alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU2

2" Round Adjustable Tuneable White

NSF · AT airtight · PR plenum rated · wet rated · BABA•BAA

25° - 50° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
05LM	550LM @35K/95CRI	7W
10LM	1090LM @35K/95CRI	15W
Notes	Delivered lumens based on 30° optic with no lens, (see page 2)	

20° BEAM (Note: Specifications are subject to change without notice)		
6mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
05LM	570LM @35K/95CRI	9W
Notes	Delivered lumens based on 20° optic with no lens, (see page 2)	



FEATURES

- True 40° Tilt with <20% beam disruption (clipping)
- Zero ceiling line obstruction at Full Tilt
- Full, 360° rotation
- UGR < 17
- 84 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 1-3/4"
- **CUTOUT DIMENSION:**
  Trim - 2-3/4"
  Trimless - 2-3/4"
  Millwork - 2-5/8"

LED

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

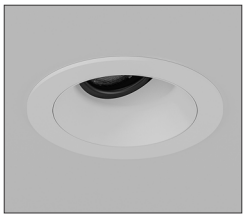
LISTING

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

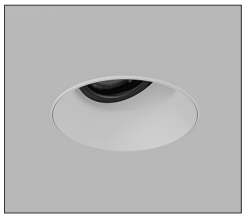
ELECTRICAL

- 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

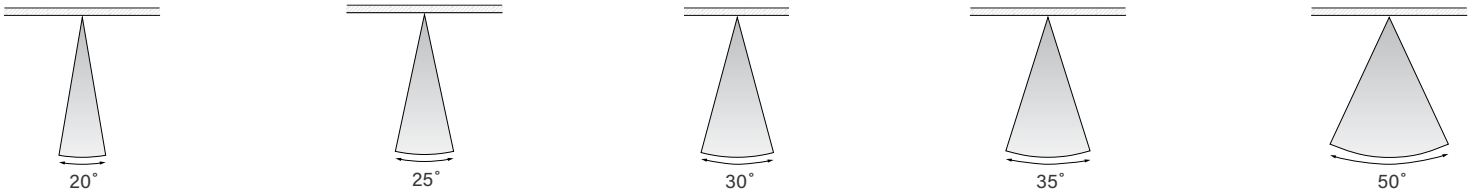


Trimless



Trimless Millwork

BEAM SPREADS



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU2**	NU2	
TYPE	**RA**	round adjustable	
	RAT	round adjustable trimless	
	RATMW	round adjustable trimless millwork	
LED	**TW**	tunable white (Luminus)- halogen	
DELIVERED LUMENS	**05LM**	550 LM	
	10LM	1090 lm	
	Standard Configuration: 3500K 95CRI 35D, **NL**		
	Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Optic Multiplier] x [Lens Multiplier]		
CCT	**1840**	1800K to 4000K tunable white	
	2765	2700K to 6500K tunable white	
CRI	**90**	90 CRI	
OPTIC & LM MULTIPLIER	**20D**[1]	20 degrees	(1.00)
	25D	25 degrees	(0.98)
	30D	30 degrees	(1.00)
	35D	35 degrees	(0.97)
	50D	50 degrees	(0.90)
ACCESSORY	**NA**	no accessory	(1.00)
	DLA	diffused lens	(0.83)
	HCL	honeycomb louver	(0.67)
	HETA	high efficiency textured lens, similar to Solite™	(0.93)
	SBLA	smoothing beam lens	(0.95)
	EA[2]	elliptical lens	(0.85)
	Maximum 2pcs of media per fixture.		
BEZEL LENS	**NL**[3]	no lens	(1.00)
	CL	clear lens	(0.91)
	DL	diffused lens	(0.79)
	E[2]	elliptical beam spread	(0.79)
	HET	high efficiency textured lens, similar to Solite™	(0.80)
	SBL	smoothing beam lens	(0.80)
TRIM COLOR	**BK**	black	
	WH	white	
	MC	matte chrome	
	BZ	bronze	
	CC[4]	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[4]	custom color, consult factory for details	
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.		
CEILING OPTIONS	**SC**	1/8" to 5/8" ceiling thickness	
	TC	1/8" to 1" ceiling thickness	
	TC2	5/8" to 1-3/4" ceiling thickness	
	Not applicable to trimless option. Do not include in trimless ordering code.		

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

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

ORDERING CODE

MOUNTING OPTIONS	**NC**	new construction plate
	RET[5]	retrofit, no ceiling plate
VOLTAGE	**UNV**[6]	120V-277V
	LVL[7]	low voltage luminaire
DIMMING	**DIM10Z**[8]	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
	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 - RA - TW - 10LM - 2765 - 95 - 35D - NA - CL - WH - WH - SC - NC - UNV - DIM10Z

NOTES

1. 20D available in 05LM.
2. Elliptical lens not available with 20D optic options.
3. NL option does not meet requirements for AT/WET/NSF listings.
4. Custom set up fee plus minimum quantity required per color.
5. RET available in LVL option only.
6. Requires above ceiling access.
7. Must select DX dimming with LVL.
8. 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
- UGR calculation based on 10LM fixtures, unless otherwise noted.

HCL-NL
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
20D	19	<10
25D	25	<10
30D	29	<10
35D	31	<10

DLA-NL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
25D	38	15.3
30D	42	15
35D	45	15.5
50D	53	17.8

HETA-NL
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D	23	<10
25D	28	12.2
30D	33	10.2
35D	38	12.3

SBLA-NL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
20D	21	<10
25D	27	<10
30D	32	<10
35D	37	10.5

NA-NL
No Lens



OPTIC	BEAM ANGLE	UGR
20D	20	<10
25D	25	<10
30D	30	<10
35D	36	<10

EA-NL
Elliptical Lens



OPTIC	BEAM ANGLE	UGR
25D	39x54	17x18
30D	42x58	16x18
35D	45x61	17x18
50D	53x66	18x20

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 10LM fixtures, unless otherwise noted.

NA-NL
No Lens



OPTIC	BEAM ANGLE	UGR
20D	20	<10
25D	25	<10
30D	30	<10
35D	36	<10

NA-HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D	23	<10
25D	26	14.3
30D	31	12.6
35D	34	14.2

NA-CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
20D	20	<10
25D	25	<10
30D	30	<10
35D	36	<10

NA-SBL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
20D	20	<10
25D	25	14.3
30D	30	11.9
35D	34	13.9

NA-DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
25D	37	17.1
30D	40	17.1
35D	43	17.7
50D	50	20.6

NA-E
Elliptical Lens



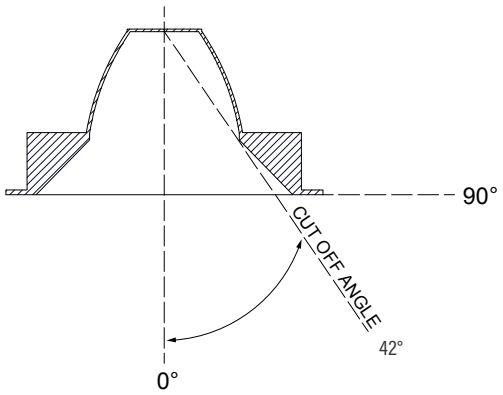
OPTIC	BEAM ANGLE	UGR
25D	37x63	18x21
30D	40x66	17x22
35D	43x67	17x23
50D	50x75	21x26

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 42° degrees;



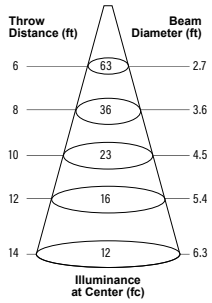
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

05LM

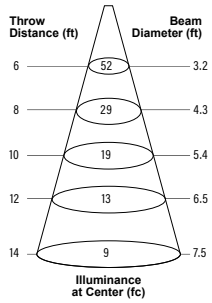
25D 25° WITH NO LENS



WATTS: 7	LPW: 77.1
LUMENS: 540	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	2280
5	2143
15	790
25	174
35	38
45	10

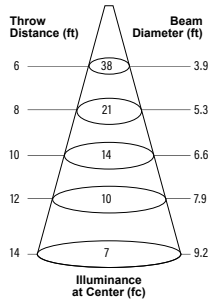
30D 30° WITH NO LENS



WATTS: 7	LPW: 78.3
LUMENS: 548	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	1855
5	1717
15	933
25	213
35	40
45	9

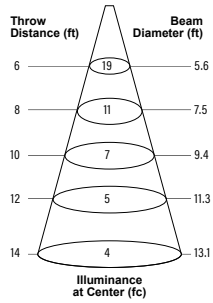
35D 36° WITH NO LENS



WATTS: 7	LPW: 76.8
LUMENS: 537	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	1371
5	1303
15	875
25	290
35	40
45	10

50D 50° WITH NO LENS

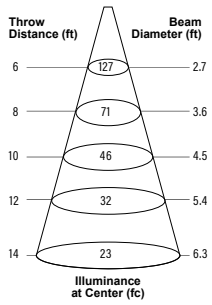


WATTS: 7	LPW: 70.6
LUMENS: 494	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	702
5	693
15	595
25	354
35	111
45	17

10LM

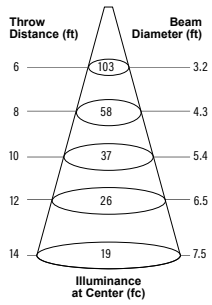
25D 25° WITH NO LENS



WATTS: 14.8	LPW: 73
LUMENS: 1080	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	4561
5	4286
15	1581
25	348
35	76
45	21

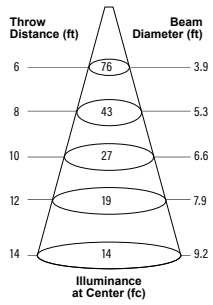
30D 30° WITH NO LENS



WATTS: 14.8	LPW: 74
LUMENS: 1096	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	3710
5	3435
15	1867
25	425
35	79
45	17

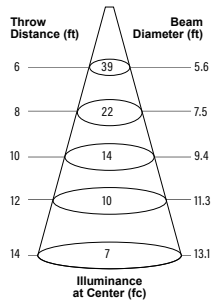
35D 36° WITH NO LENS



WATTS: 14.8	LPW: 72.6
LUMENS: 1075	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	2741
5	2606
15	1751
25	580
35	80
45	19

50D 50° WITH NO LENS



WATTS: 14.8	LPW: 66.8
LUMENS: 989	CCT: 3500K

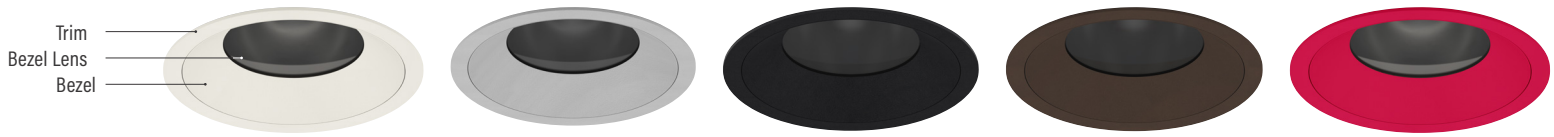
INTENSITY	
DEGREE	CANDELA
0	1403
5	1387
15	1191
25	708
35	222
45	34

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

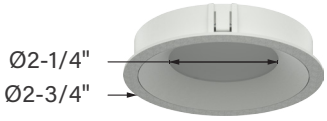
TRIM OPTIONS

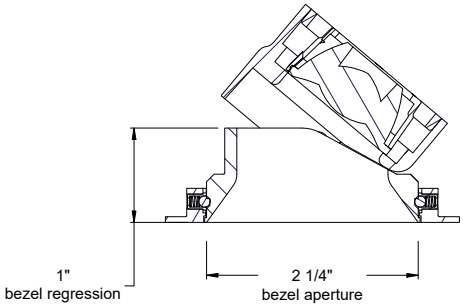
TRIM/BEZEL COLORS

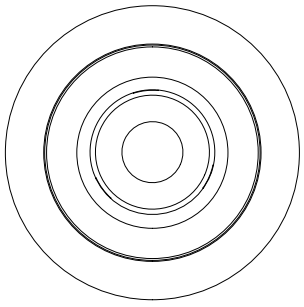


WH MC BK BZ CC

TRIMMED



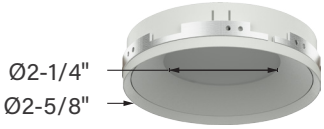


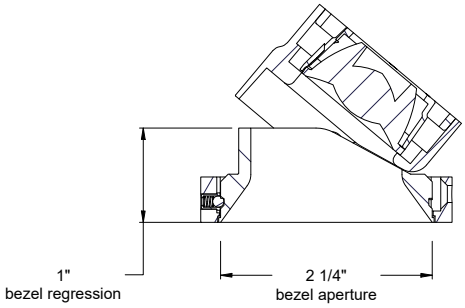


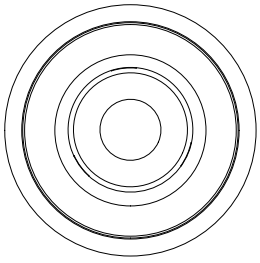
ceiling cutout
2-3/4" diameter

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

MILLWORK



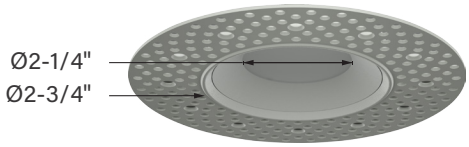


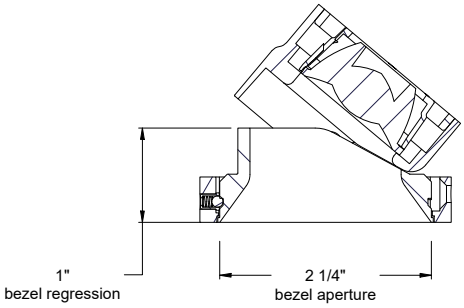


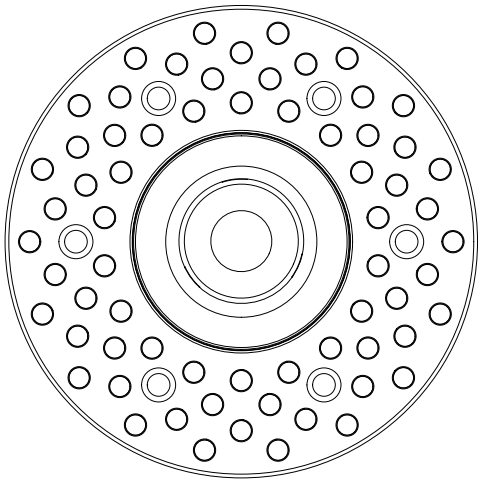
ceiling cutout
2-5/8" diameter

ceiling thickness
1/8" to 2"

TRIMLESS







ceiling cutout
2-3/4" diameter

ceiling thickness
1/8" to 2"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

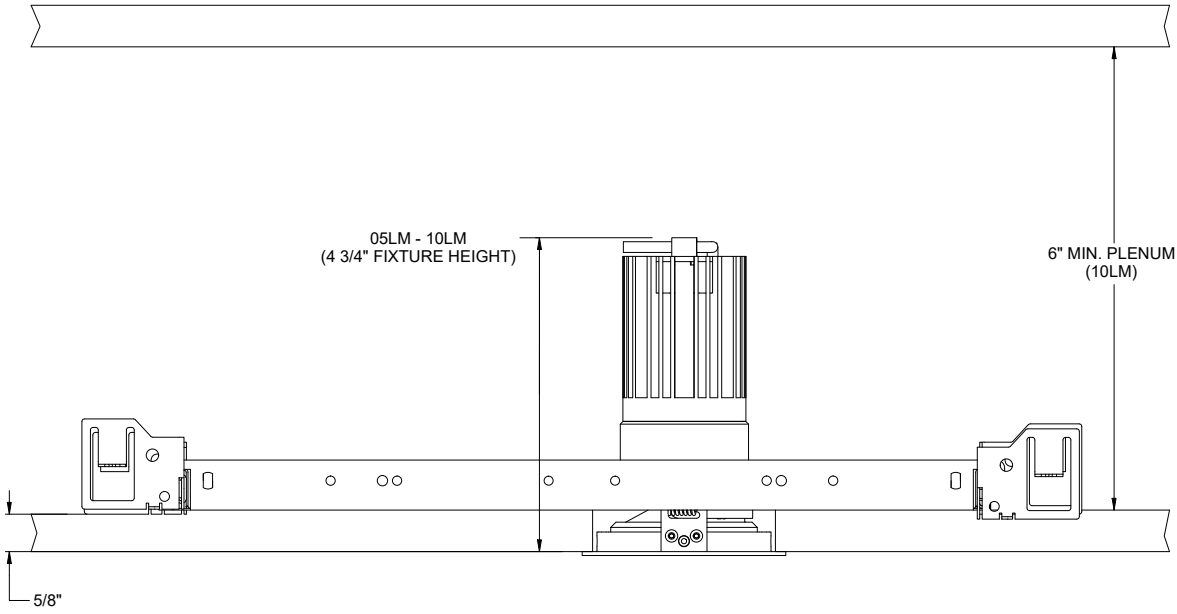
MOUNTING OPTIONS

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

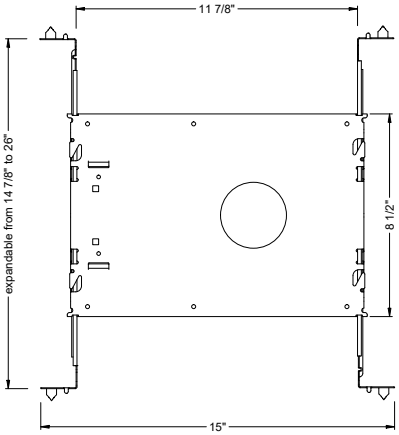
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-3/4"	2-3/4"
TRIMLESS	3/8" to 2"	2-3/4"
MILLWORK (TRIMLESS)	1/2" to 2"	2-5/8"

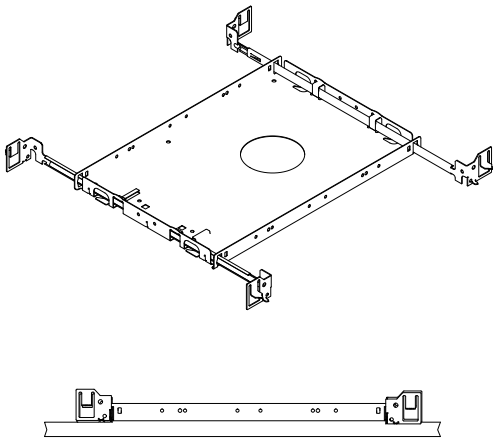
CEILING THICKNESS	TILT
1/8" to 3/4"	40°
1"	30°
1-1/2"	20°
2"	10°

PLENUM HEIGHT



NEW CONSTRUCTION - NC



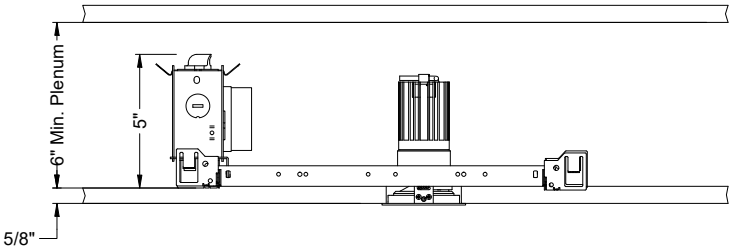


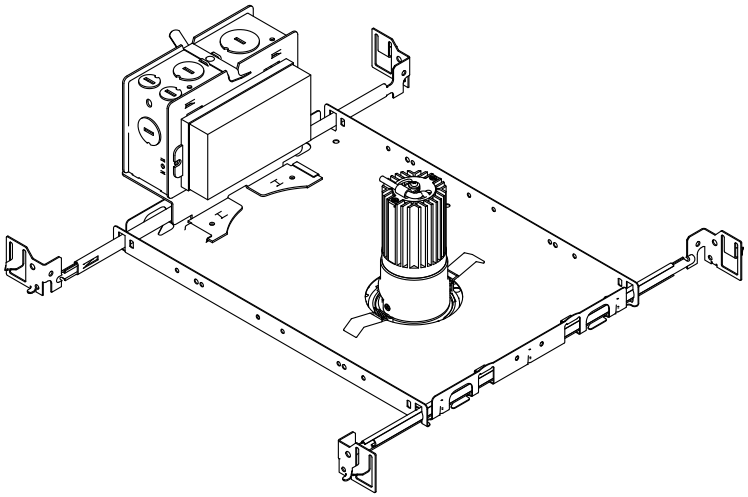
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

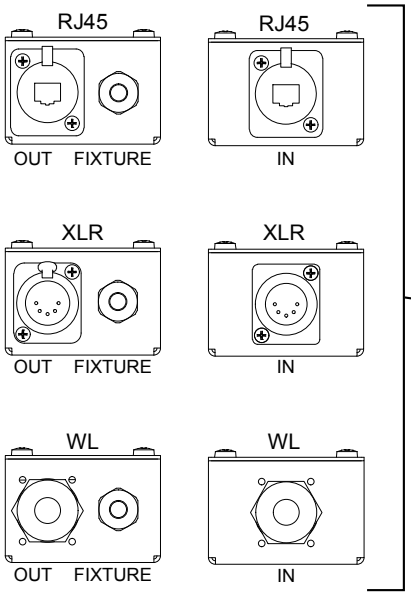
MOUNTING OPTIONS

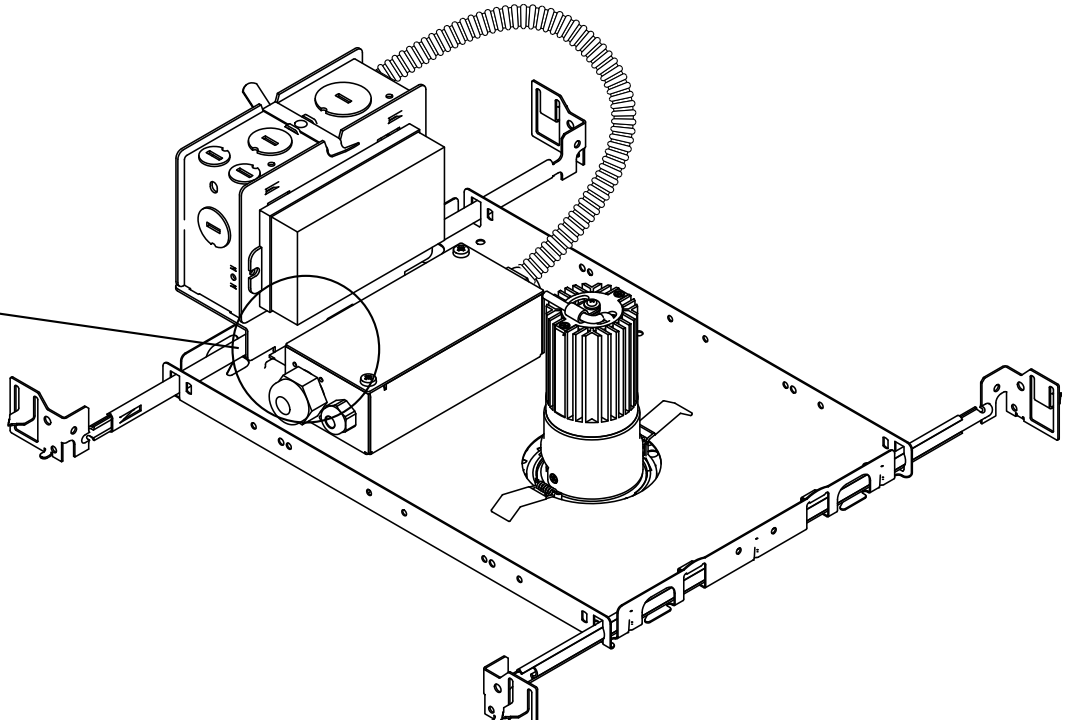
05LM-10LM (DIM10Z / DALIZ-DT6 / DALIZ-DT8) - FIXED
(ABOVE CEILING ACCESS REQUIRED)





05LM-10LM (DMX-WL / DMX-XLR / DMXZ-RJ45) - FIXED
(ABOVE CEILING ACCESS REQUIRED)



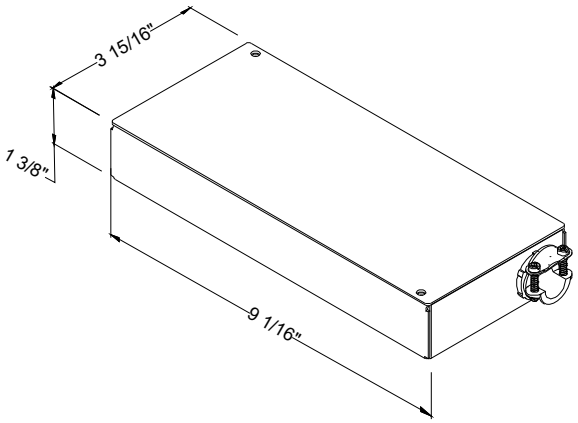


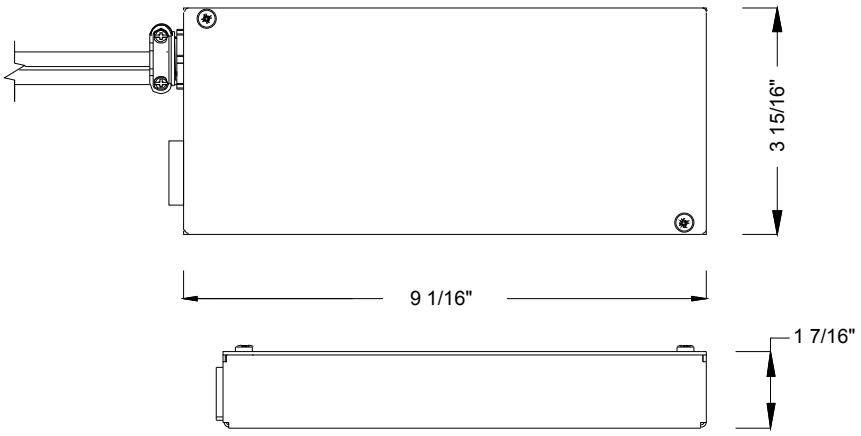
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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.

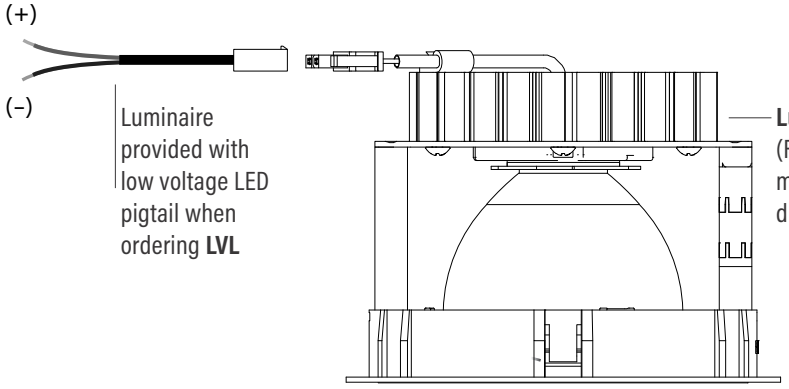
LOW VOLTAGE OPTIONS

25° - 50° BEAM (Note: Specifications are subject to change without notice)			
9mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
05LM	550LM @35K/95CRI	175mA	6.5W
10LM	1090LM @35K/95CRI	350mA	13W
Notes	Delivered lumens based on 30° optic with no lens, (see page 2)		

20° BEAM (Note: Specifications are subject to change without notice)			
6mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
05LM	570LM @35K/95CRI	175mA	6.5W
Notes	Delivered lumens based on 20° optic with no lens, (see page 2)		

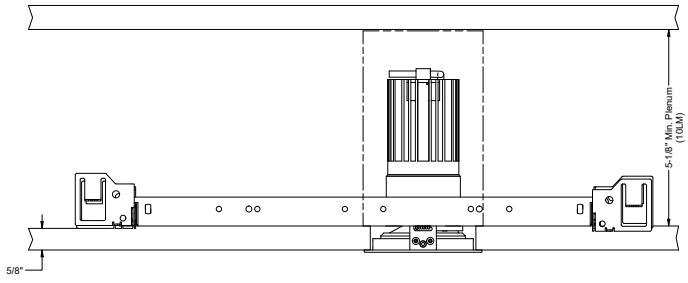
NOMINAL LED VOLTAGE: 36VDC

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

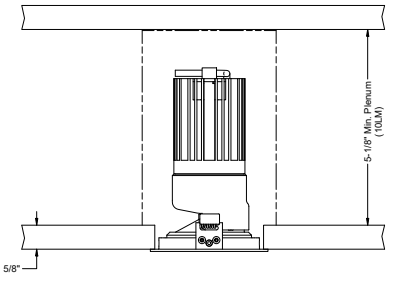


PLENUM HEIGHT

(NC-LVL) NEW CONSTRUCTION REMOTE DX PANEL



(RET-LVL) REMOTE DX PANEL RETRO



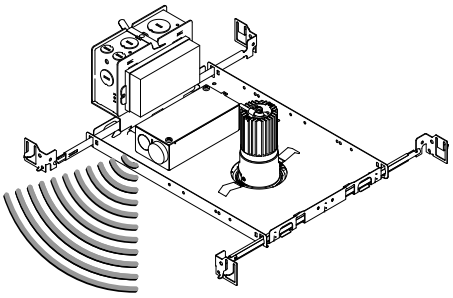
Ref. DX panel specification sheet for remote driver options.

alphabet

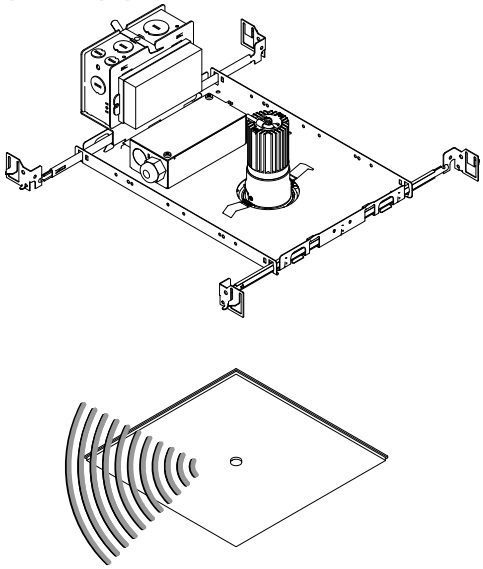
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

WIRELESS OPTIONS

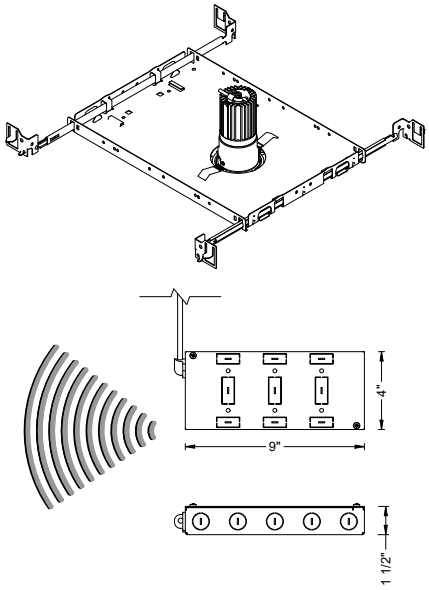
NC - NEW CONSTRUCTION - FIXED
PLENUM SIDE



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 - RA - TW - 10LM - 2765 - 95 - 35D - NA - CL - WH - WH - SC - NC - UNV - AWND
NU2 - RA - TW - 10LM - 2765 - 95 - 35D - NA - CL - WH - WH - SC - 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
CLMD-DX .. connected lighting module (DALI2 Driver) - remote DX Compact Driver
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