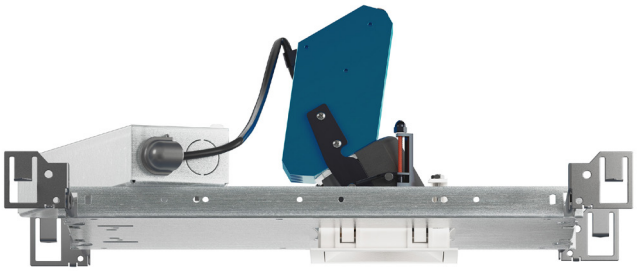
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU3

3" Toolless Square Adjustable Tunable White

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



35° -100° BEAM (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	1050LM @35K/95CRI	15W
15LM	1470LM @35K/95CRI	20W
Notes	Delivered lumens based on 55D optic with SBLA lens, (see page 2)	

25° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	980LM @35K/95CRI	16W
Notes	Delivered lumens based on 25D optic with SBLA lens, (see page 2)	

FEATURES

- True 40° Tilt with <10% 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 <10
- Multiple mounting and glare control options
- 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 13)

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 - 3 1/4" x 3 1/4"
  Millwork - 3 9/32" x 3 9/32"
  Trimless - 3 1/2" x 3 1/2"

LED

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

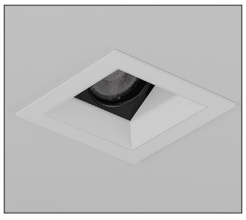
LISTING

- 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 with lens (Non-Food and Splash Zones)
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

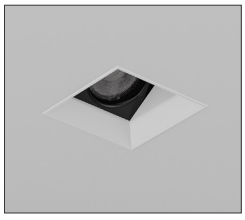
ELECTRICAL

- Power factor ≥ 0.9
- 2kV driver input surge protection
- Max. ambient installation temperature 95°F (35°C)

TRIM OPTIONS



Trimmed

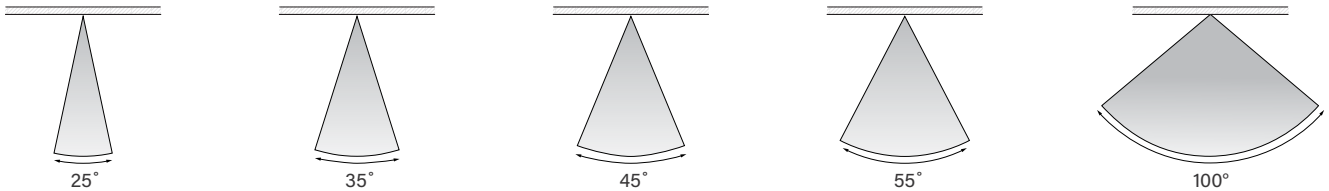


Trimless



Trimless Millwork

BEAM SPREADS



101569

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU3**	NU3
TYPE	**TSA**	toolless square adjustable
	TSAT	toolless square adjustable trimless
	TSATMW	toolless square adjustable trimless millwork
LED	**TW**	tunable white (Luminus)
DELIVERED LUMENS	**10LM**	1050 lm
	15LM	1470 lm
	Standard Configuration: 3500K 95CRI 55D, **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

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

CRI	**95**	95 typical, 90 minimum	
OPTIC & LM MULTIPLIER	**25D**[1,2]	25 degrees	(1.00)
	35D[2]	35 degrees	(0.86)
	45D	45 degrees	(0.90)
	55D	55 degrees	(1.00)
ACCESSORY	**NA**	no accessory	(1.08)
	EA	elliptical lens	(0.80)
	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	(1.02)
	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.		

ORDERING CODE

MOUNTING OPTIONS	**NC**	new construction plate
	NC-F	new construction plate, fixed driver
	IC	insulation contact housing
	ICAT	insulation contact/airtight housing
	CP	chicago plenum housing
	RET	retrofit, no ceiling plate
VOLTAGE	**UNV**	120V-277V
	LVL[5,6]	low voltage luminaire
DIMMING	**DIM10Z**[7]	eldoLED flicker free 0-10V dim to 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
	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 12 for available options)	
	WIRELESS (ref. page 13 for available options)	
SPECIAL	**TC**	1-1/4" to 1-7/8" ceiling thickness

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

NU3 - TSA - TW - 15LM - 2765 - 95 - 55D - SBLA - NL - WH - WH - NC - UNV - DIM10Z

NOTES

1. 25D available in 10LM.
2. 25D/35D includes SBLA accessory lens as standard. Not available with NA/HCL.
3. NL option does not meet requirement for AT/DF/WET/NSF listings.
4. Custom set up fee plus minimum quantity required per color.
5. Available with NC or RET mounting options only.
6. Must select DX dimming with LVL.
7. Requires 2 wall controllers (see wiring diagram)

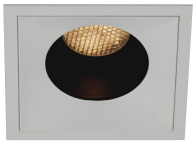
*EML = equivalent melanopic lux. To calculate EML, multiply the measured photopic lux by the EML Ratio for the given CCT. Example: 254 lux x 0.79 = 200 melanopic lux at 4000K.

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
25D*	24	<10
35D	32	<10
45D	40	<10
55D	50	<10

* 25D UGR Calculation based on 10LM

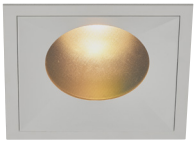
NA-NL
No Lens



OPTIC	BEAM ANGLE	UGR
25D*	25	<10
35D	35	<10
45D	44	<10
55D	57	<10

* 25D UGR Calculation based on 10LM

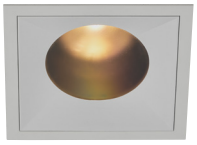
HETA-NL
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
25D*	26	<10
35D	35	<10
45D	42	<10
55D	54	<10

* 25D UGR Calculation based on 10LM

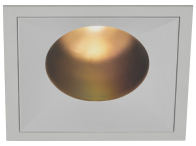
SBLA-NL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
25D*	25	<10
35D	35	<10
45D	43	<10
55D	55	<10

* 25D UGR Calculation based on 10LM

EA-NL
Elliptical Lens



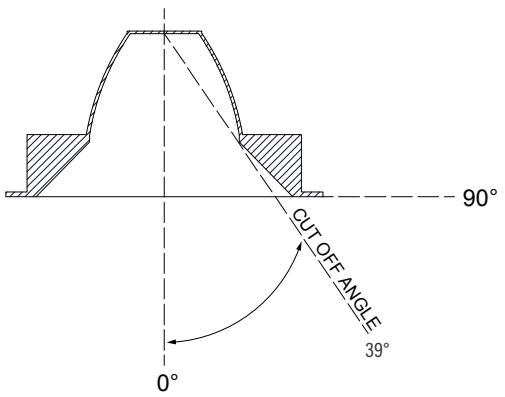
OPTIC	BEAM ANGLE	UGR
35D	45x65	<10
45D	50x67	<10
55D	58x78	<10

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 39 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
25D*	25	<10
35D	34	12
45D	43	14
55D	55	13

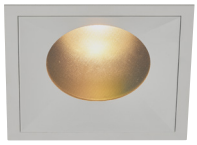
* 25D UGR Calculation based on 10LM

NA-DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
35D	45	16
45D	50	17
55D	60	20

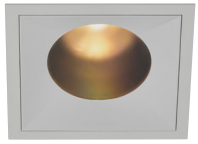
NA-HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
25D*	27	<10
35D	34	13
45D	42	14
55D	53	14

* 25D UGR Calculation based on 10LM

NA-WDL
Wide Diffused Lens



OPTIC	BEAM ANGLE	UGR
35D	85	23
45D	89	24
55D	97	26

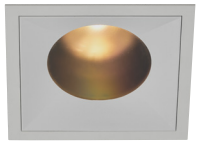
NA-NL
No Lens



OPTIC	BEAM ANGLE	UGR
25D*	25	<10
35D	35	<10
45D	44	<10
55D	57	<10

* 25D UGR Calculation based on 10LM

NA-SBL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
25D*	25	<10
35D	34	13
45D	43	14
55D	55	13

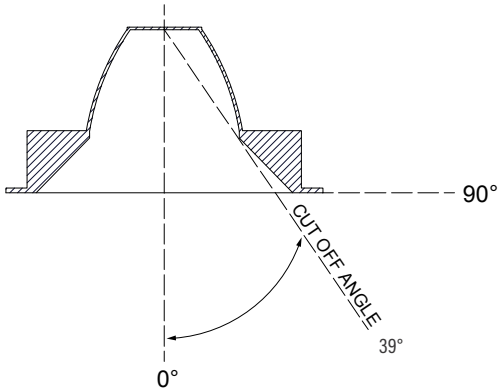
* 25D UGR Calculation based on 10LM

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 39 degrees;



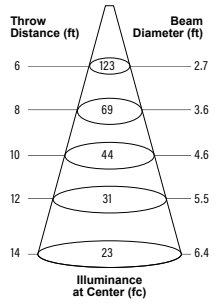
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

10LM

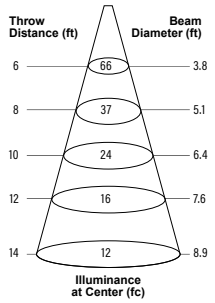
25D 25° WITH SBLA LENS



WATTS: 16.4	LPW: 60
LUMENS: 984	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	4421
5	4057
15	1675
25	283
35	28
45	4

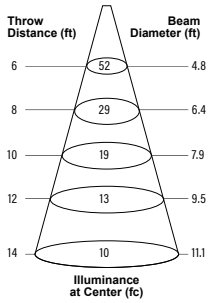
35D 35° WITH SBLA LENS



WATTS: 14.8	LPW: 59.6
LUMENS: 882	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	2358
5	2279
15	1485
25	459
35	60
45	10

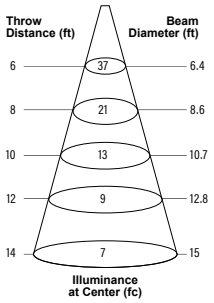
45D 43° WITH SBLA LENS



WATTS: 14.8	LPW: 63.5
LUMENS: 940	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	1882
5	1849
15	1484
25	635
35	80
45	12

55D 55° WITH SBLA LENS

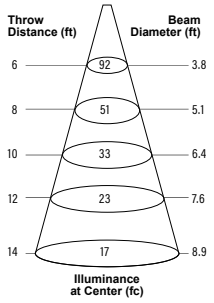


WATTS: 14.8	LPW: 70.9
LUMENS: 1050	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	1328
5	1324
15	1234
25	848
35	267
45	28

15LM

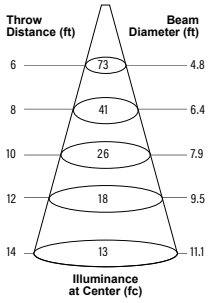
35D 35° WITH SBLA LENS



WATTS: 20.4	LPW: 60.4
LUMENS: 1232	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	3295
5	3184
15	2075
25	641
35	84
45	14

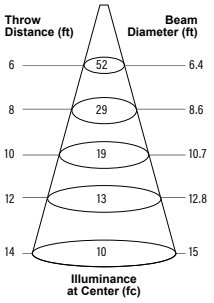
45D 43° WITH SBLA LENS



WATTS: 20.4	LPW: 64.4
LUMENS: 1314	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	2629
5	2584
15	2073
25	887
35	111
45	16

55D 55° WITH SBLA LENS

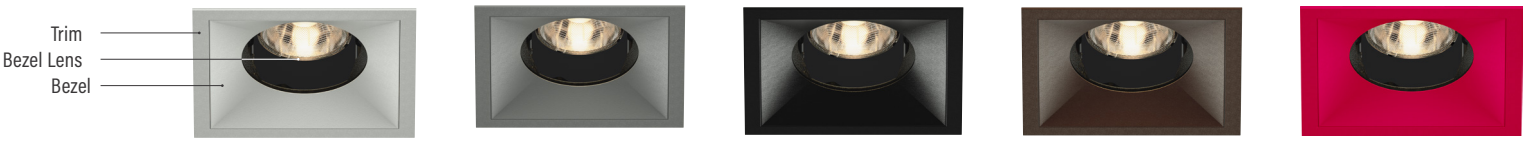


WATTS: 20.4	LPW: 71.9
LUMENS: 1467	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	1855
5	1850
15	1724
25	1184
35	373
45	38

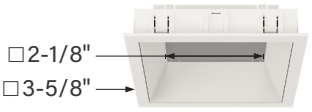
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

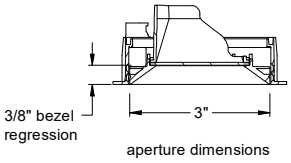
TRIM/BEZEL COLORS

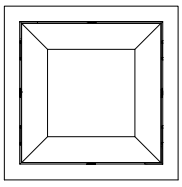


WH MC BK BZ CC

TRIMMED

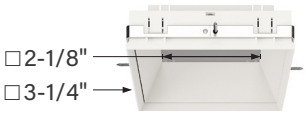


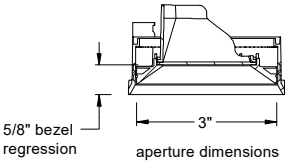


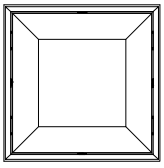


ceiling cutout
3-1/4" square
ceiling thickness
1/8" to 1-1/4"

MILLWORK

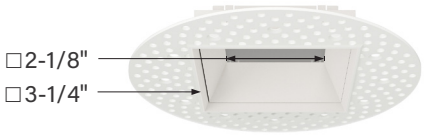


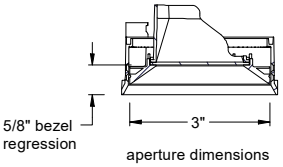


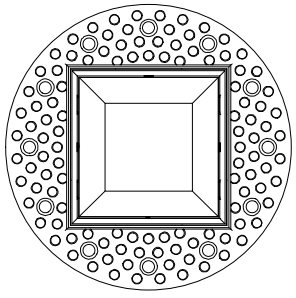


ceiling cutout
3-9/32" square
ceiling thickness
1/2" to 1-1/4"

TRIMLESS







ceiling cutout
3-1/2" square
ceiling thickness
3/8" to 1-1/4"

THICK CEILING FIXTURE INFO		
TILT	ROTATION	CEILING THICKNESS
0° - 20°	60°	1 1/4" to 1 7/8"

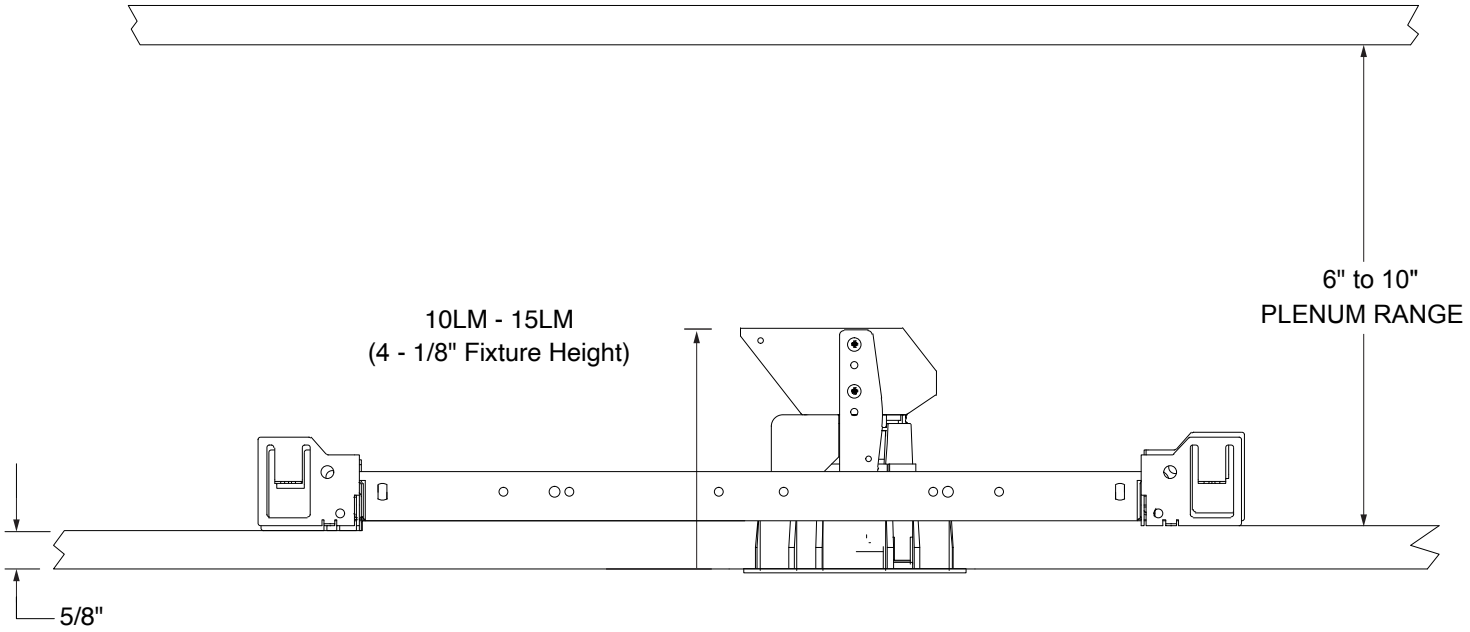
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

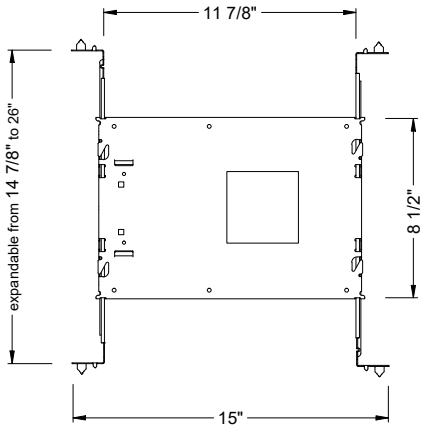
RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✔	✔			
TYPE IC			✔	✔	
CHICAGO PLENUM (CCEA)					✔
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔	✔	✔	✔	✔

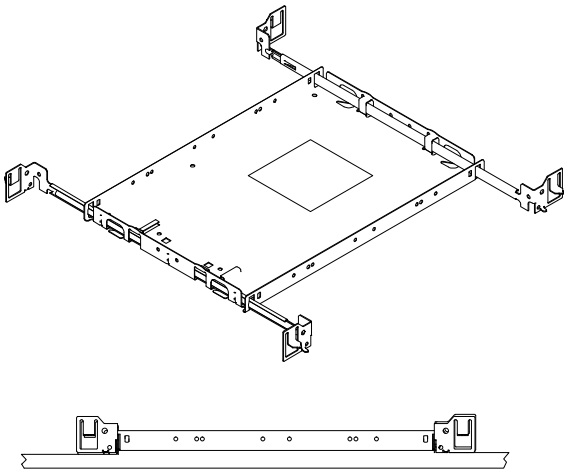
MOUNTING TYPE	STANDARD CEILING THICKNESS	THICK CEILING THICKNESS
TRIM	1/8" to 1-1/4"	1-1/4" to 1-7/8"
TRIMLESS	3/8" to 1-1/4"	1-1/4" to 1-7/8"
MILLWORK (TRIMLESS)	1/2" to 1-1/4"	1-1/4" to 1-7/8"

PLENUM HEIGHT



NEW CONSTRUCTION - NC



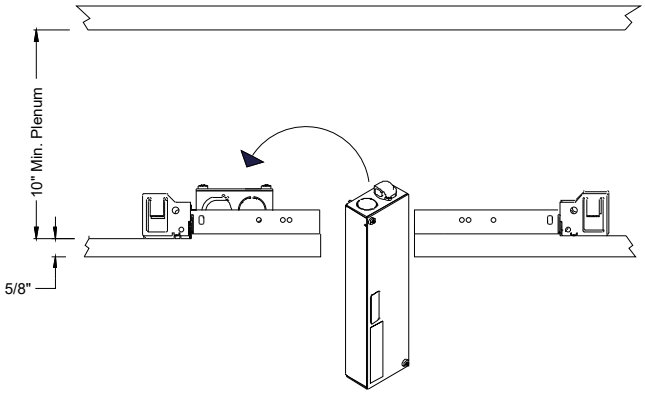


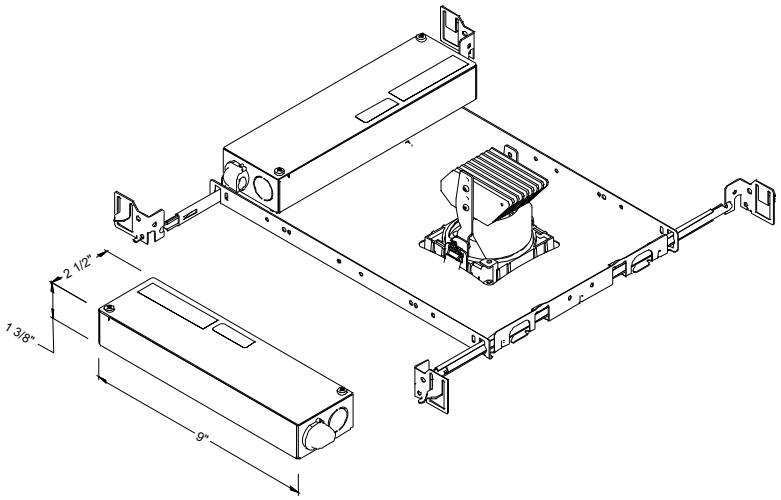
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

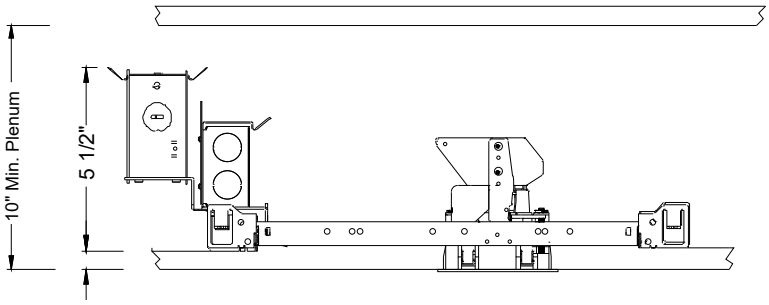
MOUNTING OPTIONS

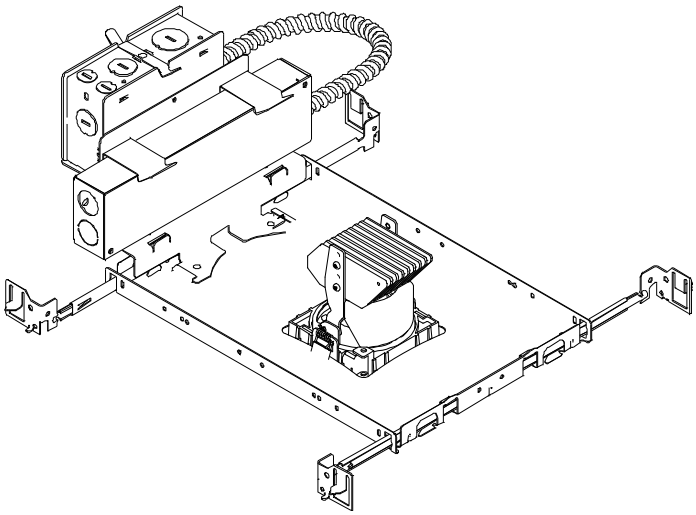
10LM-15LM (DIM10Z / DALIZ-DT6 / DALIZ-DT8) - FLOATING
(BELOW CEILING ACCESSIBLE)





10LM-15LM (DIM10Z / DALIZ - DT6 / DALI - DT8) - FIXED
(ABOVE CEILING ACCESSIBLE)

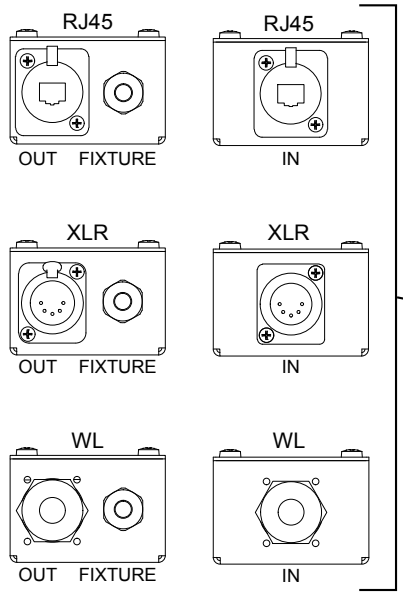


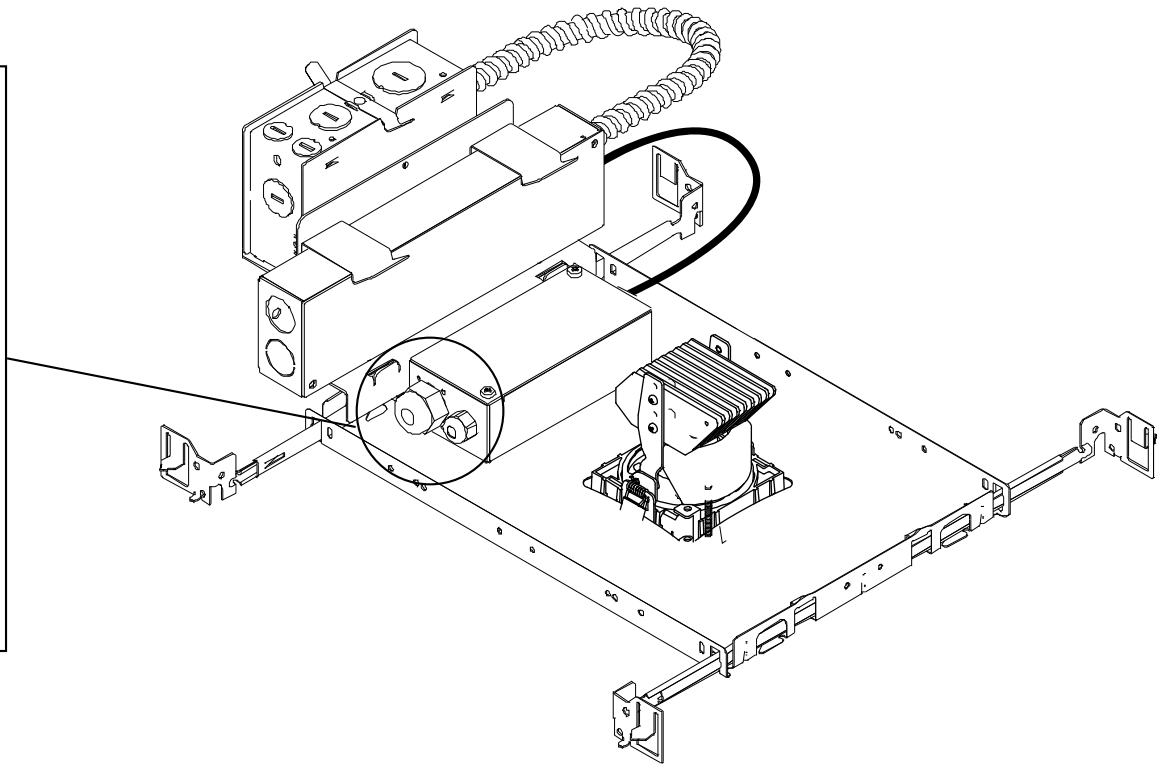


PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

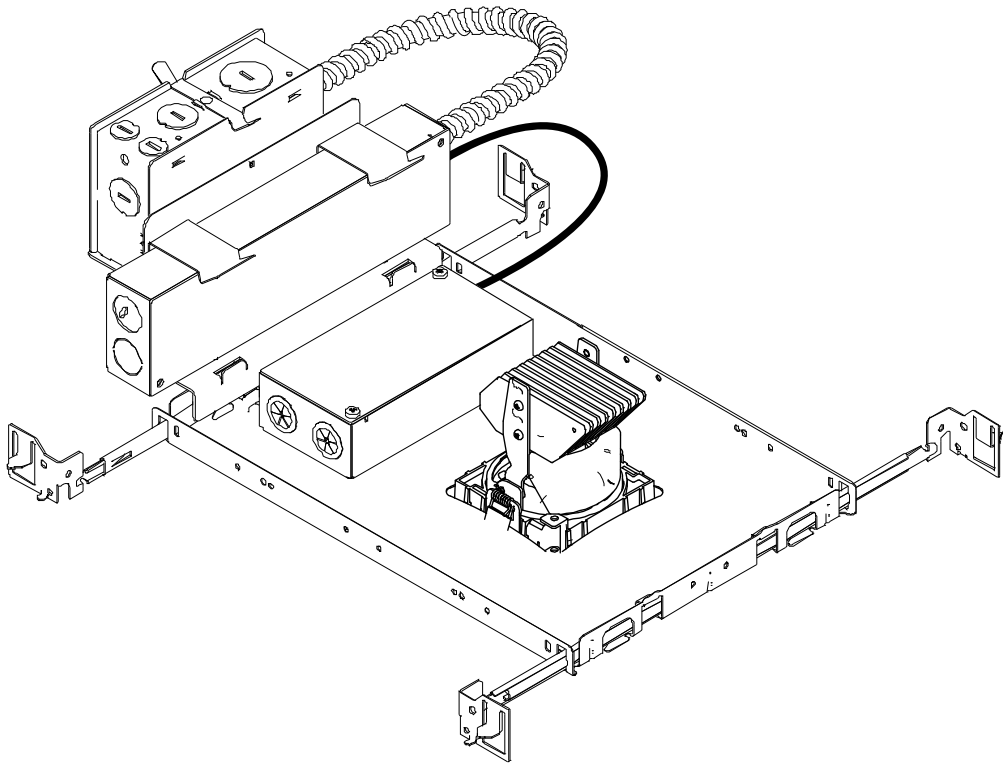
MOUNTING OPTIONS

10LM-15LM (DMX-WL / DMX-XLR / DMX -RJ45) - FIXED
(ABOVE CEILING ACCESSIBLE)





10LM-15LM (NLT) - FIXED
(ABOVE CEILING ACCESSIBLE)

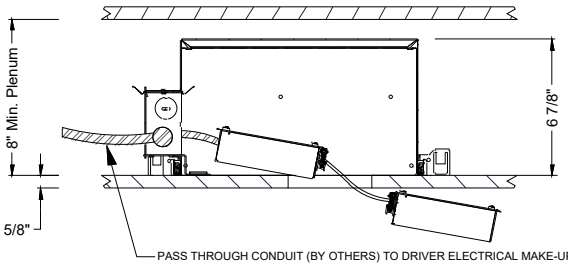


PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

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

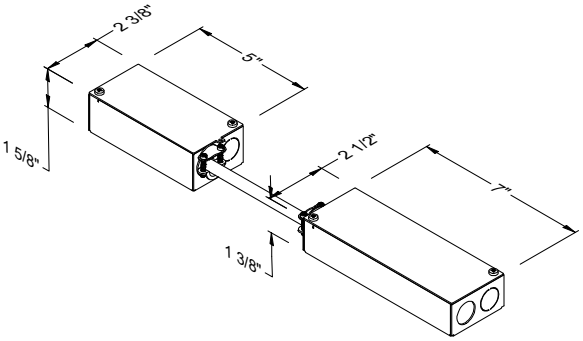
(BELOW CEILING ACCESSIBLE)

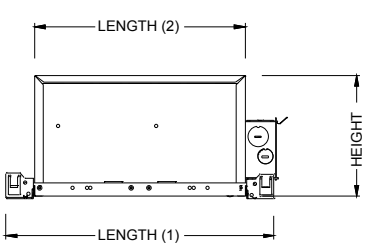


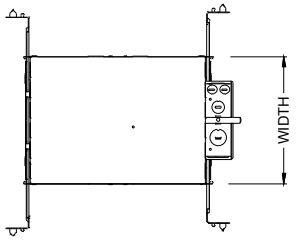
PASS THROUGH CONDUIT (BY OTHERS) TO DRIVER ELECTRICAL MAKE-UP BOX.

PROVIDE ENOUGH SLACK IN CONDUIT FOR FUTURE BELOW CEILING DRIVER SERVIABLITY.

FOR AIRTIGHT, SEAL ALL JOINTS, SEAMS, AND CONDUIT PENETRATIONS WITH 181 UL LISTED ALUMINUM FOIL TAPE (BY OTHERS).







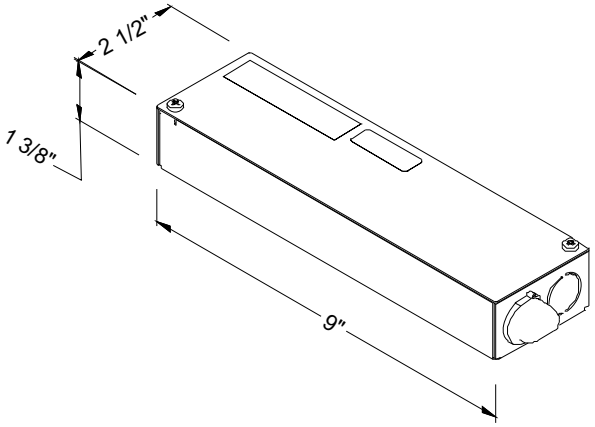
BOX SIZE	L 1	L 2	W	H
A	15 - 7/16"	11 - 3/4"	8 - 1/2"	6 - 3/4"

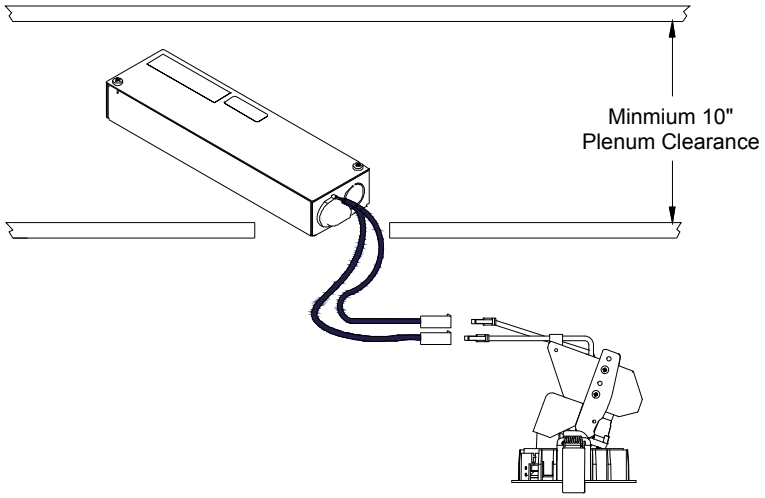
BOX TYPE / LUMEN OUTPUT - STANDARD BEAM (35°-100°)			
LUMEN OUTPUT	BOX-A		
	CP	IC	ICAT
10LM	✔	✔	✔
15LM	✔	✔	✔

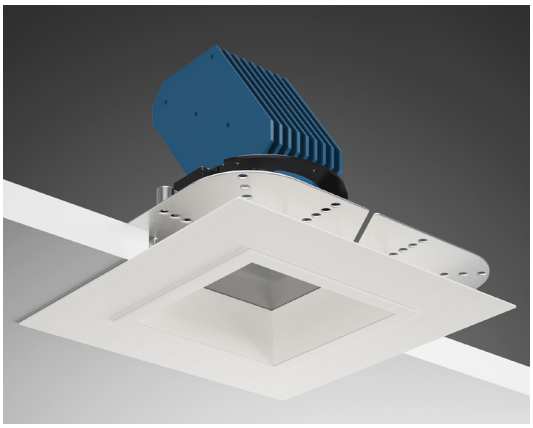
BOX TYPE / LUMEN OUTPUT - NARROW BEAM (25°)			
LUMEN OUTPUT	BOX-A		
	CP	IC	ICAT
10LM	✔	✔	✔

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

RETRO OPTIONS







NU3 SERIES - Goof Ring, Square

PRODUCT	SQUARE CEILING HOLE CUTOUT RANGE[1]	GOOF RING SIZE	ORDERING CODE
NU3-QD NU3-QW	3.38" to 3.88"	AF = 6.0" x 6.0"	GF-3Q-1-XX[2]
NU3-QD NU3-QA NU3-QW	3.89" to 4.5"		GF-3Q-2-XX[3]
	4.51" to 5.0"		GF-3Q-3-XX[3]
	5.01" to 5.5"	AF = 7.0" x 7.0"	GF-3Q-4-XX[3]
	5.51" to 6.0"		GF-3Q-5-XX[3]

1. Choose the appropriate range only if your ceiling cutout measurement falls within that range.
   Example: - If your ceiling cutout is 4.75" inches, choose the range 4.51" to 5.0".
   - If your ceiling cutout is 5.5" inches, choose the range 5.01" to 5.5".
2. Upper goof ring not included.
3. Upper goof ring included.

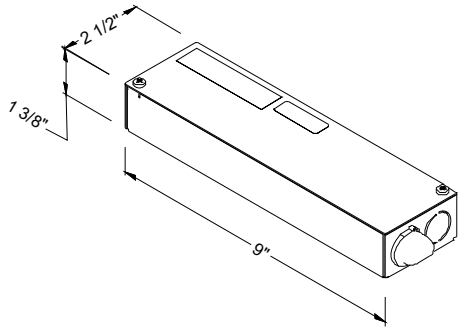
*XX - Indicates finish color. Only available in WH or BK. Complete ordering code by adding WH or BK to ordering code.
Example: GF-3Q-1-WH
*Accommodates max ceiling thickness up to 1 1/4" for QD, QA and up to 5/8" for QW.

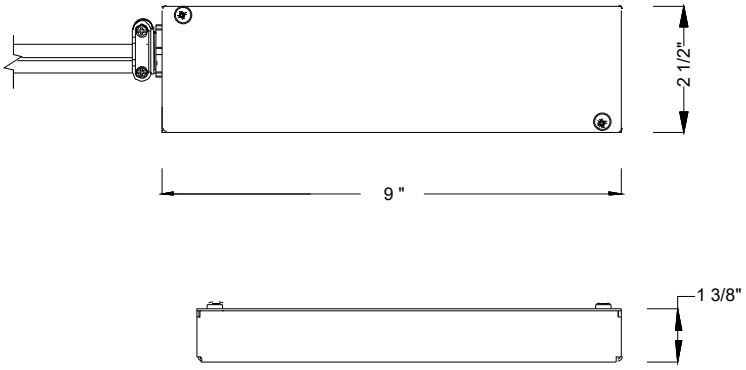
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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

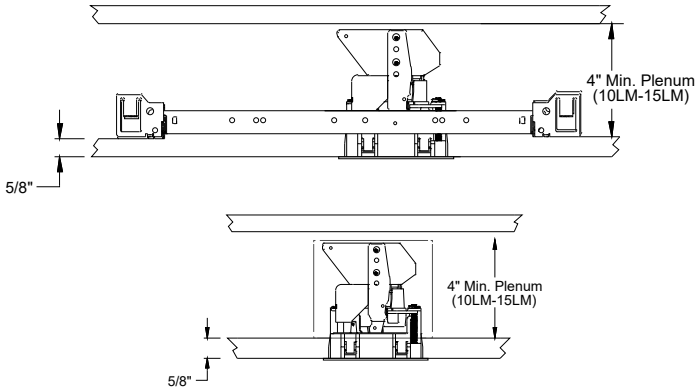




*Remote DX can power LEDs up to 330FT (18 AWG).
Customer will recieve a single remote compact driver per fixture.

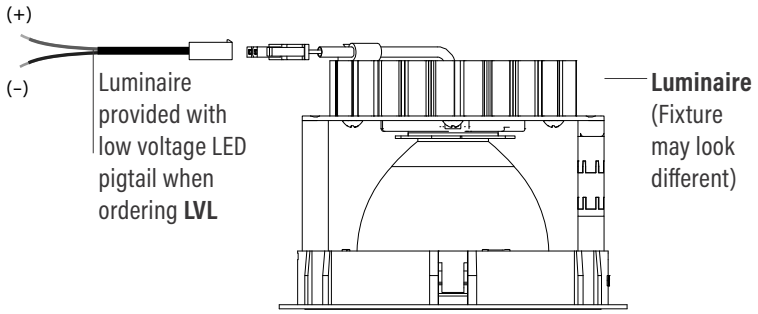
PLENUM HEIGHT

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



NOMINAL LED VOLTAGE: 36VDC

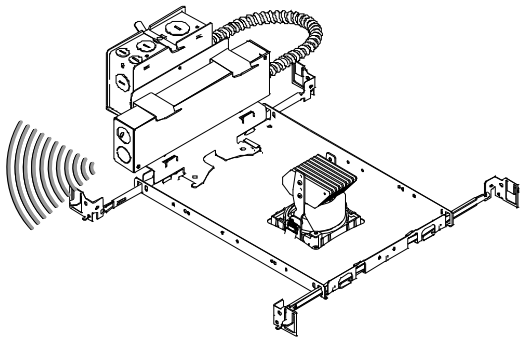
Customer to order CC Remote Driver separately or POE Node by others.



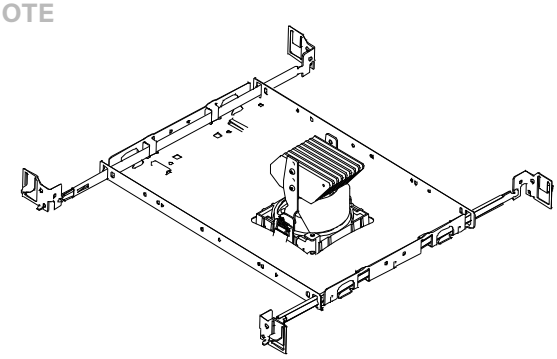
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

WIRELESS OPTIONS

NC - NEW CONSTRUCTION (10LM-15LM)
PLENUM SIDE

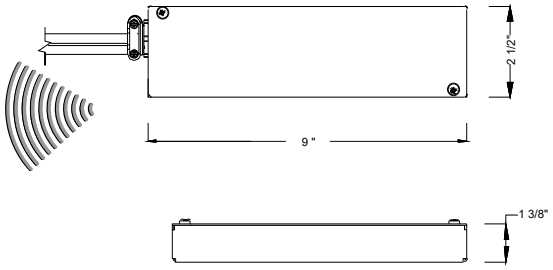


NC - NEW CONSTRUCTION (10LM-15LM)
DX REMOTE



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.

RET - RETRO 10LM - 15LM
PLENUM SIDE



YOUR COMPLETED ORDERING CODE
Follow the steps to specify your fixture, example:
NU3 - TSA - TW - 15LM - 2765 - 95 - 55D - NL - WH - WH - NC - UNV - DIM10Z - AWND
NU3 - TSA - TW - 15LM - 2765 - 95 - 55D - NL - WH - WH - NC - LVL - 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