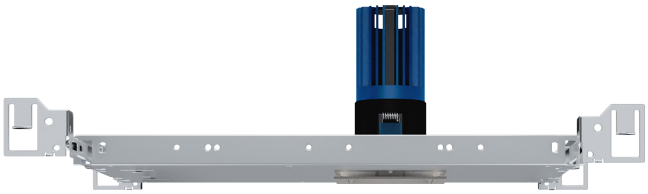
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU2

2" Square 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	870LM @35K/95CRI	12W
12LM	1160LM @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

- 1/2" bezel regress with 3/8" micro flange
- UGR < 14
- 86 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" x 2-5/8"
  Trimless - 2-5/8" x 2-5/8"
  Millwork - 2-5/16" x 2-5/16"

LED

- Luminus Dim-to-warm COB: 90 CRI: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L_{70} > 54,000 hrs

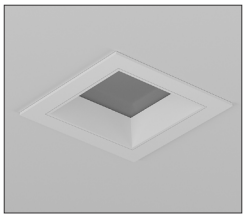
LISTING

- 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

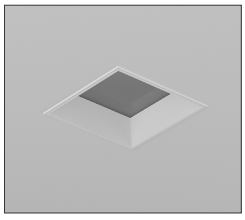
ELECTRICAL

- 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

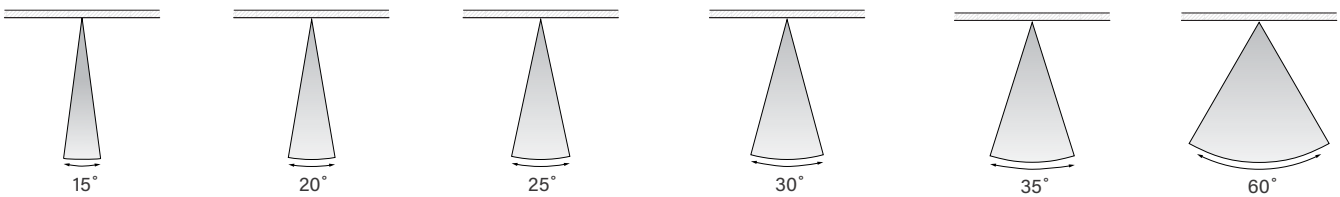


Trimless



Trimless Millwork

BEAM SPREADS



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE			
SERIES	NU2	NU2	
TYPE	SD	square downlight	
	SDT	square downlight trimless	
	SDTMW	square downlight trimless millwork	
LED	TW	tunable white (Luminus)	
DELIVERED LUMENS	10LM	870 lm, 650 lm (15D/20D)	
	12LM	1160 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	
	2765	2700K to 6500K tunable white	
CRI	95	95 CRI	
OPTIC & LM MULTIPLIER	15D	15 degrees	(1.00)
	20D	20 degrees	(1.00)
	25D	25 degrees	(0.96)
	30D	30 degrees	(0.97)
	35D	35 degrees	(1.00)
	60D	60 degrees	(0.86)
BEZEL LENS	NL	no lens	(1.00)
	CL	clear lens	(0.93)
	DL	diffused lens	(0.89)
	E[1]	elliptical beam spread	(0.86)
	HCL	honeycomb louver	(0.72)
	HET	high efficiency textured lens, similar to Solite™	(0.91)
	SBL	smoothing beam lens	(0.92)
	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 - SD - TW - 10LM - 2765 - 95 - 35D - NA - CL - WH - WH - NC - UNV - DIM10Z

NOTES

1. Elliptical lens not available with 15D/25D 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

CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
15D	18	<10
20D	21	<10
25D	23	<10
30D	26	11.9
35D	37	12
60D	59	13.6

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	59	13.4

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
15D	22	<10
20D	24	<10
25D	25	10.4
30D	27	12.2
35D	37	12.7
60D	55	15.4

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
25D	37	15.3
30D	39	16.6
35D	45	16.8
60D	59	20.4

E
Elliptical Lens



OPTIC	BEAM ANGLE	UGR
25D	38x60	16x20
30D	39x61	17x21
35D	45x66	17x22
60D	59x76	20x24

SBL
Smoothing Beam Lens



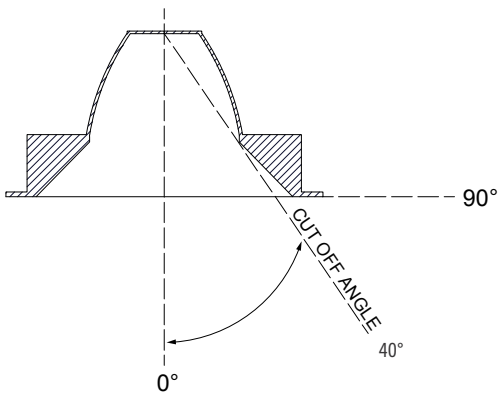
OPTIC	BEAM ANGLE	UGR
15D	19	<10
20D	22	<10
25D	23	<10
30D	26	11.8
35D	37	12.2
60D	56	14.4

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;



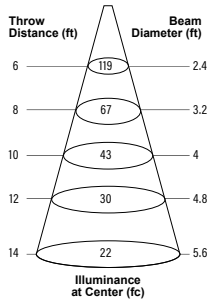
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

10LM

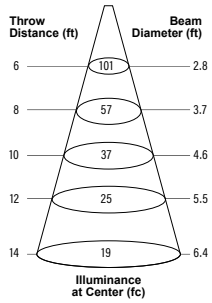
25D 23° NO LENS



WATTS: 12.4	LPW: 67.4
LUMENS: 836	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	4276
5	3873
15	1258
25	240
35	33
45	8

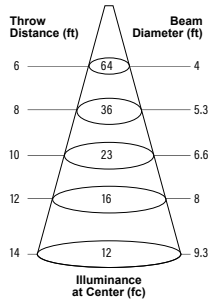
30D 26° NO LENS



WATTS: 12.4	LPW: 67.7
LUMENS: 840	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	3653
5	3363
15	1351
25	264
35	42
45	9

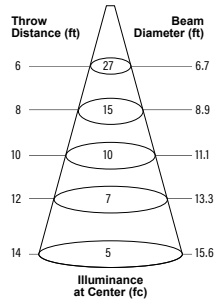
35D 37° NO LENS



WATTS: 12.4	LPW: 70.4
LUMENS: 872	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	2312
5	2220
15	1493
25	488
35	37
45	7

60D 58° NO LENS

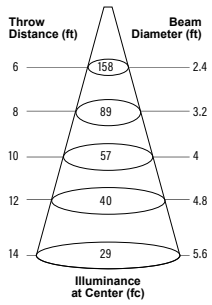


WATTS: 12.4	LPW: 63.8
LUMENS: 791	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	970
5	963
15	876
25	638
35	214
45	20

12LM

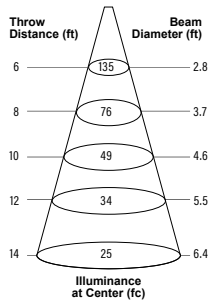
25D 23° NO LENS



WATTS: 16.4	LPW: 67.9
LUMENS: 1114	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	5702
5	5163
15	1677
25	319
35	44
45	11

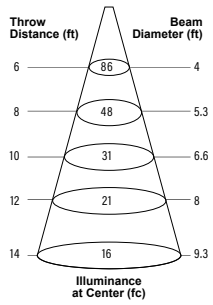
30D 26° NO LENS



WATTS: 16.4	LPW: 68.3
LUMENS: 1120	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	4870
5	4483
15	1801
25	352
35	56
45	11

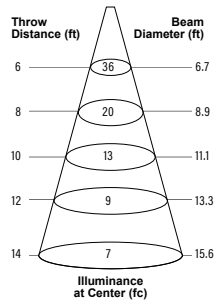
35D 37° NO LENS



WATTS: 16.4	LPW: 70.9
LUMENS: 1163	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	3083
5	2961
15	1991
25	650
35	50
45	10

60D 58° NO LENS



WATTS: 16.4	LPW: 64.3
LUMENS: 1055	CCT: 3500K

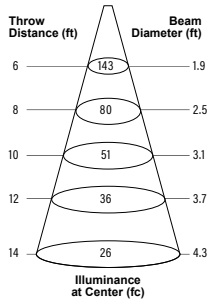
INTENSITY	
DEGREE	CANDELA
0	1293
5	1284
15	1168
25	850
35	285
45	26

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

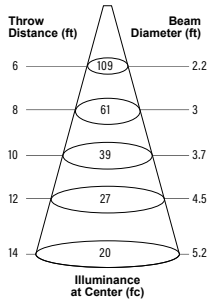
10LM

15D
17° NO LENS



WATTS: 8.9	LPW: 72.5
LUMENS: 645	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	5140
5	4240
15	730
25	98
35	30
45	17

20D
21° NO LENS



WATTS: 8.9	LPW: 73.1
LUMENS: 650	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	3934
5	3361
15	885
25	124
35	34
45	18

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			

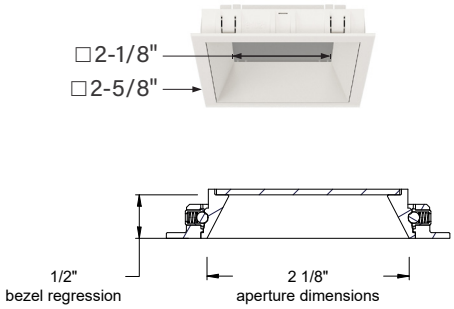
TRIM OPTIONS

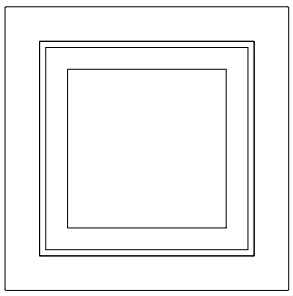
TRIM/BEZEL COLORS



WH MC BK BZ CC

TRIMMED

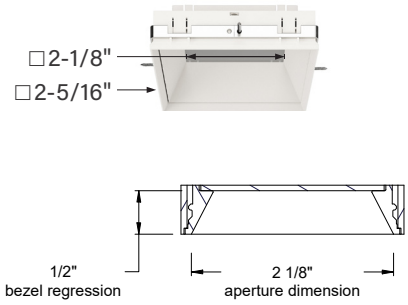


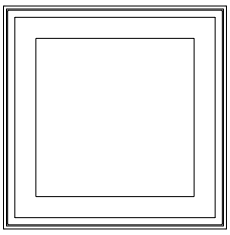


ceiling cutout
2-5/8" square

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

MILLWORK

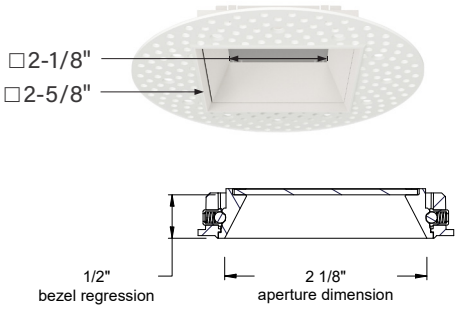


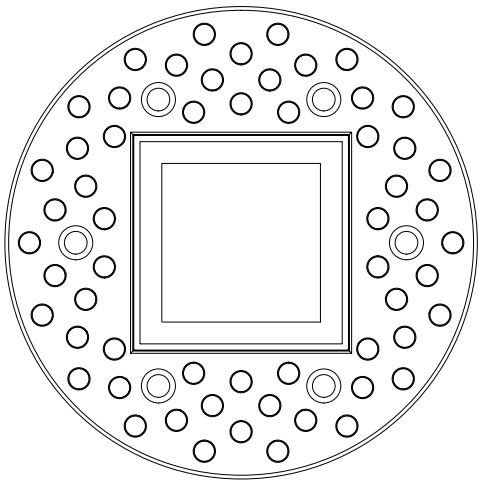


ceiling cutout
2-5/16" square

ceiling thickness
3/8" to 2"

TRIMLESS





ceiling cutout
2-5/8" square

ceiling thickness
3/8" to 2"

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.

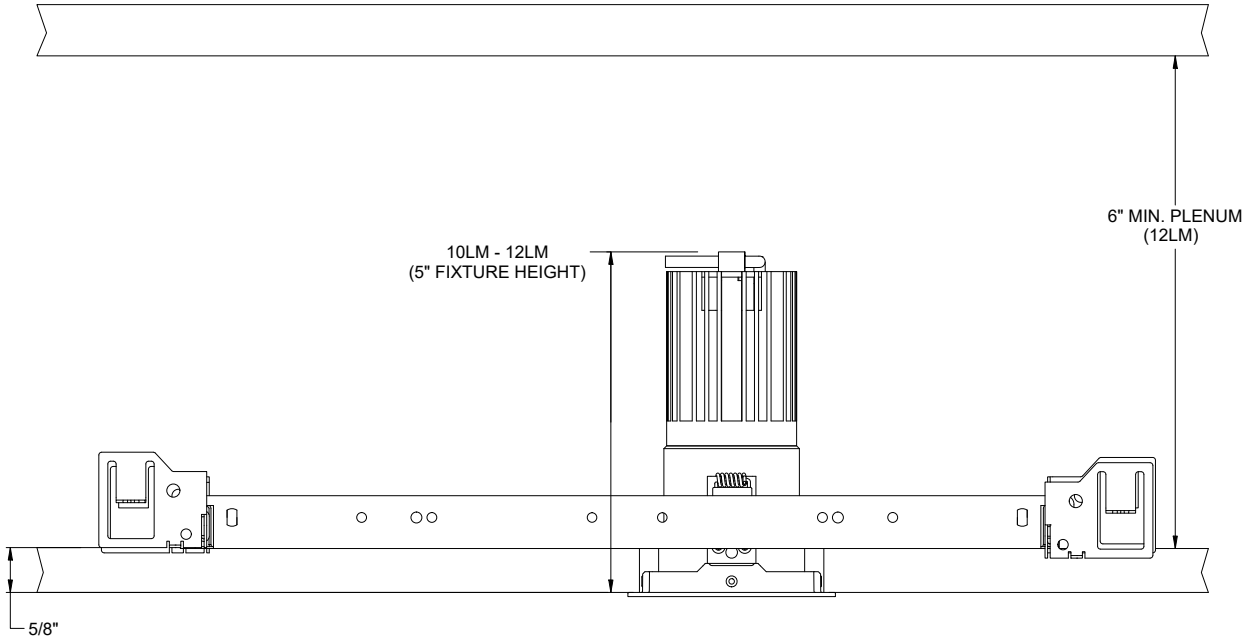
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

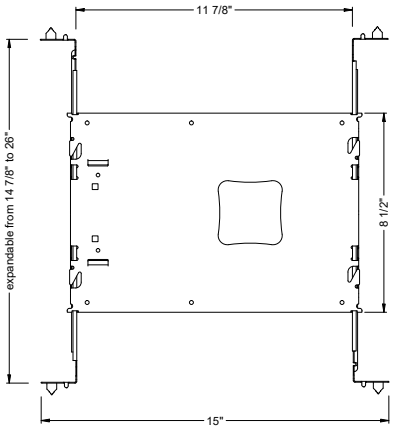
RATINGS / CERTIFICATIONS	NC	RET
TYPE NON-IC	✔	✔
TYPE IC		
CHICAGO PLENUM (CCEA)		
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283		

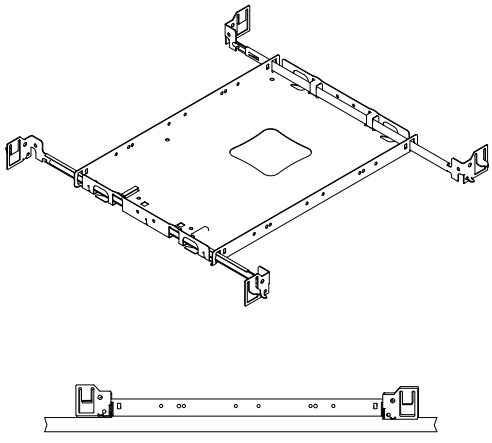
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-3/4"	2-5/8"
TRIMLESS	3/8" to 2"	2-5/8"
MILLWORK (TRIMLESS)	3/8" to 2"	2-5/16"

PLENUM HEIGHT



NEW CONSTRUCTION - NC



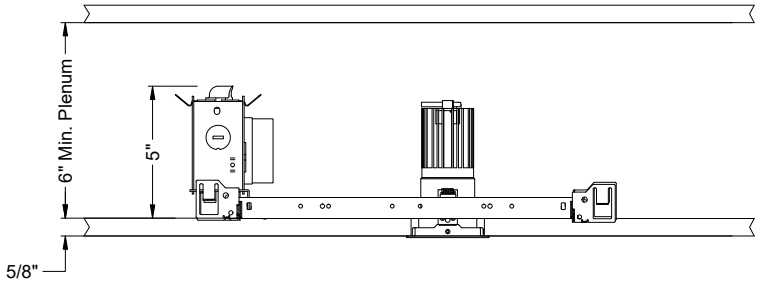


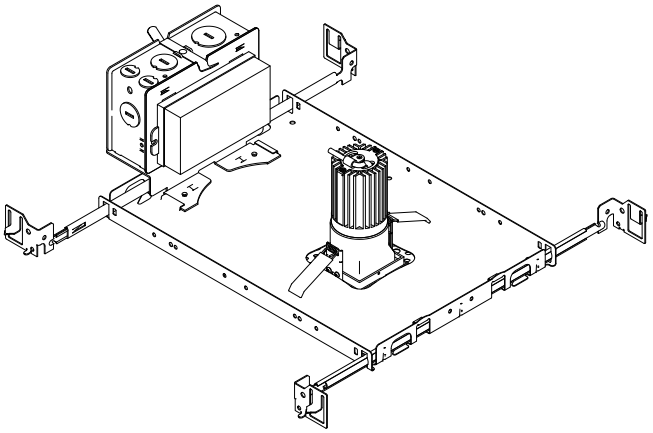
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

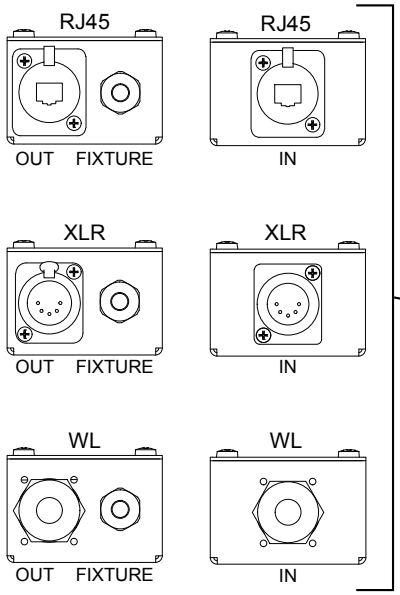
MOUNTING OPTIONS

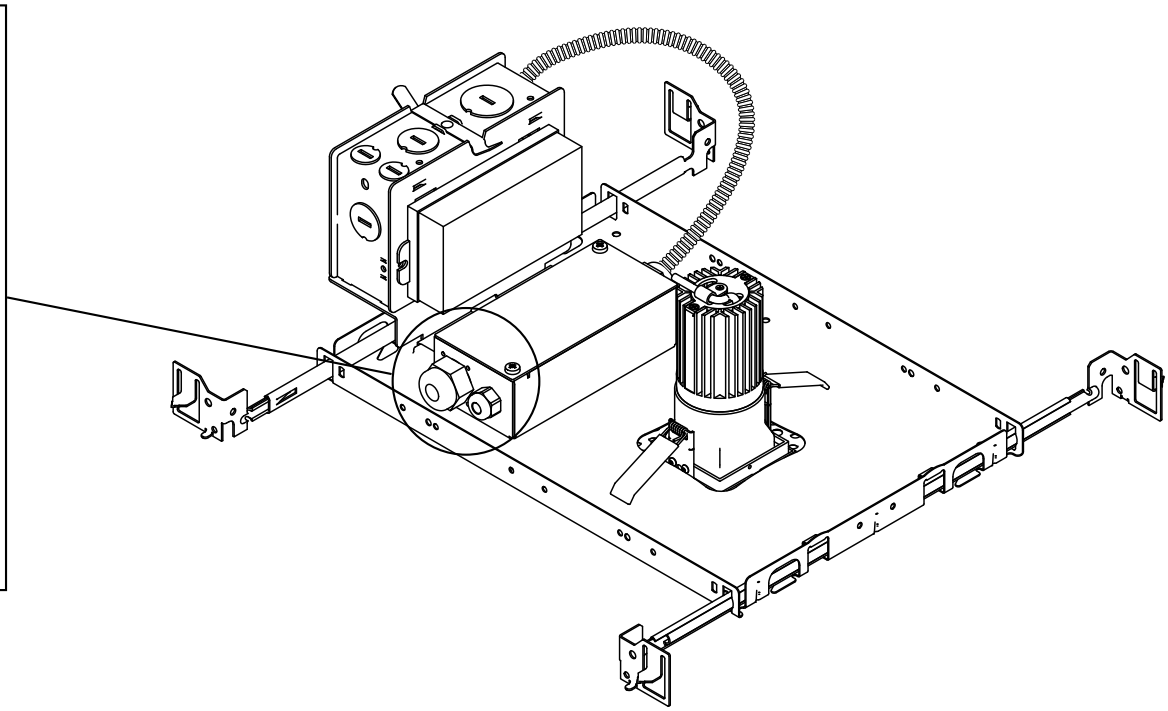
10LM-12LM (DIM10Z / DALIZ-DT6 / DALIZ-DT8) - FIXED
(ABOVE CEILING ACCESS REQUIRED)





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



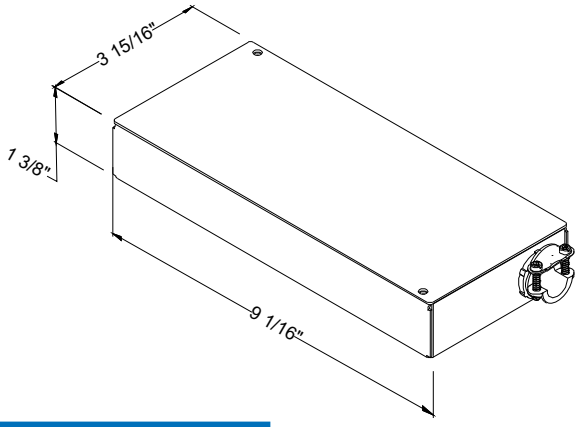


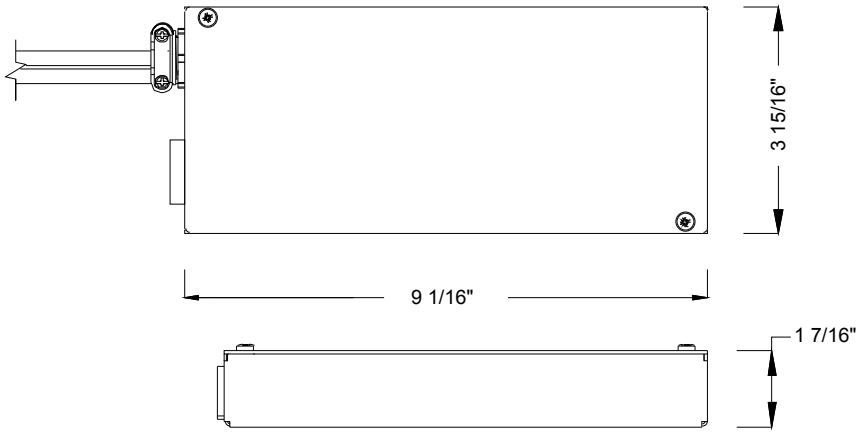
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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.

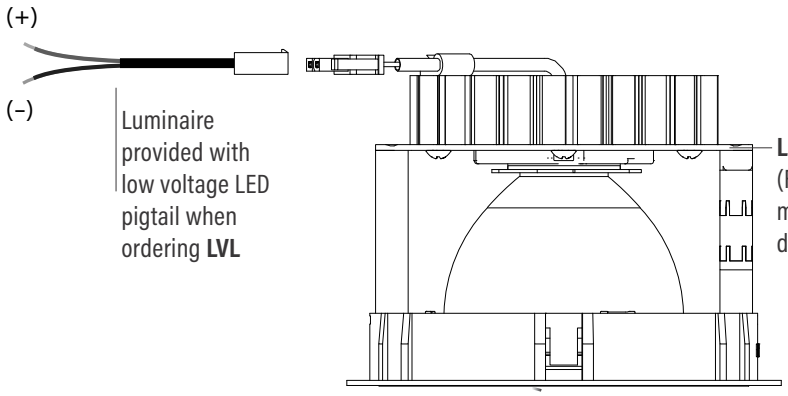
LOW VOLTAGE OPTIONS

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	870LM @35K/95CRI	200mA	9W
12LM	1160LM @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	650LM @35K/95CRI	175mA	6.5W
Notes	Delivered lumens based on 20D optic with no lens, (see page 2)		

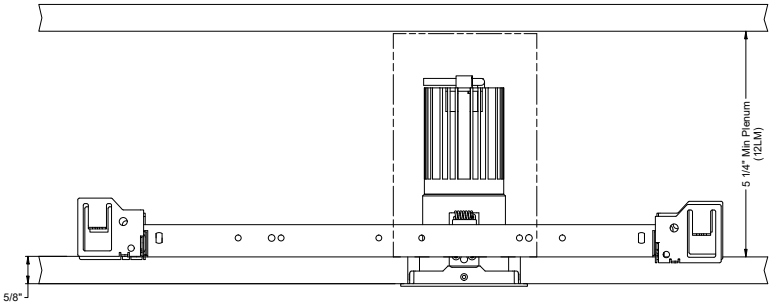
NOMINAL LED VOLTAGE: 36VDC

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

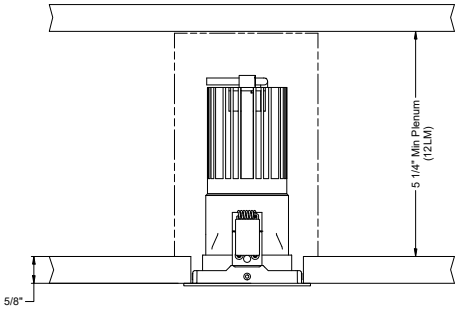


PLENUM HEIGHT

(NC-LVL) NEW CONSTRUCTION REMOTE DX PANEL



(RET-LVL) REMOTE DX PANEL RETRO



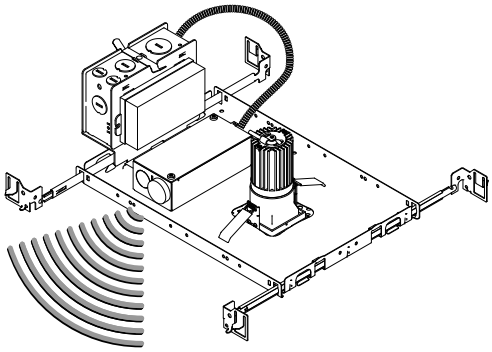
**Ref. DX panel specification sheet for remote driver options.*

alphabet

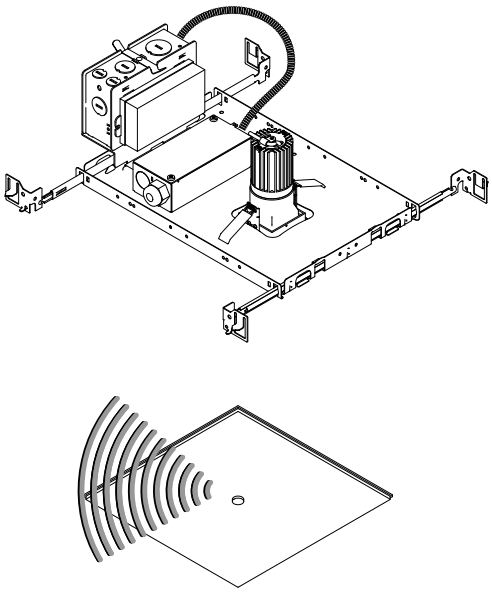
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

WIRELESS OPTIONS

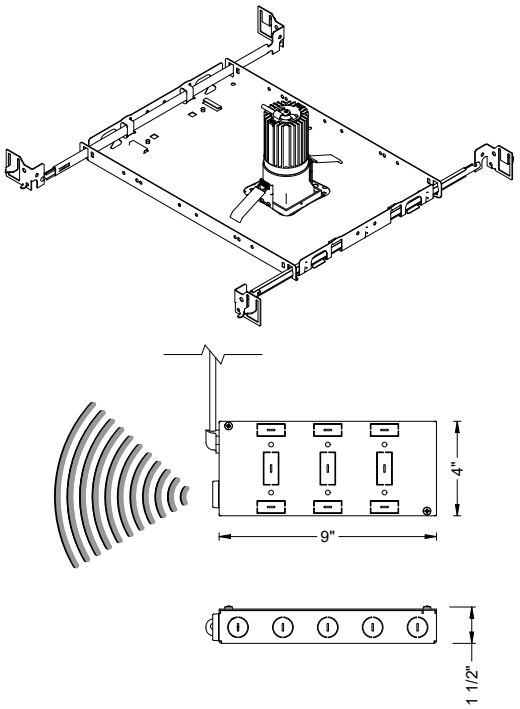
NC - NEW CONSTRUCTION - FIXED
PLENUM SIDE



NC - NEW CONSTRUCTION - FIXED
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 - SD - TW - 12LM - 3018 - 90 - 35D - NA - CL - WH - WH - NC - UNV - AWND
NU2 - SD - TW - 12LM - 3018 - 90 - 35D - NA - CL - WH - WH - RET - 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