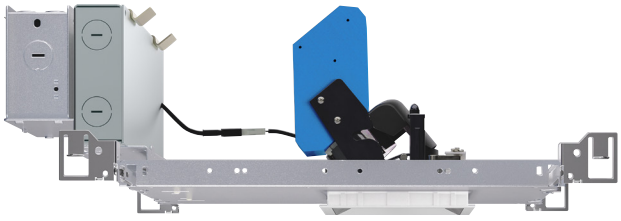
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU4

4" Toolless Square Adjustable Tunable White

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



30° -100° BEAM (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	1030LM @35K/95CRI	15W
15LM	1520LM @35K/95CRI	21W
20LM	1990LM @35K/95CRI	28W
Notes	Delivered lumens based on 40D optic with SBLA lens, (see page 2)	

20° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	1030LM @35K/95CRI	16W
Notes	Delivered lumens based on 20D optic with SBLA lens, (see page 2)	

FEATURES

- True 45° Tilt with <15% beam disruption (clipping)
- Unlimited continuous 360° rotation
- Toolless operation (mounting, tilt, rotation)
- Concentric Tilt Tracking ensures minimal light loss
- Zero ceiling line obstruction at Full Tilt
- UGR <5
- Glare control, specialty optics, trim options, and custom finishes available
- Microban® antimicrobial finish available on all exposed painted surfaces

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 11)

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 Standard 1/8" to 1-1/4" and Thick Ceiling 1-1/4" to 1 7/8"
- **CUTOUT DIMENSION:**
  Trimmed - 4 1/4" x 4 1/4"
  Millwork - 4 1/4" x 4 1/4"
  Trimless - 4 1/2" x 4 1/2"

LED

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

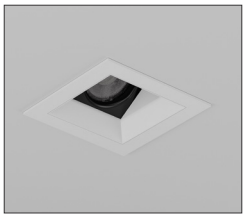
LISTING

- 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

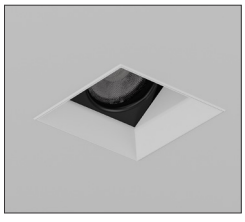
ELECTRICAL

- 120V-277V
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Max. ambient installation temperature 95°F (35°C)
- Low Voltage Luminaire option, see page 10.

TRIM OPTIONS



Trimmed

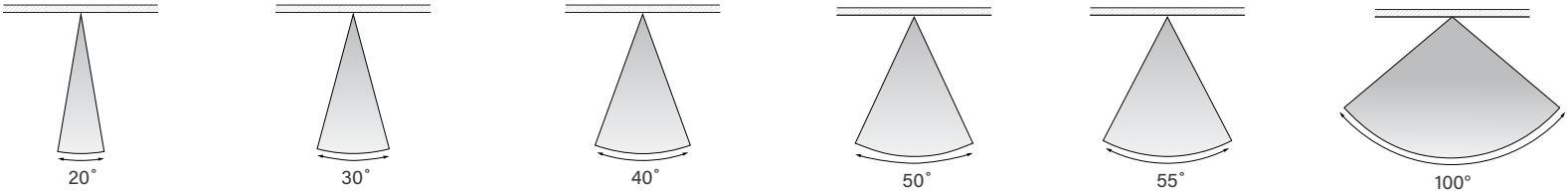


Trimless



Trimless Millwork

BEAM SPREADS



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU4**	NU4	
TYPE	**TSA**	toolless square adjustable	
	TSAT	toolless square adjustable trimless	
	TSATMW	toolless square adjustable trimless millwork	
LED	**TW**	tunable white (Luminus)	
DELIVERED LUMENS	**10LM**	1030 lm	
	15LM	1520 lm	
	20LM	1990 lm	
	Standard Configuration: 3500K 95CRI 40D, **SBLA** **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	**95**	95 typical, 90 minimum	
OPTIC & LM MULTIPLIER	**20D**[1,2]	20 degrees	(1.00)
	30D[2]	30 degrees	(0.93)
	40D	40 degrees	(1.00)
	50D	50 degrees	(0.99)
	55D	55 degrees	(0.96)
ACCESSORY	**NA**	no accessory	(1.06)
	EA	elliptical lens	(0.71)
	HCL	honeycomb louver	(0.78)
	HETA	high efficiency textured lens, similar to Solite™	(0.96)
	SBLA	smoothing beam lens	(1.00)
	Attached to **TIR** optic, field replaceable (maximum, 1 media)		
BEZEL LENS	**NL**[3]	no lens	(1.06)
	CL	clear lens	(0.99)
	DL	diffused lens	(0.97)
	E	elliptical beam spread	(0.97)
	HET	high efficiency textured lens, similar to Solite™	(0.98)
	SBL	smoothing beam lens	(0.98)
	WDL	wide diffused lens*	(0.92)
	*Wide diffusing lens achieves beams ≥ 90° Ref. page 3		
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	
	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.		

1840

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

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
	IC[5]	insulation contact housing
	ICAT[5]	insulation contact/airtight housing
	CP[5]	chicago plenum housing
VOLTAGE	**UNV**	120V-277V
	LVL[6,7]	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
	NLT	nLight control interface: Cat-5/RJ45, dim to off
	REMOTE DX COMPACT DRIVER (ref. page 10 for available options)	
	WIRELESS (ref. page 11 for available options)	

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

NU4 - TSA - TW - 20LM - 2765 - 95 - 55D - NA - CL - WH - WH - NC - UNV - DIM10Z

NOTES

1. 20D available in 10LM.
2. 20D/30D/40D includes SBLA accessory lens as standard. Not available with NA/HCL.
3. NL option does not meet requirements for AT/DF/WET/NSF listings
4. Custom set up fee plus minimum quantity required per color.
5. IC/ICAT/CP not available in 20LM.
6. Available with NC mounting option only.
7. Must select DX dimming with LVL.
8. Requires 2 wall controllers.

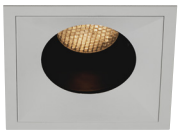
*EML = equivalent melanopic lux. To calculate EML, multiply the measured photopic lux by the EML Ratio for the given CCT. Example: 254 lux x 0.79 = 200 melanopic lux at 4000K.

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

OPTICAL OPTIONS

- 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 15LM fixtures, unless otherwise noted.

HCL-NL
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
20D*	20	<10
30D	29	<10
40D	37	<10
50D	44	<10
55D	49	<10

* 20D UGR Calculation based on 10LM

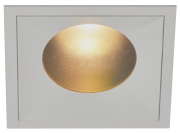
NA-NL
No Lens



OPTIC	BEAM ANGLE	UGR
20D*	20	<10
30D	31	12
40D	40	13
50D	48	14
55D	56	14

* 20D UGR Calculation based on 10LM

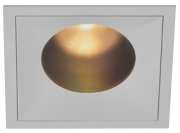
HETA-NL
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D*	22	<10
30D	33	<10
40D	40	<10
50D	47	11
55D	54	11

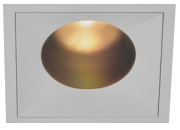
* 20D UGR Calculation based on 10LM

EA-NL
Elliptical Lens



OPTIC	BEAM ANGLE	UGR
30D	40x55	10x11
40D	44x57	11x14
50D	49x61	12x14
55D	54x64	13x15

SBLA-NL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
20D*	21	<10
30D	32	<10
40D	41	<10
50D	49	<10
55D	56	<10

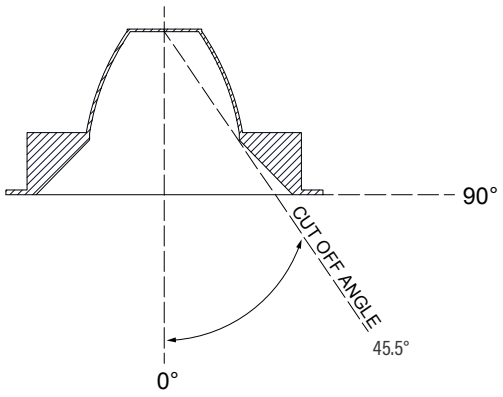
* 20D UGR Calculation based on 10LM

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 45.5° degrees;



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 15LM fixtures, unless otherwise noted.

NA-CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
20D*	20	<10
30D	31	12
40D	40	14
50D	49	14
55D	56	14

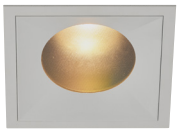
* 20D UGR Calculation based on 10LM

NA-DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
30D	44	16
40D	49	17
50D	55	18
55D	61	19

NA-HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D*	24	11
30D	32	13
40D	40	14
50D	47	14
55D	54	14

* 20D UGR Calculation based on 10LM

NA-WDL
Wide Diffused Lens



OPTIC	BEAM ANGLE	UGR
30D	88	22
40D	93	23
50D	98	24
55D	103	25

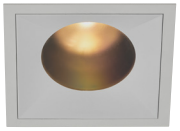
NA-NL
No Lens



OPTIC	BEAM ANGLE	UGR
20D*	20	<10
30D	31	12
40D	40	13
50D	48	14
55D	56	14

* 20D UGR Calculation based on 10LM

NA-SBL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
20D*	21	<10
30D	32	13
40D	40	14
50D	48	14
55D	55	14

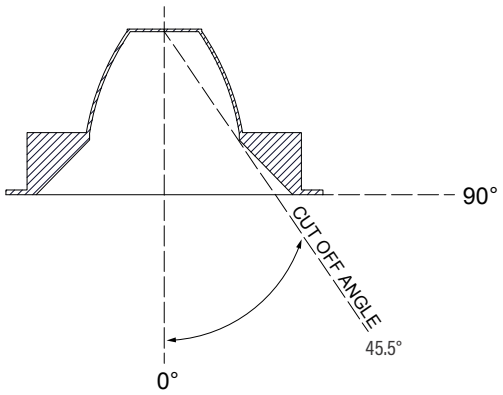
* 20D UGR Calculation based on 10LM

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 45.5° degrees;



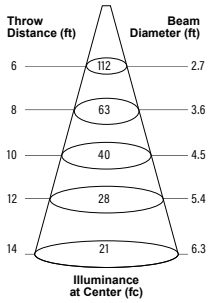
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

10LM

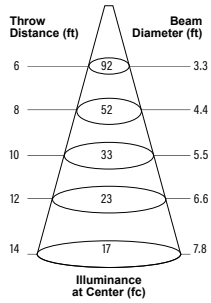
30D 31° WITH SBLA LENS



WATTS: 15	LPW: 64.8
LUMENS: 973	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	4019
5	3764
15	1477
25	335
35	22
45	3

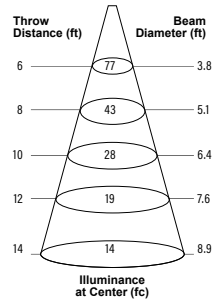
40D 40° WITH SBLA LENS



WATTS: 15	LPW: 69.3
LUMENS: 1040	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	3297
5	3103
15	1727
25	408
35	53
45	6

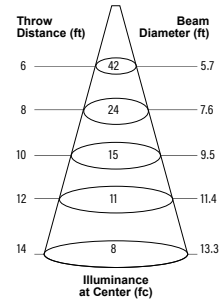
50D 49° WITH SBLA LENS



WATTS: 15	LPW: 69
LUMENS: 1036	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	2754
5	2637
15	1689
25	572
35	64
45	7

55D 55° WITH SBLA LENS

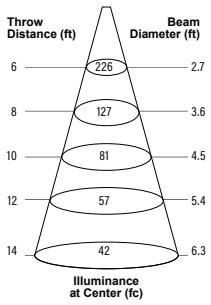


WATTS: 15	LPW: 66.7
LUMENS: 1001	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	1520
5	1480
15	1230
25	782
35	237
45	20

20LM

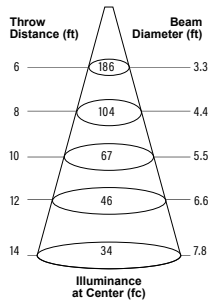
30D 31° WITH SBLA LENS



WATTS: 28	LPW: 66.6
LUMENS: 1865	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	8143
5	7626
15	2992
25	680
35	45
45	5

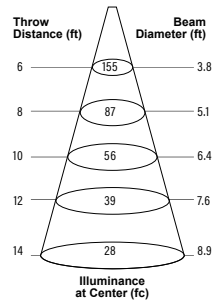
40D 40° WITH SBLA LENS



WATTS: 28	LPW: 71.2
LUMENS: 1994	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	6681
5	6286
15	3500
25	826
35	108
45	13

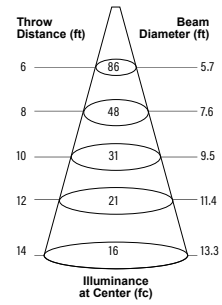
50D 49° WITH SBLA LENS



WATTS: 28	LPW: 70.9
LUMENS: 1986	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	5580
5	5342
15	3421
25	1159
35	130
45	14

55D 55° WITH SBLA LENS



WATTS: 28	LPW: 68.5
LUMENS: 1919	CCT: 3500K

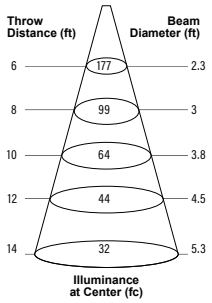
INTENSITY	
DEGREE	CANDELA
0	3081
5	2998
15	2491
25	1584
35	480
45	41

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

10LM

20D
21° WITH SBLA LENS



WATTS: 16.4	LPW: 63
LUMENS: 1034	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	6344
5	5648
15	1515
25	189
35	28
45	2

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

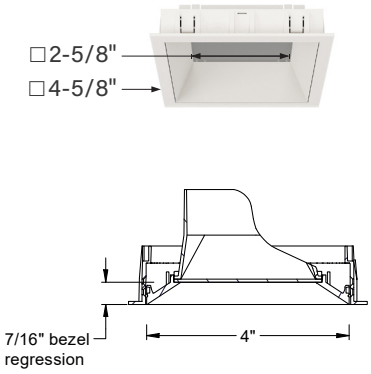
TRIM OPTIONS

TRIM/BEZEL COLORS

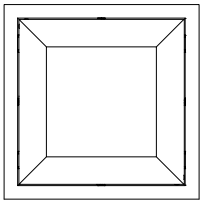


WH MC BK BZ CC

TRIMMED



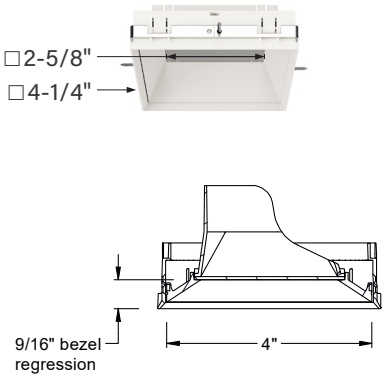
aperture dimensions



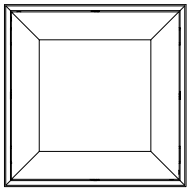
ceiling cutout
4-1/4" square

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

MILLWORK



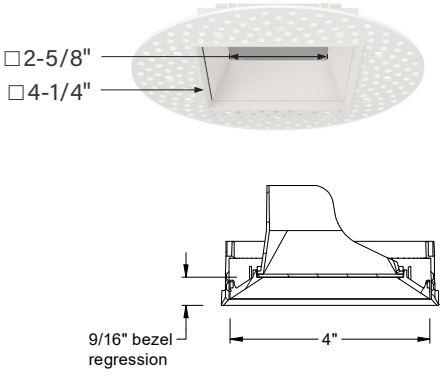
aperture dimensions



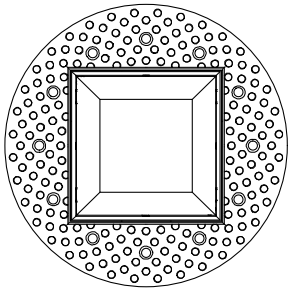
ceiling cutout
4-1/4" square

ceiling thickness
1/2" to 1-1/4"

TRIMLESS



aperture dimensions



ceiling cutout
4-1/2" square

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

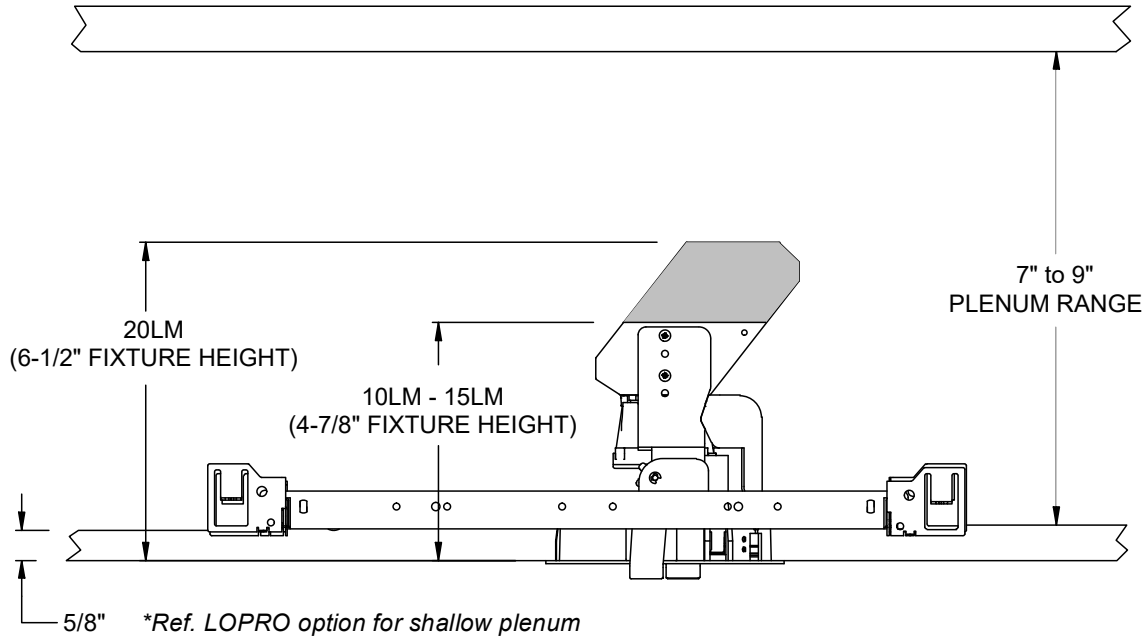
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

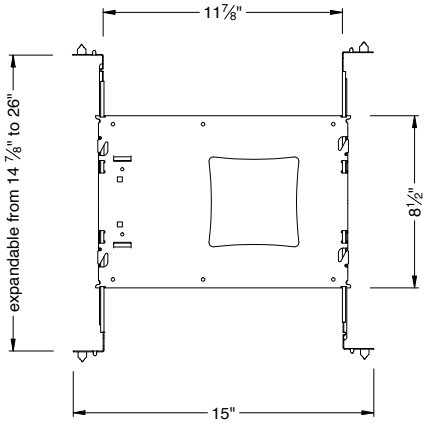
RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✔	✔			
TYPE IC			✔	✔	
CHICAGO PLENUM (CCEA)					✔
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔✓	✔	✔	✔	✔

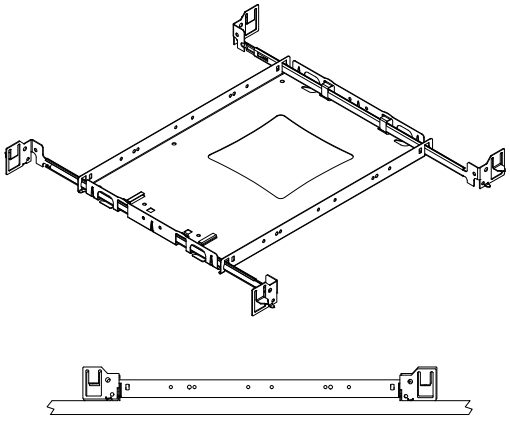
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-1/4"	1" to 1 7/8"
TRIMLESS	3/8" to 1-1/4"	1" to 1 7/8"
MILLWORK (TRIMLESS)	1/2" to 1-1/4"	1" to 1 7/8"

PLENUM HEIGHT



NEW CONSTRUCTION - NC



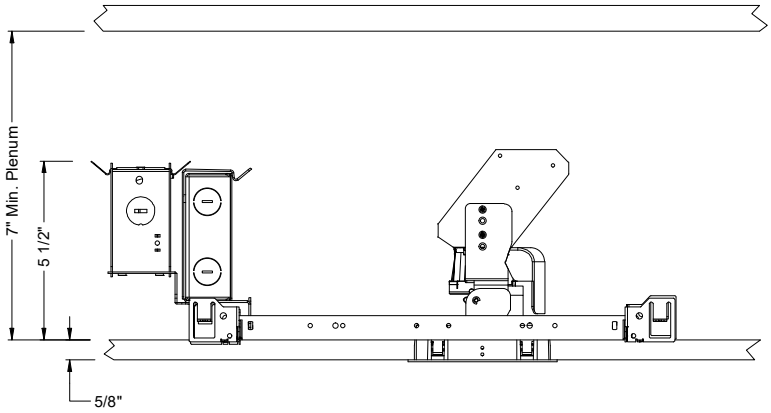


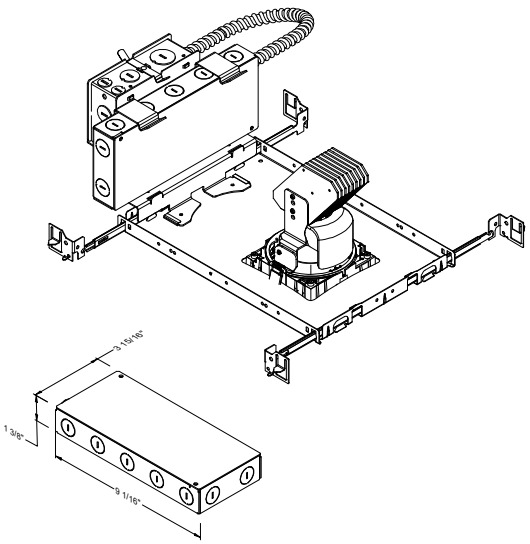
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

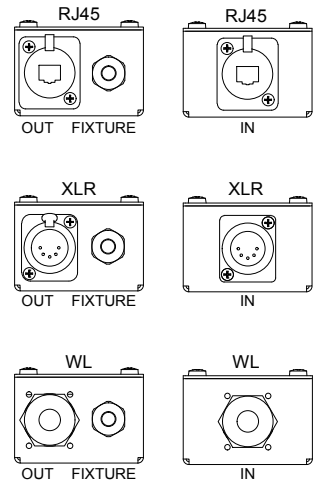
MOUNTING OPTIONS

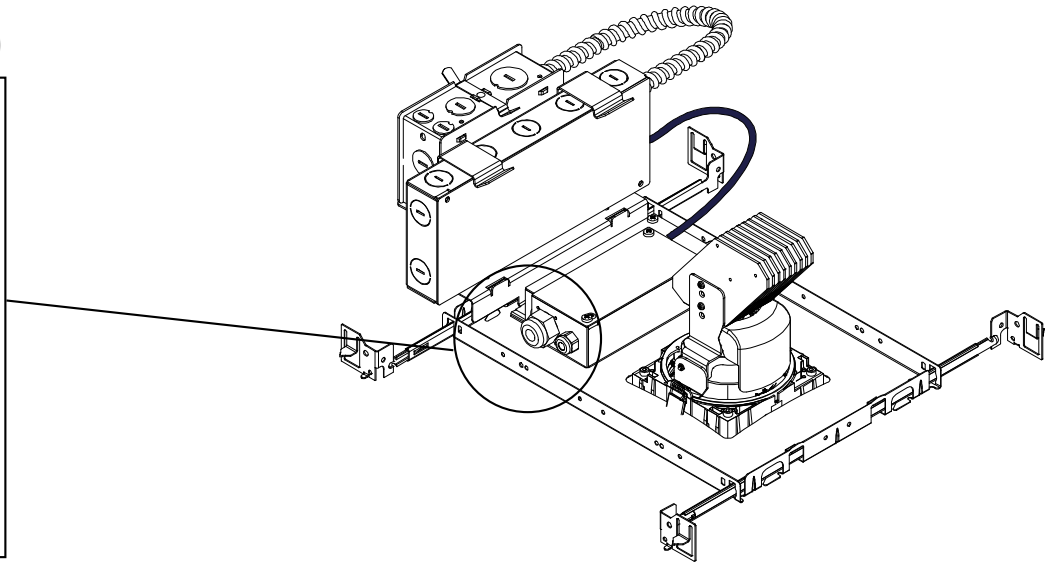
10LM-20LM (DIM10Z / DALIZ-DT6 / DALIZ-DT8)
(BELOW CEILING ACCESSIBLE)



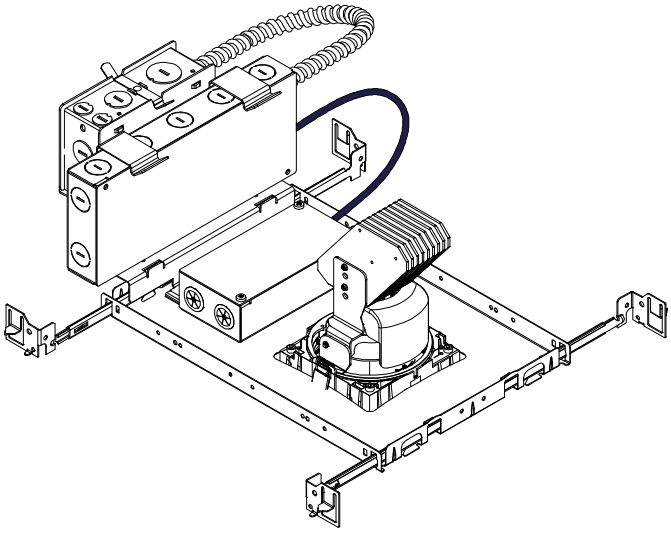


10LM-20LM (DMXZ)
(BELOW CEILING ACCESSIBLE)





10LM-20LM NLT HOUSING - (NLT)
(BELOW CEILING ACCESSIBLE)

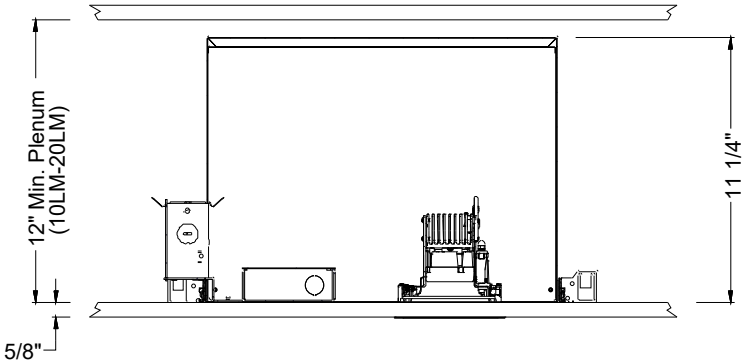


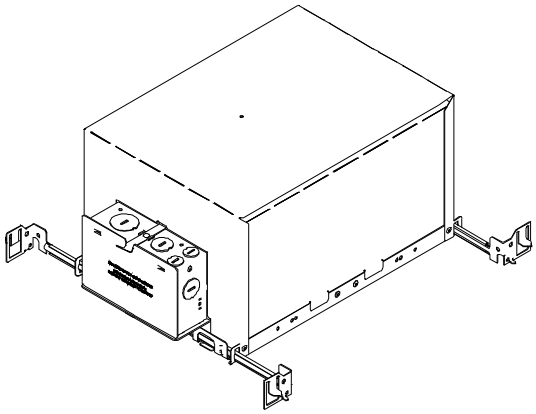
In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

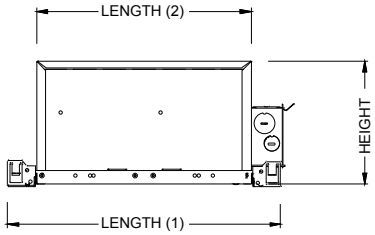
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

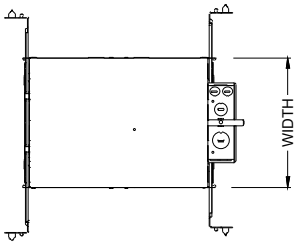
MOUNTING OPTIONS

IC - INSULATION CONTACT | ICAT - INSULATION CONTACT / AIR TIGHT | CP - CHICAGO PLENUM
(DIM10Z / DALIZ-DT6 / DALIZ-DT8)









BOX SIZE	L 1	L 2	W	H
A	18 - 1/4"1234	14 - 7/8"	12 - 1/8"	11 - 1/4"

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (30° - 100°)			
LUMEN OUTPUT	BOX-A		
	IC	ICAT	CP
10LM	✔	✔	✔
15LM	✔	✔	✔
20LM			

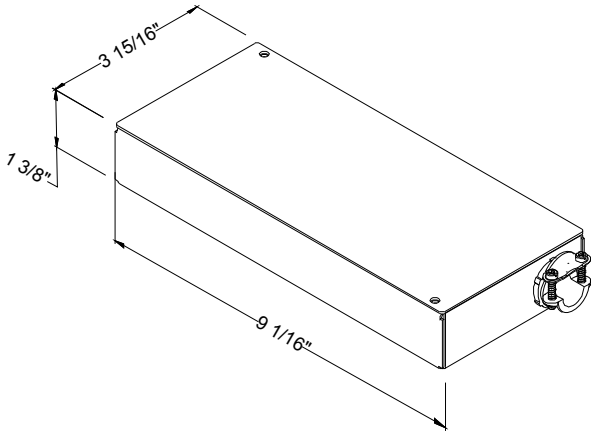
BOX TYPE / LUMEN OUTPUT - NARROW BEAM 20°)			
LUMEN OUTPUT	BOX-A		
	CP	IC	ICAT
10LM	✔	✔	✔

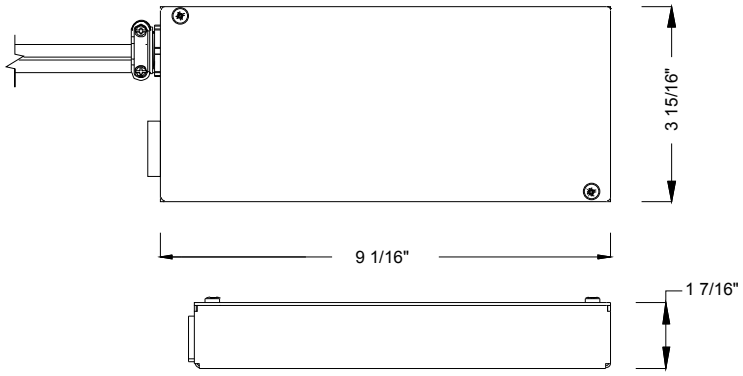
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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

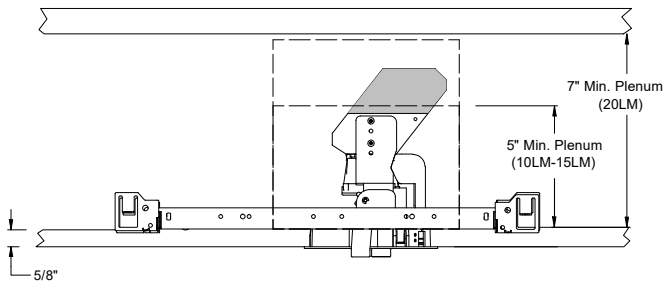




*Remote DX can power LEDs up to 330FT (18 AWG).
Customer will recieve a single remote compact driver per fixture.

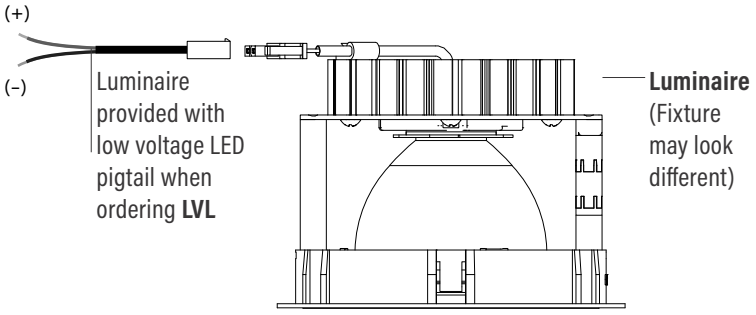
PLENUM HEIGHT

(NC-LVL-DX) NEW CONSTRUCTION REMOTE DX PANEL



NOMINAL LED VOLTAGE: 36VDC

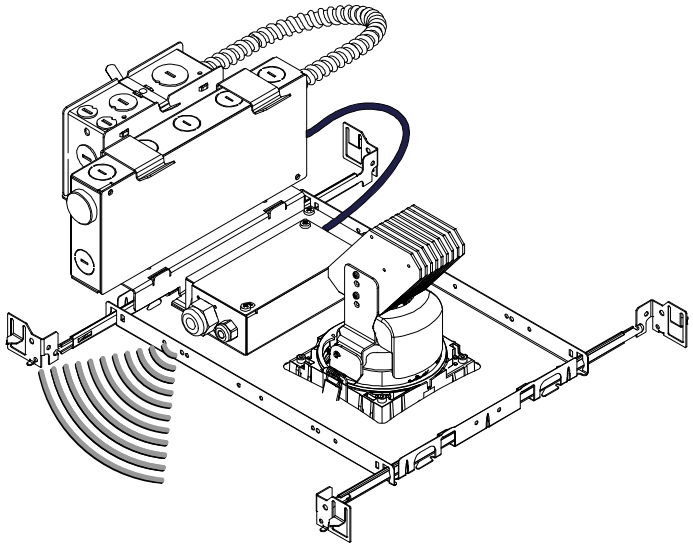
Customer to order CC Remote Driver separately or POE Node by others.



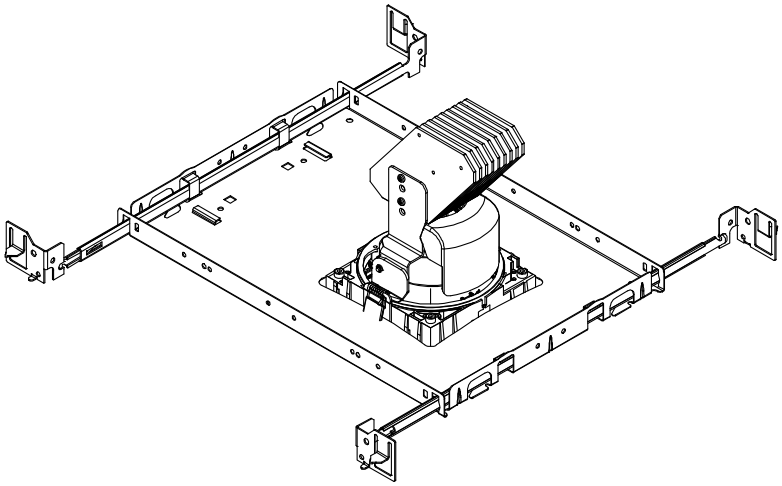
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

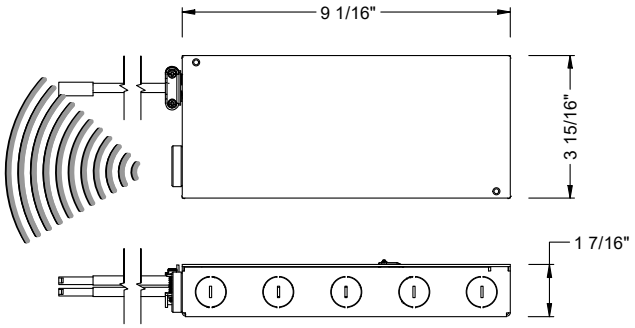
WIRELESS OPTIONS

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 - TSA - TW - 20LM - 2765 - 95 - 30D - NA - CL - WH - WH - NC - UNV - DIM10Z - AWND
NU4 - TSA - TW - 20LM - 2765 - 95 - 30D - NA - CL - WH - WH - NC - UNV - DIM10Z - 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



MODEL NUMBER

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

POWER SUPPLY

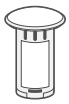
(DALI2 Driver): Moons D4i DALI2 LED driver with DALI Bus Power, Dim-to-off

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