ELV1 / ND)









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

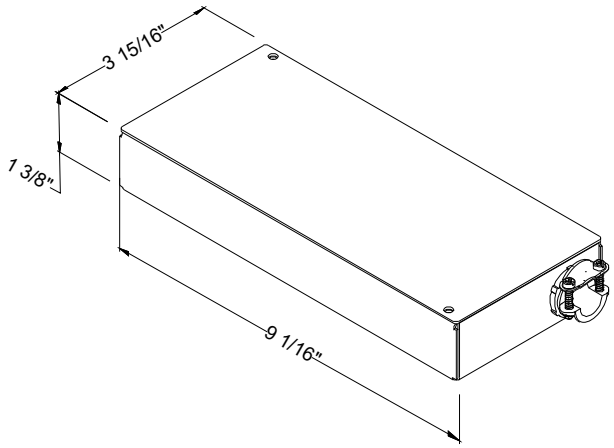
BOX TYPE / LUMEN OUTPUT - STANDARD BEAM (25°-45°)									
LUMEN OUTPUT	BOX-A			BOX-B			BOX-C		
	CP	IC	ICAT	CP	IC	ICAT	CP	IC	ICAT
10LM	✔	✔	✔	✔	✔	✔	✔	✔	✔
15LM	✔	✔	✔	✔	✔	✔	✔	✔	✔
20LM	✔	✔	✔	✔	✔	✔	✔	✔	✔
25LM									

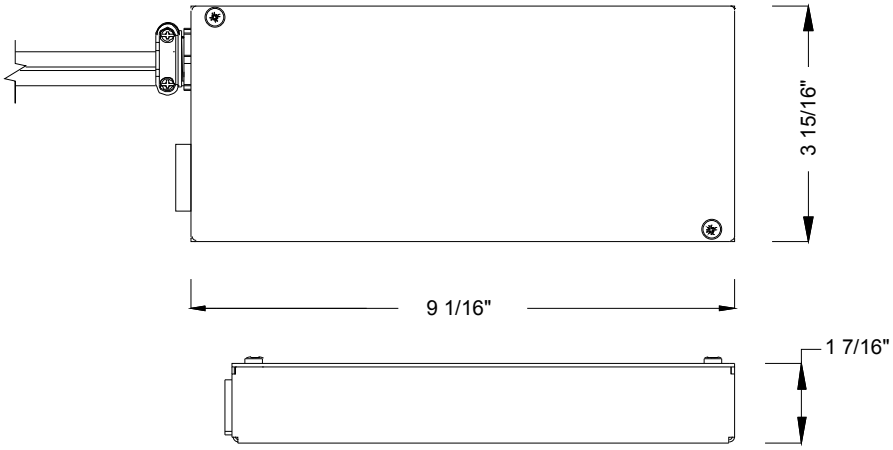
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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

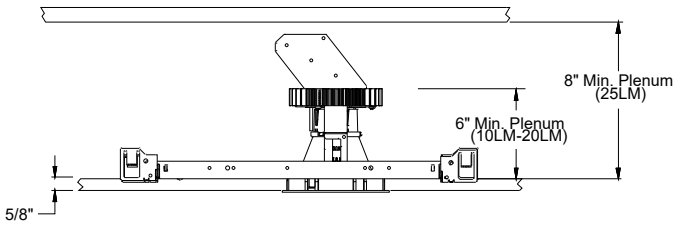




*Remote DX can power LEDs up to 330FT (18 AWG).
Customer will recieve a single remote compact driver per fixture.

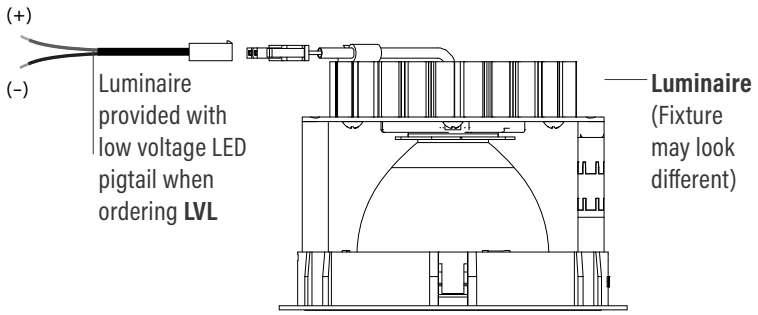
PLENUM HEIGHT

(NC-LVL) NEW CONSTRUCTION REMOTE DX PANEL



NOMINAL LED VOLTAGE: 36VDC

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

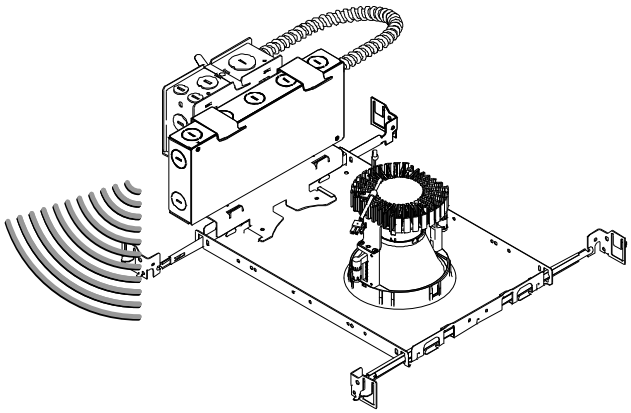


Ref. DX panel specification sheet for remote driver options.

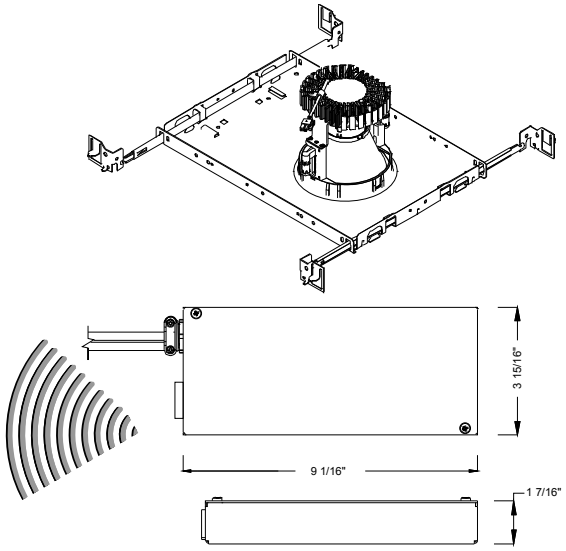
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

WIRELESS OPTIONS

NC - NEW CONSTRUCTION
PLENUM SIDE



NC - NEW CONSTRUCTION
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 - RDDR - TW - 20LM - 2765 - 95 - 35D - NL - WH - WH - NC - UNV - DIM10Z - AWN
NU4 - RDDR - TW - 20LM - 2765 - 95 - 35D - NL - 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

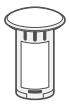
(DALI2 Driver): Moons D4i DALI2 LED driver with DALI Bus Power, Dim-to-off

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