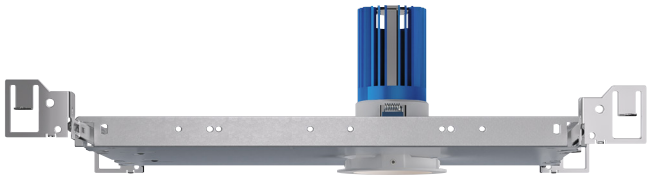
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU2

2" Round Deep Regress Tuneable White

NSF AT airtight PR plenum rated wet rated



25° - 55° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	940LM @35K/95CRI	12W
12LM	1250LM @35K/95CRI	16W
Notes	Delivered lumens based on 35D optic with no lens, (see page 2)	

15° - 20° BEAM (Note: Specifications are subject to change without notice)		
6mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	650LM @35K/95CRI	9W
Notes	Delivered lumens based on 20D optic with no lens, (see page 2)	

FEATURES

- 1" bezel regress with 3/8" micro flange
- UGR < 12
- 96 LPW average
- Glare control, specialty optics, trim options, and custom finishes available
- Microban® antimicrobial finish available on all exposed painted surfaces

DIMMING AND CONTROLS

- eldoLED 0-10V, dim to 0.1%
- eldoLED DALI, dim to 0.1%
- DMX-512/RDM, dim to 0.1%
- Wireless control options, dim to 0.1% (Ref. page 10)

CONSTRUCTION

- High-grade die-cast and cold forged aluminum alloy assembly with superior thermal and corrosion resistant properties
- Shatter proof acrylic bezel lens
- 20-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/8" to 2"
- **CUTOUT DIMENSIONS:**
  Trim - 2-5/8"
  Trimless - 2-5/8"
  Millwork - 2-5/16"

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
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- 5 Year Limited warranty

ELECTRICAL

- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Max. ambient installation temperature 95°F (35°C)

TRIM OPTIONS



Trimmed

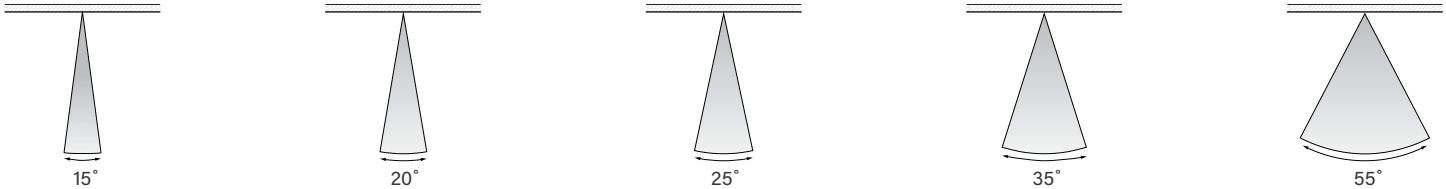


Trimless



Trimless Millwork

BEAM SPREADS



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU2**	NU2
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**	940 lm, 650 lm (15D/20D)
	12LM	1250 lm
	Standard Configuration: 3500K 95CRI 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 CRI	
OPTIC & LM MULTIPLIER	**15D**	15 degrees	(1.00)
	20D	20 degrees	(1.00)
	25D	25 degrees	(0.98)
	35D	35 degrees	(1.00)
	55D	55 degrees	(0.95)
ACCESSORY	**NA**	no accessory	
	HCL	honeycomb louver	(0.70)
BEZEL LENS	**NL**	no lens	(1.00)
	CL	clear lens	(0.96)
	DL	diffused lens	(0.90)
	HET	high efficiency textured lens, similar to Solite™	(0.94)
	SBL	smoothing beam lens	(0.95)
	Maximum 2pcs of media per fixture.		
TRIM COLOR	**BK**	black	(0.98)
	WH	white	(1.00)
	MC	matte chrome	(0.99)
	BZ	bronze	(0.98)
	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	(0.98)
	WH	white	(1.00)
	MC	matte chrome	(0.99)
	BZ	bronze	(0.98)
	CC[1]	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
	RET[2]	retrofit, no ceiling plate
VOLTAGE	**UNV**[3]	120V-277V
	LVL[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%
	DMX-RJ45	DMX control dimming to 0.1% with RJ45 connection
	DMX-WL	DMX-512/RDM dim to 0% with lead wire input
	DMX-XLR	DMX-512/RDM dim to 0% with XLR input
	ND	no driver included
	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:

NU2 - RDDR - TW - 10LM - 2765 - 95 - 35D - NA - CL - WH - WH - NC - UNV - DIM10Z

NOTES

1. Custom set up fee plus minimum quantity required per color.
2. RET available in LVL option only.
3. Requires above ceiling access
4. Must select DX dimming with LVL
5. Requires 2 wall controllers.

* EldoLED 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
- Calculations based on 10LM fixtures, unless otherwise noted

HCL
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
15D	17	<10
20D	20	<10
25D	23	<10
35D	32	<10
55D	48	11.6

NL
No Lens



OPTIC	BEAM ANGLE	UGR
15D	17	<10
20D	21	<10
25D	23	<10
35D	37	<10
55D	57	17.3

CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
15D	18	<10
20D	22	<10
25D	24	<10
35D	37	<10
55D	56	17.5

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
25D	38	15.2
35D	45	16.5
55D	57	20.8

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
15D	22	<10
20D	24	<10
25D	27	<10
35D	37	10.9
55D	55	18.2

SBL
Smoothing Beam Lens



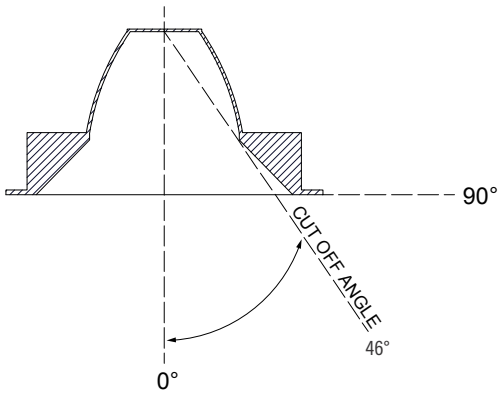
OPTIC	BEAM ANGLE	UGR
15D	19	<10
20D	23	<10
25D	25	<10
35D	37	10.2
55D	56	17.1

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 46 degrees;



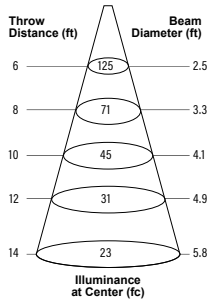
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

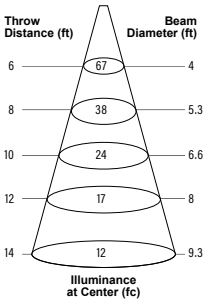
10LM

25D 23° NO LENS



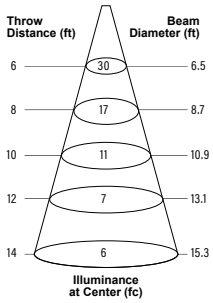
WATTS: 12	LPW: 76.4
LUMENS: 917	CCT: 3500K
INTENSITY	
DEGREE	CANDELA
0	4514
5	4119
15	1344
25	257
35	45
45	18

35D 37° NO LENS



WATTS: 12	LPW: 78
LUMENS: 936	CCT: 3500K
INTENSITY	
DEGREE	CANDELA
0	2420
5	2323
15	1564
25	516
35	45
45	17

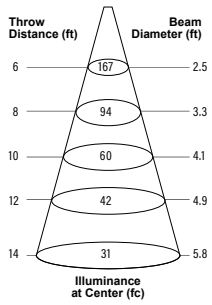
55D 57° NO LENS



WATTS: 12	LPW: 74.3
LUMENS: 891	CCT: 3500K
INTENSITY	
DEGREE	CANDELA
0	1080
5	1050
15	912
25	666
35	237
45	47

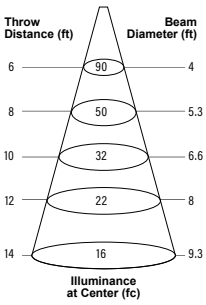
12LM

25D 23° NO LENS



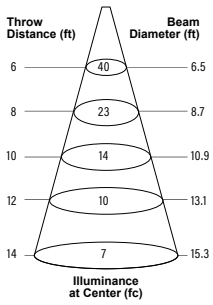
WATTS: 15	LPW: 81.6
LUMENS: 1224	CCT: 3500K
INTENSITY	
DEGREE	CANDELA
0	6023
5	5496
15	1794
25	343
35	60
45	24

35D 37° NO LENS



WATTS: 15	LPW: 83.3
LUMENS: 1249	CCT: 3500K
INTENSITY	
DEGREE	CANDELA
0	3230
5	3099
15	2087
25	689
35	60
45	22

55D 57° NO LENS



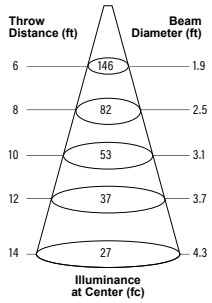
WATTS: 15	LPW: 79.3
LUMENS: 1189	CCT: 3500K
INTENSITY	
DEGREE	CANDELA
0	1441
5	1401
15	1217
25	889
35	316
45	63

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

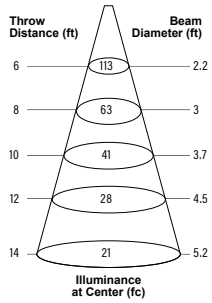
10LM

15D
17° NO LENS



WATTS: 8.9	LPW: 73.1
LUMENS: 651	CCT: 3500K
INTENSITY	
DEGREE	CANDELA
0	5269
5	4347
15	763
25	103
35	24
45	11

20D
21° NO LENS



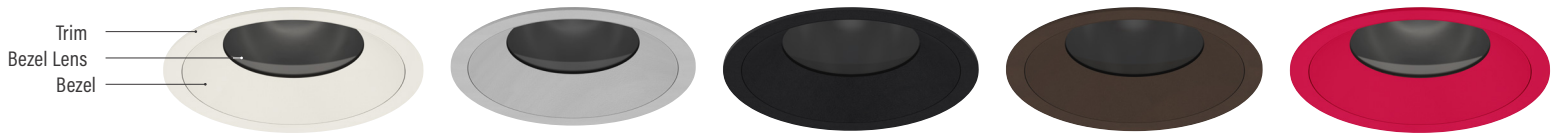
WATTS: 8.9	LPW: 73.3
LUMENS: 653	CCT: 3500K
INTENSITY	
DEGREE	CANDELA
0	4058
5	3467
15	910
25	128
35	27
45	10

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

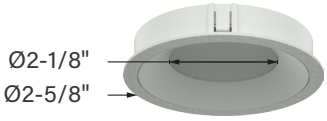
TRIM OPTIONS

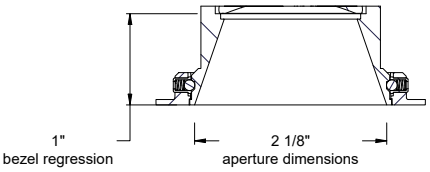
TRIM/BEZEL COLORS

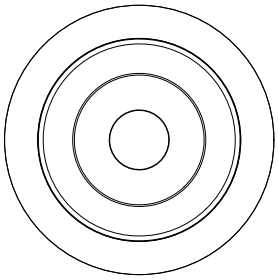


WH MC BK BZ CC

TRIMMED



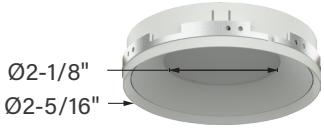


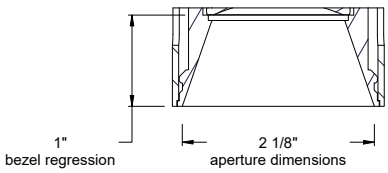


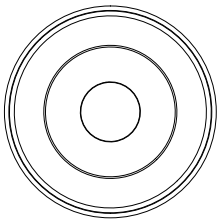
ceiling cutout
2-5/8" diameter

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

MILLWORK



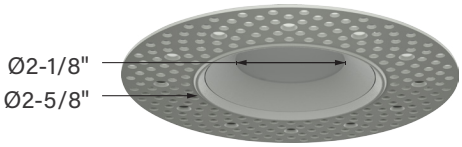


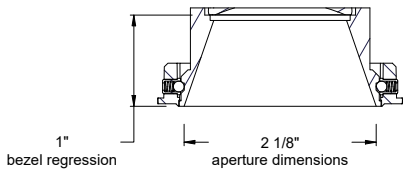


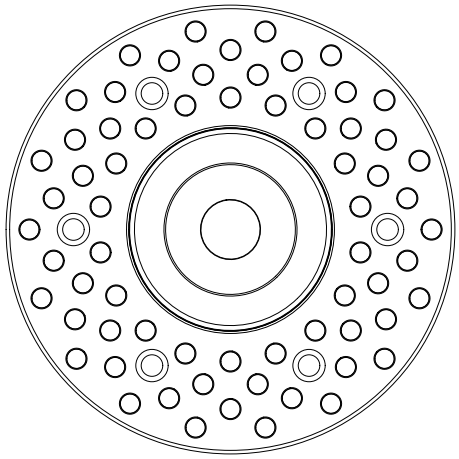
ceiling cutout
2-5/16" diameter

ceiling thickness
3/8" to 2"

TRIMLESS







ceiling cutout
2-5/8" diameter

ceiling thickness
3/8" to 2"

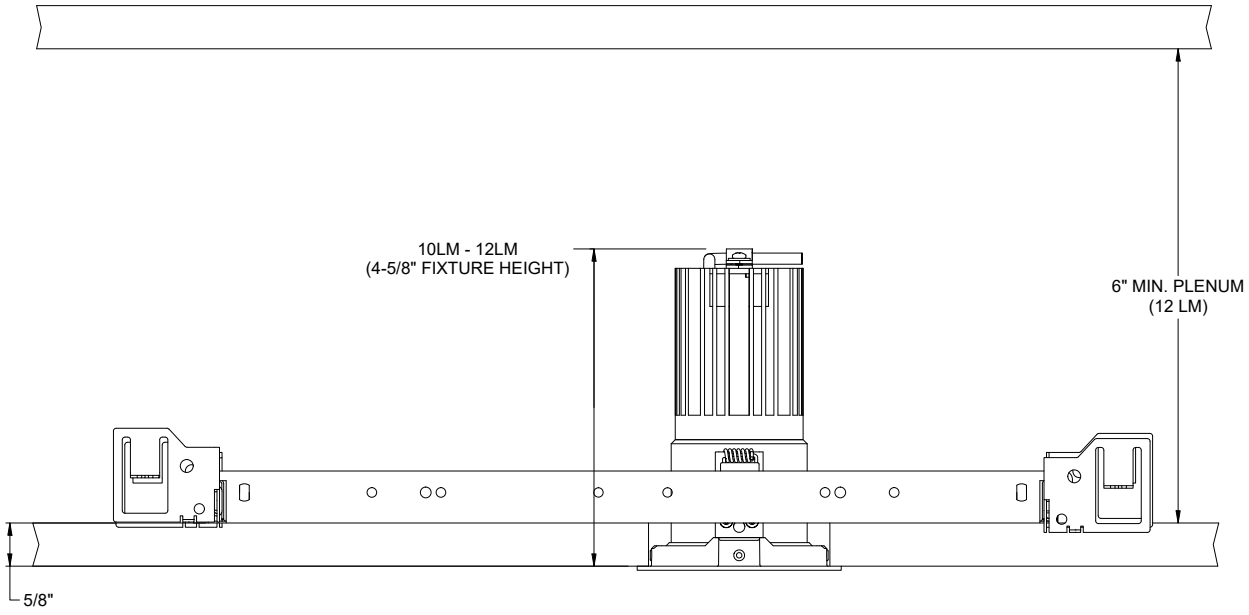
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

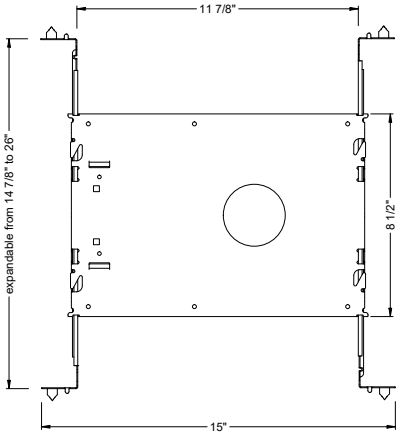
RATINGS / CERTIFICATIONS	NC	RET
TYPE NON-IC	✔	✔
TYPE IC		
CHICAGO PLENUM (CCEA)		
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283		

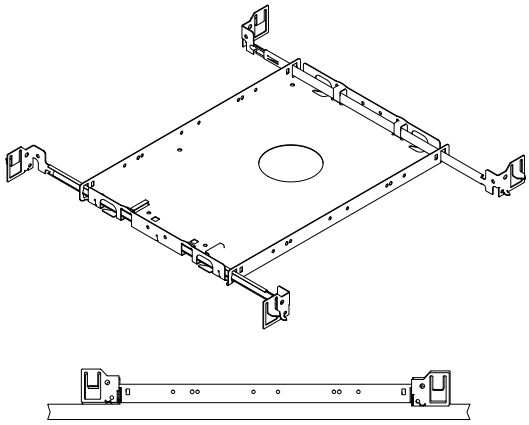
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-3/4"	2-5/8"
TRIMLESS	3/8" to 2"	2-5/8"
MILLWORK (TRIMLESS)	3/8" to 2"	2-5/16"

PLENUM HEIGHT



NEW CONSTRUCTION - NC



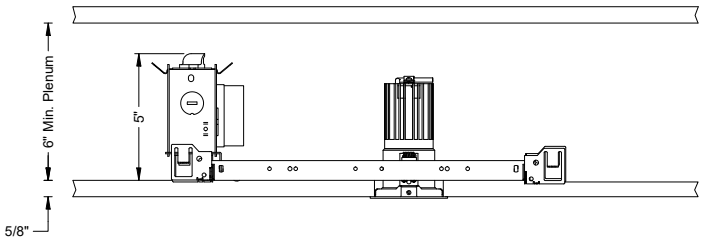


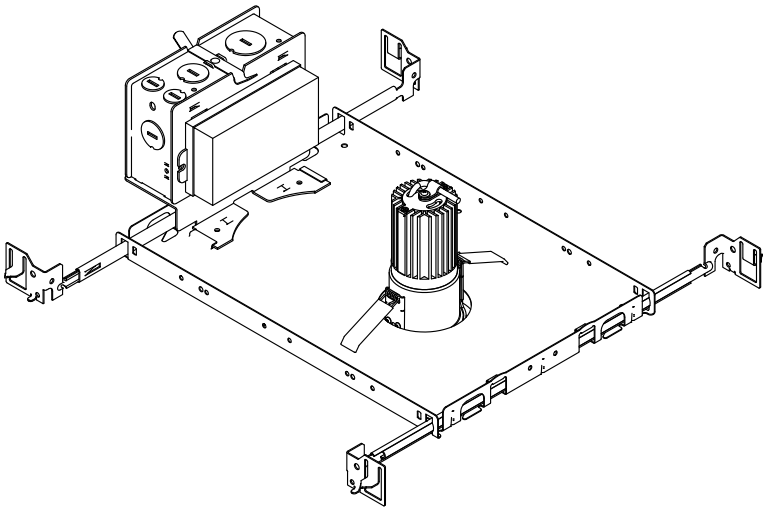
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

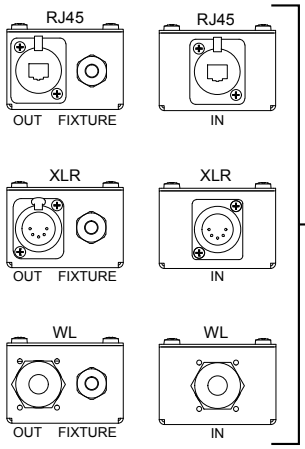
MOUNTING OPTIONS

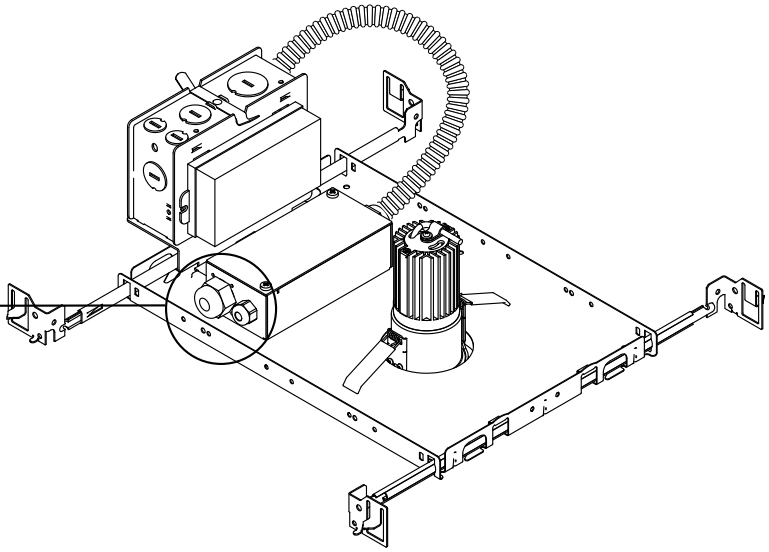
10LM-12LM (DIM10Z / DALIZ-DT6 / DALIZ-DT8) - FIXED
(ABOVE CEILING ACCESS REQUIRED)





10LM-12LM (DMX-WL / DMX-XLR / DMXZ-RJ45) - FIXED
(ABOVE CEILING ACCESS REQUIRED)





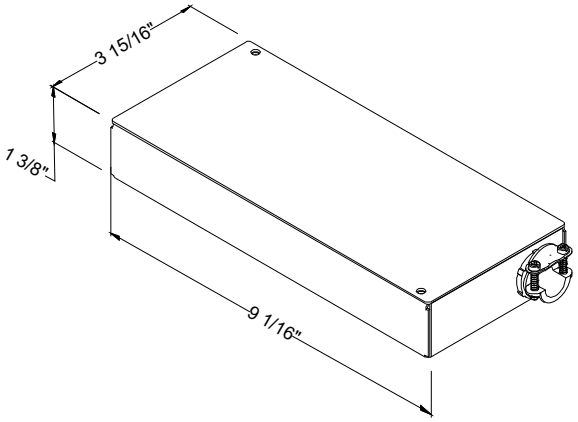
In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

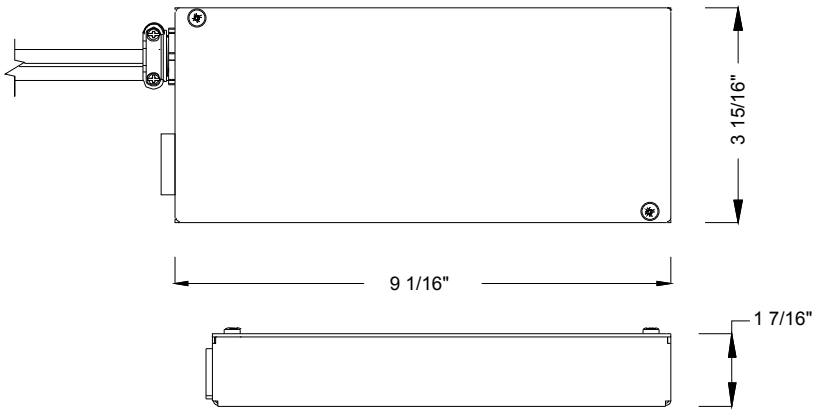
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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.

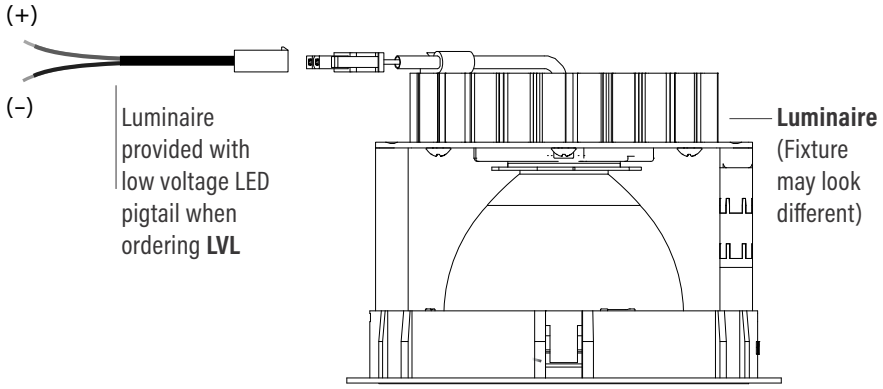
LOW VOLTAGE OPTIONS

25° - 55° BEAM (Note: Specifications are subject to change without notice)			
9mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	940LM @35K/95CRI	250mA	9W
12LM	1250LM @35K/95CRI	350mA	13W
Notes	Delivered lumens based on 35D optic with no lens, (see page 2)		

15° - 20° BEAM (Note: Specifications are subject to change without notice)			
6mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	650LM @35K/95CRI	175mA	6.5W
Notes	Delivered lumens based on 20D optic with no lens, (see page 2)		

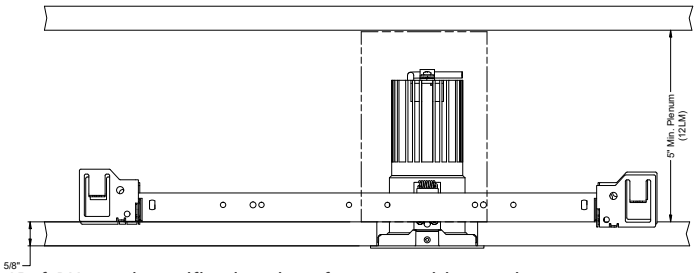
NOMINAL LED VOLTAGE: 36VDC

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

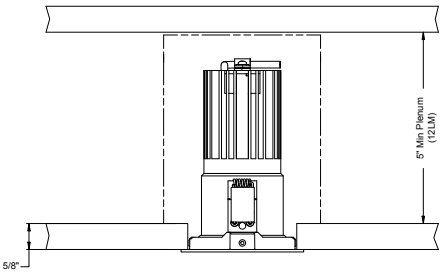


PLENUM HEIGHT

(NC-LVL) NEW CONSTRUCTION REMOTE DX PANEL



(RET-LVL) REMOTE DX PANEL RETRO



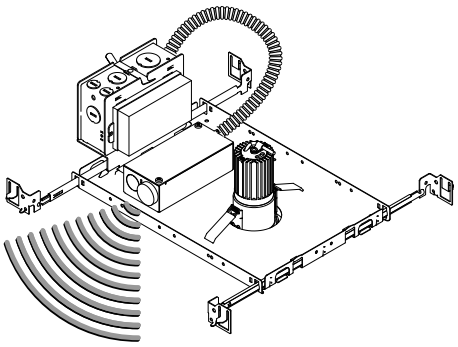
Ref. DX panel specification sheet for remote driver options.

alphabet

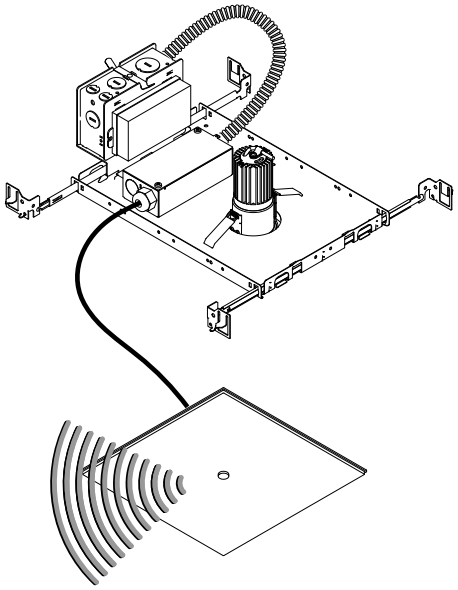
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

WIRELESS OPTIONS

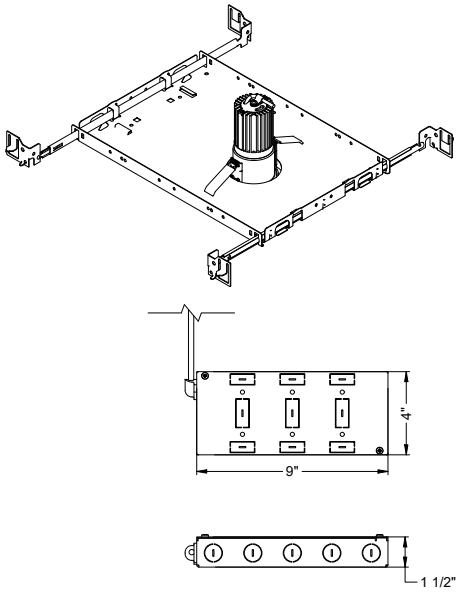
NC - NEW CONSTRUCTION
PLENUM SIDE



NC - NEW CONSTRUCTION
R CEILING 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:
NU2 - RDDR - TW - 12LM - 3018 - 95 - 35D - NA - CL - WH - WH - NC-F - UNV - AWND
NU2 - RDDR - TW - 12LM - 3018 - 95 - 35D - NA - CL - WH - WH - NC - LVL - AWND - 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
AWND-R . . .athena wireless OCC Sensor / 4FT lead (DALI2 Driver) - ceiling installation



MODEL NUMBER

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

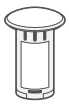
POWER SUPPLY

(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
SENSI-R . . . SensiLUM sensor / 4FT lead (DALI2 Driver) - ceiling installation



MODEL NUMBER

CLM model #: ZBHA-CLM-DIM
SensiLUM sensor model #: EN-CLM-PIR-DD-ZB

POWER SUPPLY

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