alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

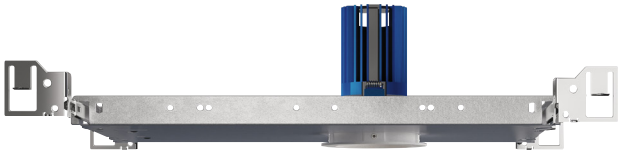
NU2

2" Round Downlight Tunable White

NSF AT airtight PR plenum rated wet rated

25° - 60° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	960LM @35K/95CRI	12W
12LM	1280LM @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	680LM @35K/95CRI	9W
Notes	Delivered lumens based on 20D optic with no lens, (see page 2)	



FEATURES

- 1/2" bezel regress with 3/8" micro flange
- UGR < 17
- 98 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 11)

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

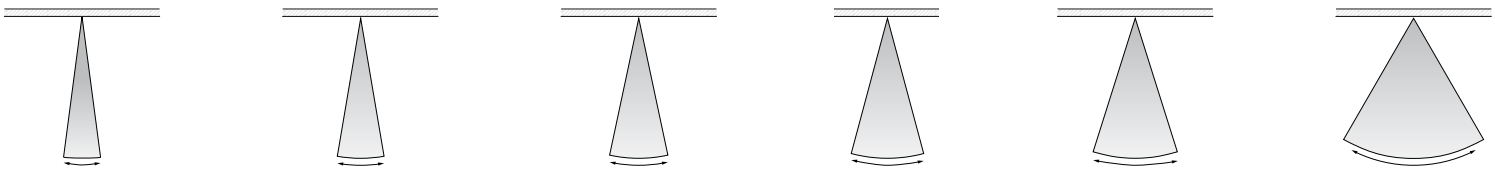


Trimless



Trimless Millwork

BEAM SPREADS



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU2**	NU2
TYPE	**RD**	round downlight
	RDT	round downlight trimless
	RDTMW	round downlight trimless millwork
LED	**TW**	tunable white (Luminus)
DELIVERED LUMENS	**10LM**	960 lm, 680 lm (15D/20D)
	12LM	1280 lm
	Standard Configuration: 3500K 95CRI 35D, **CL**	
	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	(0.98)
	20D	20 degrees	(1.00)
	25D	25 degrees	(0.97)
	30D	30 degrees	(0.98)
	35D	35 degrees	(1.00)
	60D	60 degrees	(0.99)
ACCESSORY	**NA**	no accessory	
	HCL	honeycomb louver	(0.72)
BEZEL LENS	**NL**	no lens	(1.00)
	CL	clear lens	(0.96)
	DL	diffused lens	(0.92)
	E[1]	elliptical beam spread	(0.85)
	HET	high efficiency textured lens, similar to Solite™	(0.95)
	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[2]	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[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
	RET[3]	retrofit, no ceiling plate
VOLTAGE	**UNV**[4]	120V-277V
	LVL[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%
	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
	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 - RD - TW - 10LM - 2765 - 95 - 35D - NA - CL - WH - WH - NC - UNV - DIM10Z

NOTES

1. Elliptical lens not available with 15D/20D optic options
2. Custom set up fee plus minimum quantity required per color.
3. RET available in LVL option only.
4. Requires above ceiling access.
5. Must select DX dimming with LVL.
6. Requires 2 wall controllers.

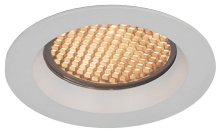
* EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

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	17	<10
25D	23	<10
30D	25	<10
35D	33	<10
60D	50	<10

NL
No Lens



OPTIC	BEAM ANGLE	UGR
15D	17	<10
20D	21	<10
25D	23	10.6
30D	26	10.8
35D	37	10.2
60D	62	13.4

CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
15D	18	<10
20D	21	<10
25D	24	<10
30D	27	11.9
35D	37	12
60D	61	13.6

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
25D	38	15.3
30D	40	16.6
35D	46	16.8
60D	64	20.4

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
15D	22	<10
20D	24	<10
25D	27	10.4
30D	28	12.2
35D	37	12.7
60D	59	15.4

SBL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
15D	20	<10
20D	23	<10
25D	25	<10
30D	28	11.8
35D	37	12.2
60D	60	14.4

E
Elliptical Lens



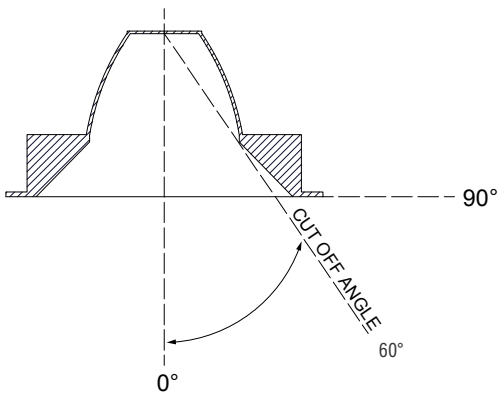
OPTIC	BEAM ANGLE	UGR
25D	38x63	16x20
30D	40x65	17x21
35D	46x71	17x22
60D	65x87	21x25

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 is 60° degrees;



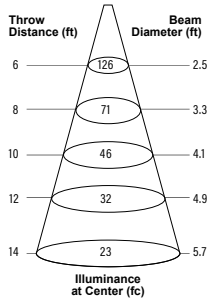
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

10LM

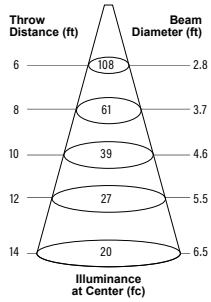
25D 23° NO LENS



WATTS: 12.4	LPW: 76.1
LUMENS: 943	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	4554
5	4149
15	1344
25	255
35	57
45	28

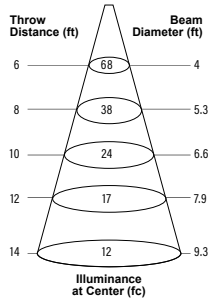
30D 27° NO LENS



WATTS: 12.4	LPW: 75.7
LUMENS: 939	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	3884
5	3574
15	1446
25	279
35	64
45	29

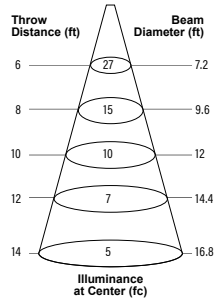
35D 37° NO LENS



WATTS: 12.4	LPW: 77.6
LUMENS: 962	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	2441
5	2344
15	1574
25	512
35	62
45	25

60D 62° NO LENS

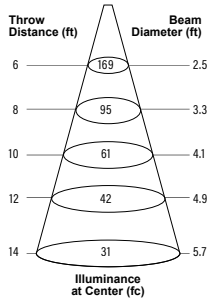


WATTS: 12.4	LPW: 76.3
LUMENS: 947	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	964
5	957
15	874
25	666
35	333
45	91

12LM

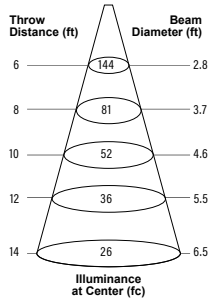
25D 23° NO LENS



WATTS: 16.4	LPW: 76.6
LUMENS: 1257	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	6068
5	5529
15	1791
25	340
35	76
45	37

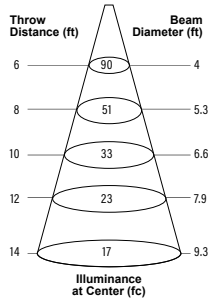
30D 27° NO LENS



WATTS: 16.4	LPW: 76.3
LUMENS: 1251	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	5176
5	4762
15	1927
25	372
35	85
45	39

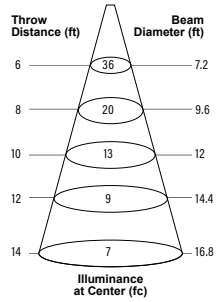
35D 37° NO LENS



WATTS: 16.4	LPW: 78.2
LUMENS: 1282	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	3253
5	3124
15	2097
25	682
35	83
45	34

60D 62° NO LENS



WATTS: 16.4	LPW: 76.9
LUMENS: 1262	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	1285
5	1275
15	1165
25	888
35	444
45	121

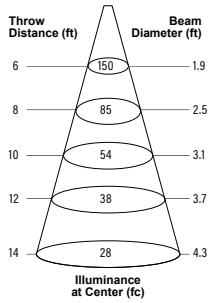
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

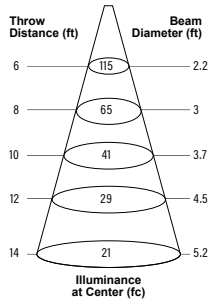
10LM CCT MULTIPLIERS	
	90CRI
2700K	0.96
3000K	1
3500K	1.01
4000K	1.02
FC Formula = CBCP / Distance	

15D 17° NO LENS



WATTS: 8.9	LPW: 76.3
LUMENS: 679	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	5410
5	4463
15	769
25	103
35	31
45	18

20D 21° NO LENS

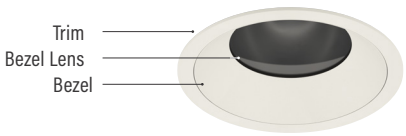


WATTS: 8.9	LPW: 76.9
LUMENS: 684	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	4141
5	3538
15	932
25	130
35	36
45	19

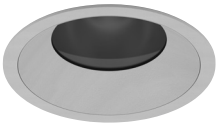
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS



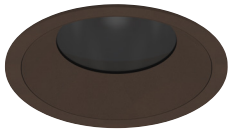
WH



MC



BK

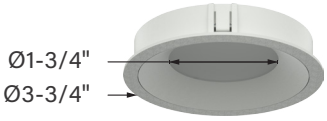


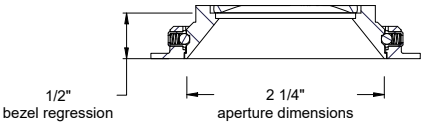
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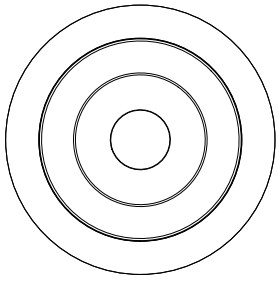


CC

TRIMMED



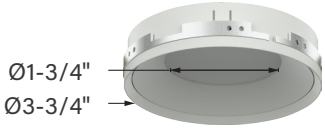


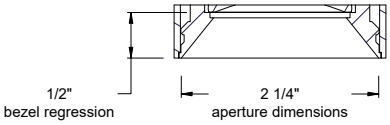


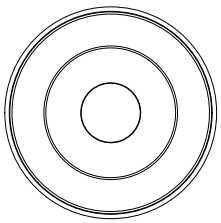
ceiling cutout
2-5/8" diameter

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

MILLWORK



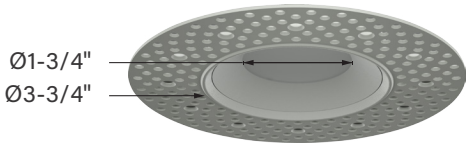


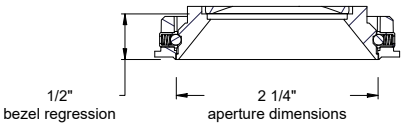


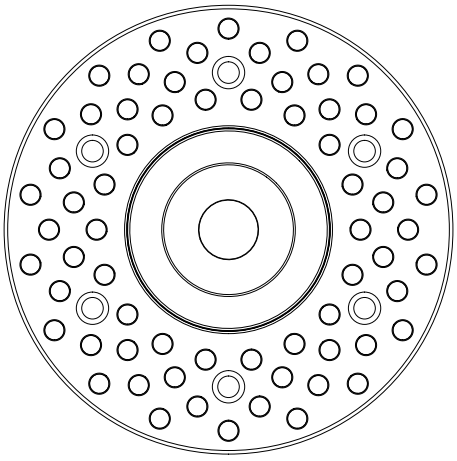
ceiling cutout
2-3/8" diameter

ceiling thickness
3/8" to 2"

TRIMLESS







ceiling cutout
2-5/8" diameter

ceiling thickness
3/8" to 2"

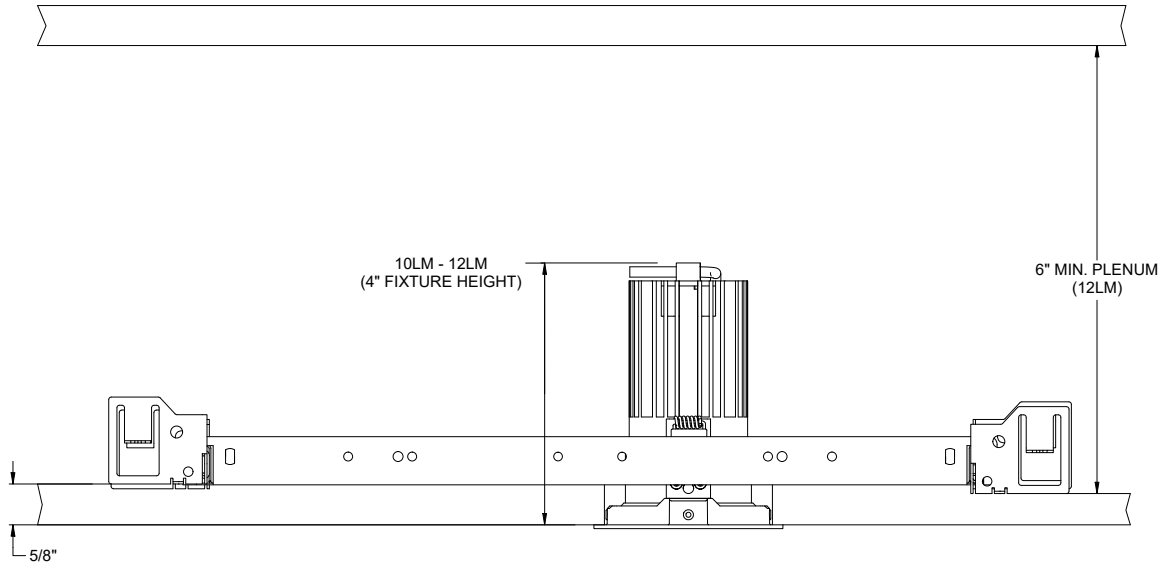
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

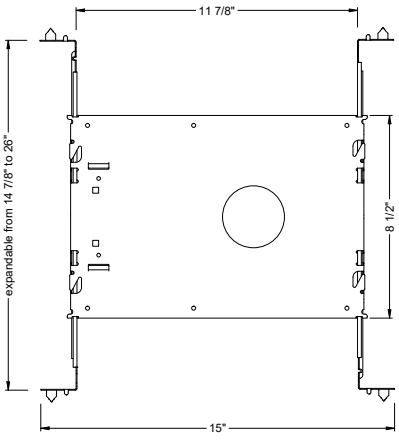
RATINGS / CERTIFICATIONS	NC	RET
TYPE NON-IC	✔	✔
TYPE IC		
CHICAGO PLENUM (CCEA)		
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283		

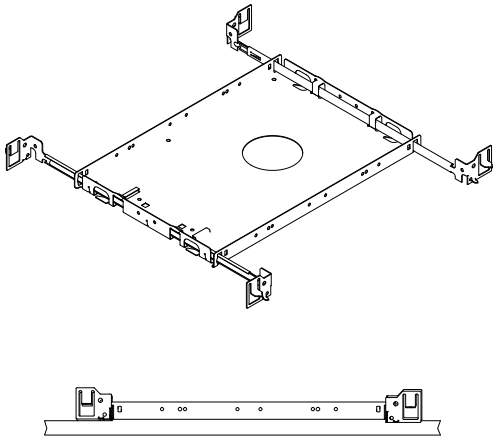
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-3/4"	2-5/8"
TRIMLESS	3/8" to 2"	2-5/8"
MILLWORK (TRIMLESS)	3/8" to 2"	2-5/16"

PLENUM HEIGHT



NEW CONSTRUCTION - NC



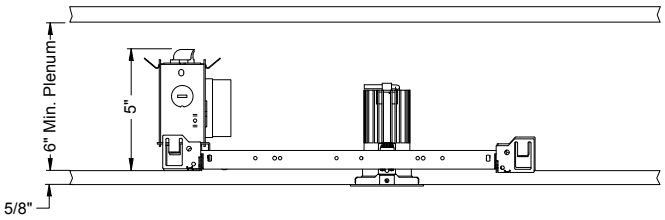


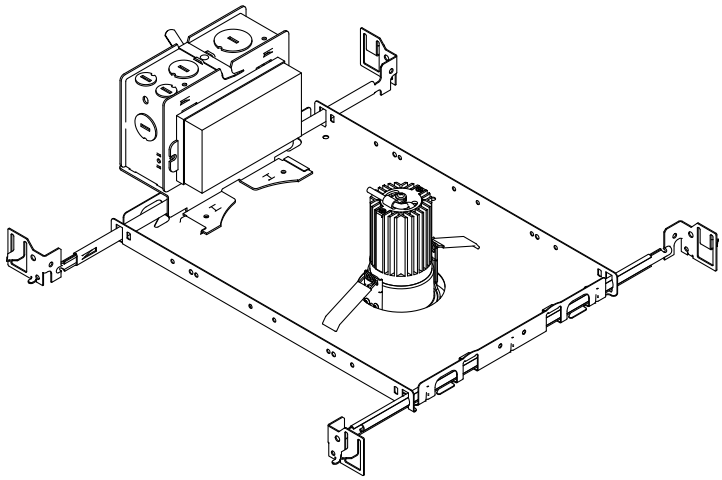
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

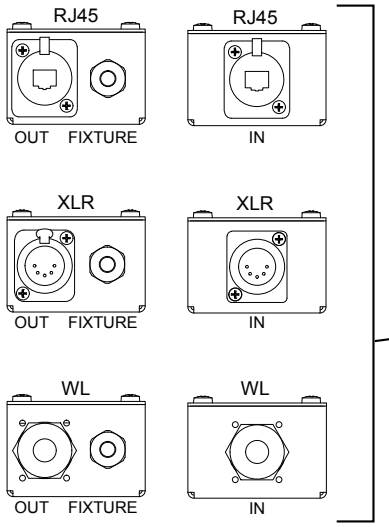
MOUNTING OPTIONS

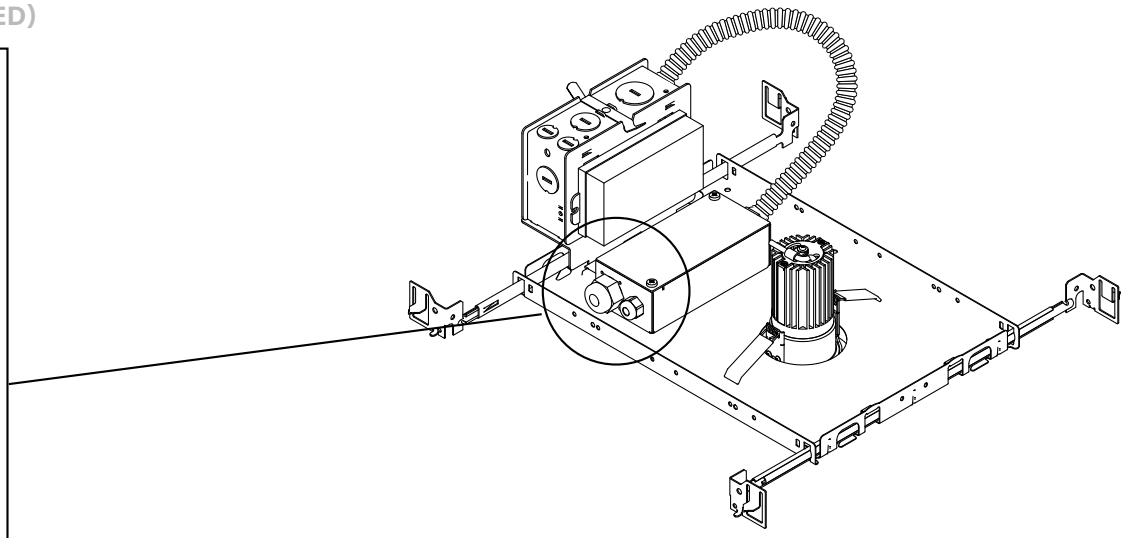
10LM-12LM (DIM10Z / DALIZ-DT6 / DALIZ-DT8) - FIXED
(ABOVE CEILING ACCESS REQUIRED)





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



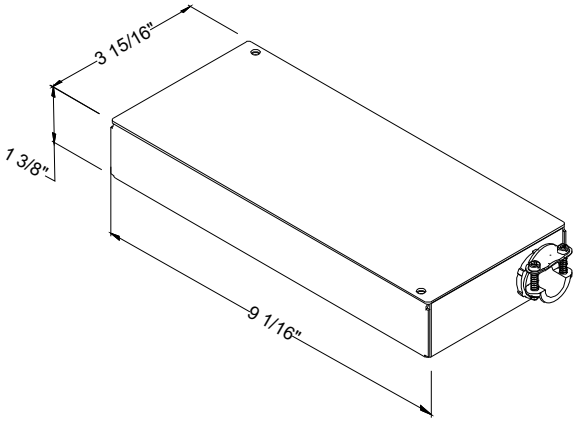


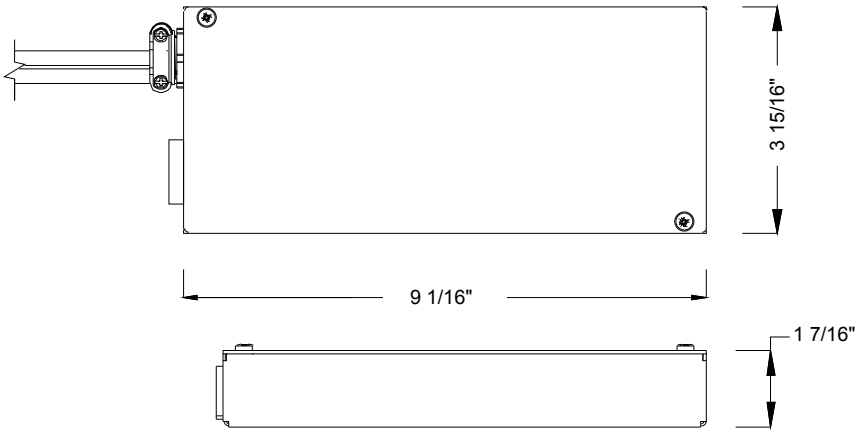
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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.

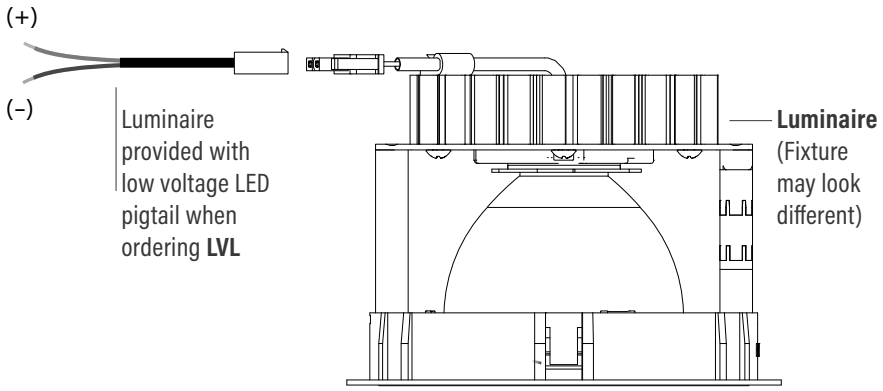
LOW VOLTAGE OPTIONS

25° - 60° BEAM (Note: Specifications are subject to change without notice)			
9mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	960LM @35K/95CRI	200mA	9W
12LM	1280LM @35K/95CRI	300mA	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	680LM @35K/95CRI	175mA	6.5W
Notes	Delivered lumens based on 20D optic with no lens, (see page 2)		

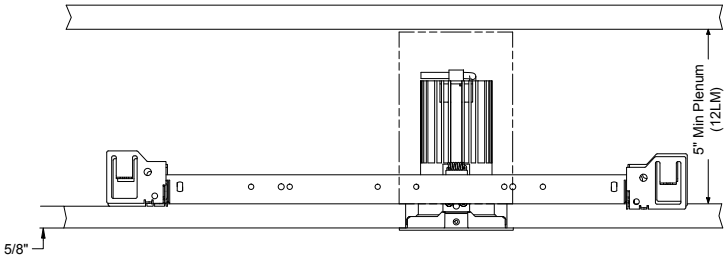
NOMINAL LED VOLTAGE: 36VDC

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

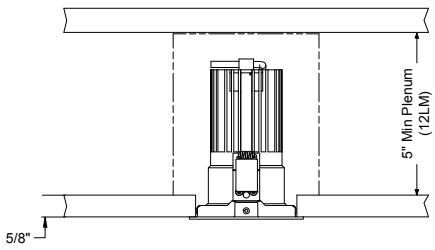


PLENUM HEIGHT

(NC-LVL) NEW CONSTRUCTION REMOTE DX PANEL



(RET-LVL) REMOTE DX PANEL RETRO

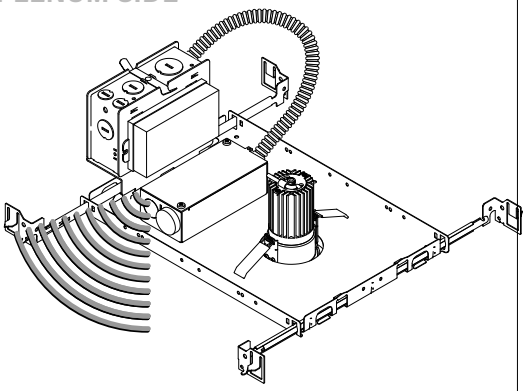


Ref. DX panel specification sheet for remote driver options.

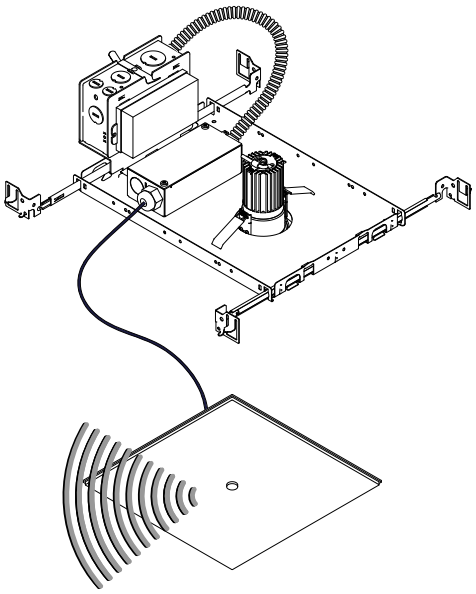
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

WIRELESS OPTIONS

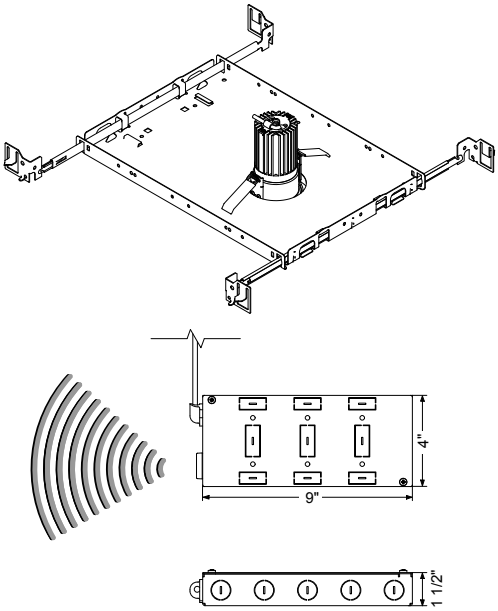
NC - NEW CONSTRUCTION
PLENUM SIDE



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 - RD - TW - 12LM - 3018 - 90 - 35D - NA - CL - WH - WH - NC- UNV - AWND
NU2 - RD - TW - 12LM - 3018 - 90 - 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