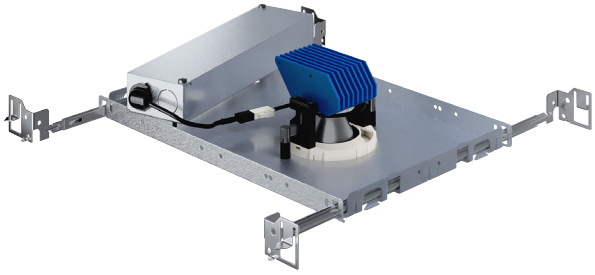
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU3

3" Round Downlight 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	11W
15LM	1470LM @35K/95CRI	16W
20LM	1890LM @35K/95CRI	20W
Notes	Delivered lumens based on 30D optic with no 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	1040LM @35K/95CRI	13W
15LM	1460LM @35K/95CRI	19W
Notes	Delivered lumens based on 20D optic with no lens, (see page 2)	

FEATURES

- 3/4" bezel regress with 1/16" micro flange
- UGR <10
- Up to 95 LPW
- 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 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 1/8" to 1-3/8"
- **CUTOUT DIMENSION:**
  Trimmed - 3-3/8"
  Millwork - 3-3/8"
  Trimless - 3-1/2"

LED

- Luminus tunable white COB: 95 CRI, R9 > 70: SDCM = 4-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

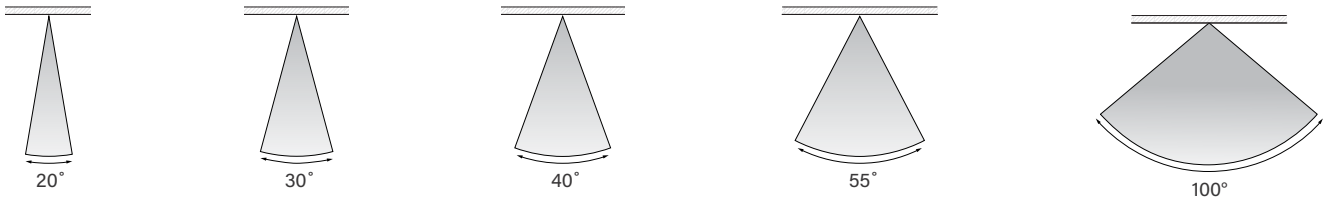


Trimless



Trimless Millwork

BEAM SPREADS



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU3**	NU3
TYPE	**RD**	round downlight
	RDT	round downlight trimless
	RDTMW	round downlight trimless millwork
LED	**TW**	tunable white (Luminus)
DELIVERED LUMENS	**10LM**	1030 lm
	15LM	1470 lm
	20LM	1880 lm
	Standard Configuration: 3500K 30D **NL**	
	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

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	**20D**[1]	20 degrees	
	30D	30 degrees	
	40D	40 degrees	
	55D	55 degrees	
ACCESSORY	**HCL**[2]	honeycomb louver	(0.68)
	Attached to bezel		
BEZEL LENS	**NL**[3]	no lens	(1.00)
	CL	clear lens	(0.94)
	DL	diffused lens	(0.92)
	E	elliptical beam spread	(0.90)
	HET	high efficiency textured lens, similar to Solite™	(0.92)
	SBL	smoothing beam lens	(0.92)
	WDL	wide diffused lens*	(0.86)
	*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	(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.		

ORDERING CODE

MOUNTING OPTIONS	**NC**	new construction plate
	NC-F	new construction plate, fixed driver
	ICAT	insulation contact/airtight housing
	IC	insulation contact 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 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)	

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

NU3 - RD - TW - 20LM - 2765 - 95 - 55D - NL - WH - WH - NC - UNV - DIM10Z

NOTES

1. 20D available in 10LM/15LM.
2. HCL not available with lens.
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
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
20D	19	<10
30D	28	<10
45D	39	<10
55D	48	<10

NL
No Lens



OPTIC	BEAM ANGLE	UGR
20D	20	<10
30D	30	<10
45D	45	<10
55D	57	<10

CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
20D	21	<10
30D	29	<10
45D	43	<10
55D	55	<10

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
30D	48	16
45D	55	16.9
55D	60	18

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D	23	<10
30D	33	<10
45D	45	<10
55D	53	<10

WDL
Wide Diffused Lens



OPTIC	BEAM ANGLE	UGR
30D	94	22.7
45D	98	24
55D	102	25

E
Elliptical Lens



OPTIC	BEAM ANGLE	UGR
30D	46x75	16x20
45D	52x80	16x22
55D	58x85	17x23

SBL
Smoothing Beam Lens



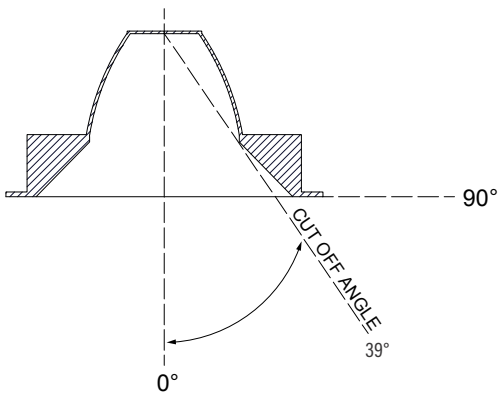
OPTIC	BEAM ANGLE	UGR
20D	20	<10
30D	30	<10
45D	44	<10
55D	53	<10

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;



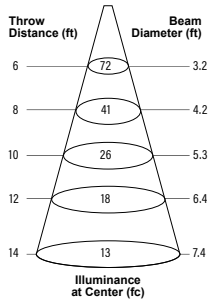
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

10LM

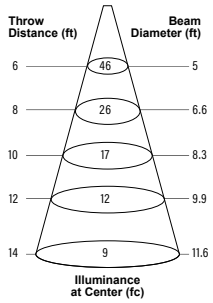
30D — 30° WITH NO LENS



WATTS: 11.2	LPW: 91.9
LUMENS: 1029	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	2593
5	2497
15	1276
25	549
35	264
45	24

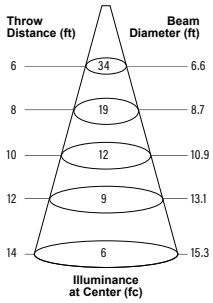
45D — 45° WITH NO LENS



WATTS: 11.2	LPW: 91.8
LUMENS: 1028	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	1670
5	1640
15	1363
25	675
35	265
45	20

55D — 57° WITH NO LENS

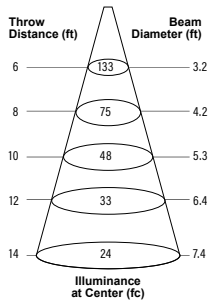


WATTS: 11.2	LPW: 88.4
LUMENS: 990	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	1223
5	1213
15	1132
25	796
35	288
45	16

20LM

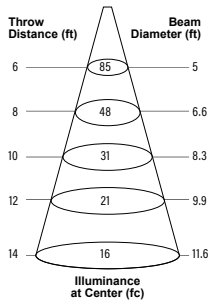
30D — 30° WITH NO LENS



WATTS: 20	LPW: 94.4
LUMENS: 1888	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	4757
5	4581
15	2341
25	1008
35	484
45	44

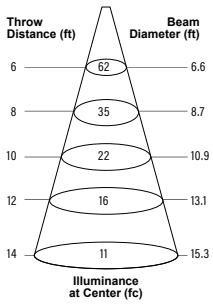
45D — 45° WITH NO LENS



WATTS: 20	LPW: 94.3
LUMENS: 1886	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	3064
5	3009
15	2501
25	1239
35	485
45	37

55D — 57° WITH NO LENS



WATTS: 20	LPW: 90.9
LUMENS: 1817	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	2243
5	2225
15	2077
25	1461
35	529
45	29

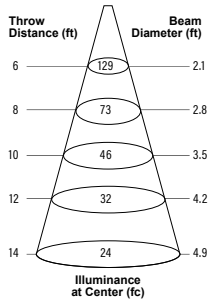
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

10LM

20D
20° WITH NO LENS

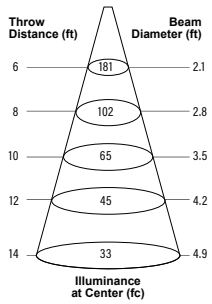


WATTS: 13.3	LPW: 78.2
LUMENS: 1040	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	4642
5	3864
15	1168
25	445
35	276
45	5

15LM

20D
20° WITH NO LENS



WATTS: 18.8	LPW: 77.5
LUMENS: 1458	CCT: 3500K

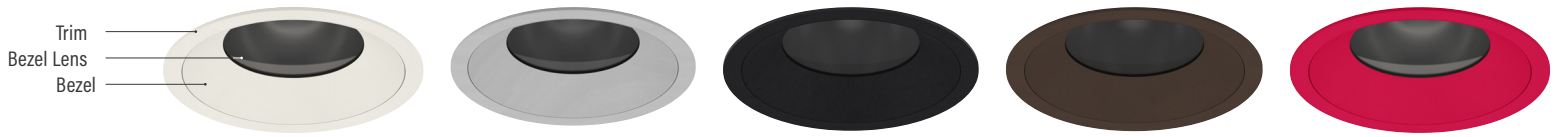
INTENSITY	
DEGREE	CANDELA
0	6507
5	5418
15	1637
25	623
35	388
45	8

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

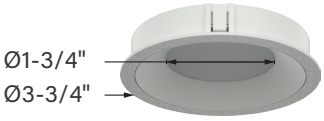
TRIM OPTIONS

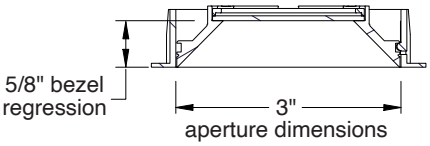
TRIM/BEZEL COLORS

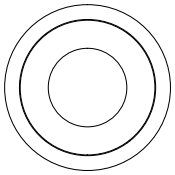


WH MC BK BZ CC

TRIMMED



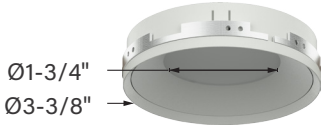


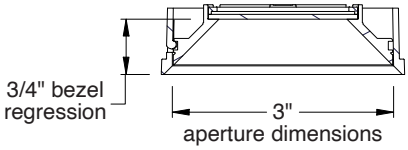


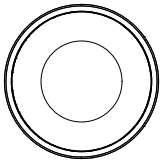
ceiling cutout
3-3/8" diameter

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

MILLWORK



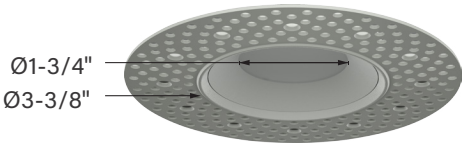


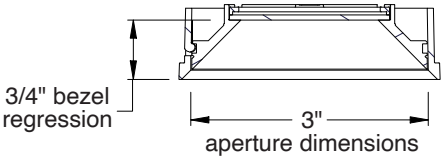


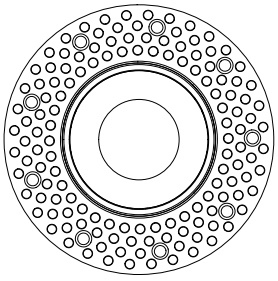
ceiling cutout
3-3/8" diameter

ceiling thickness
1/2" to 1-3/8"

TRIMLESS







ceiling cutout
3-1/2" diameter

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

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.

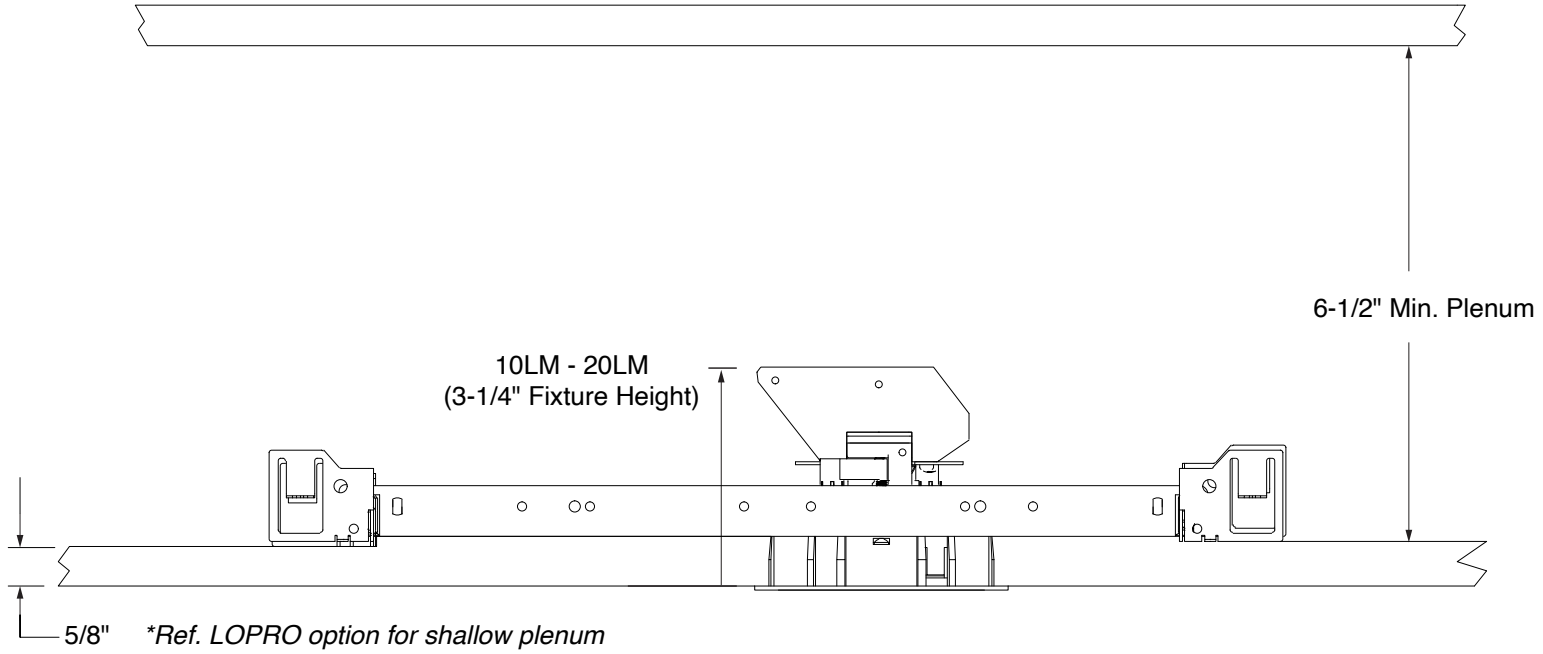
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

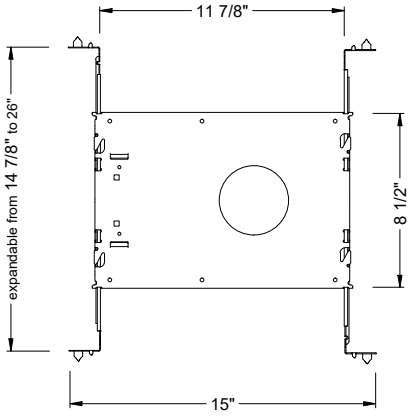
RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✔	✔			
TYPE IC			✔	✔	
CHICAGO PLENUM (CCEA)					✔
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔	✔	✔	✔	✔

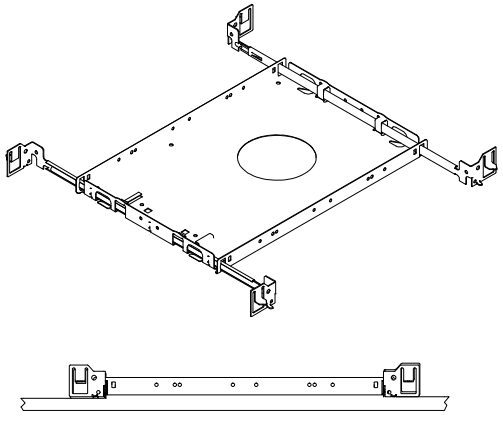
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-1/4"	3-3/8"
TRIMLESS	3/8" to 1-3/8"	3-1/2"
MILLWORK (TRIMLESS)	1/2" to 1-3/8"	3-3/8"

PLENUM HEIGHT



NEW CONSTRUCTION - NC



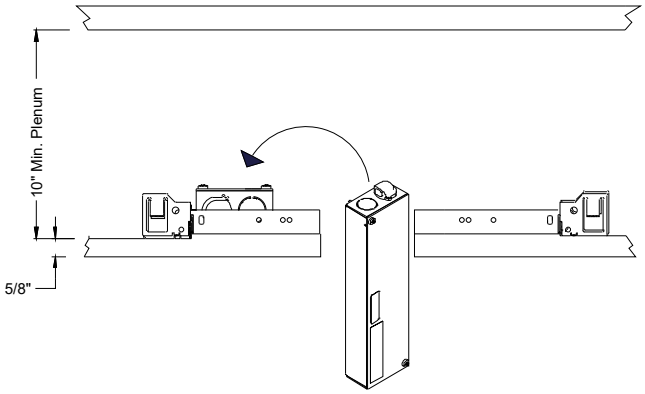


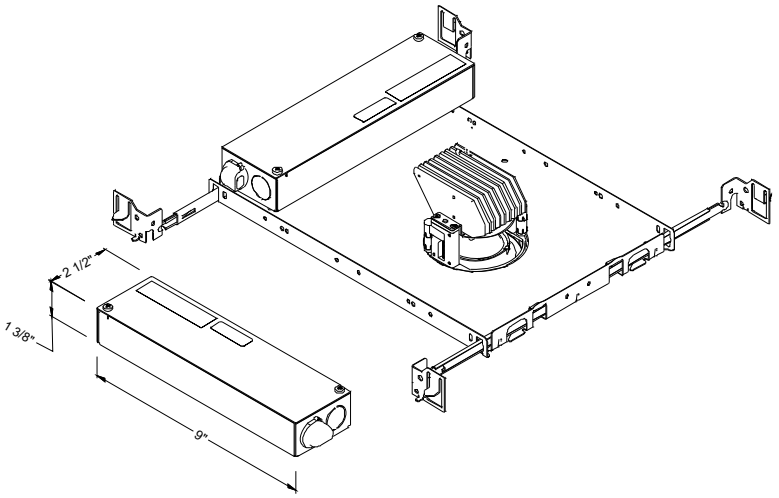
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

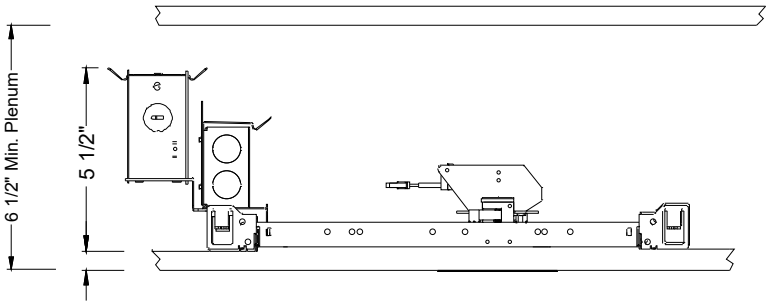
MOUNTING OPTIONS

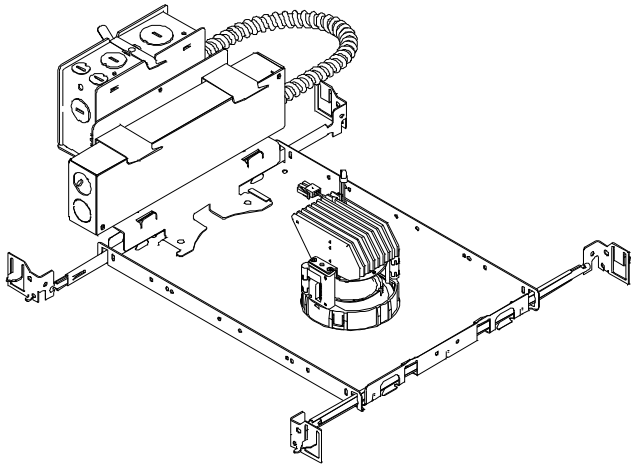
10LM-20LM (DIM10Z / DALIZ-DT6 / DALIZ-DT8) - FLOATING
(BELOW CEILING ACCESSIBLE)





10LM-20LM (DIM10Z / DALIZ - DT6 / DALI - DT8) - FIXED
(ABOVE CEILING ACCESS REQUIRED)

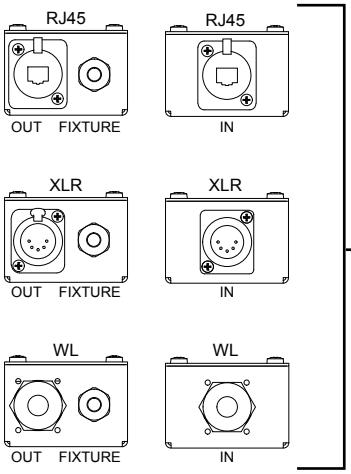


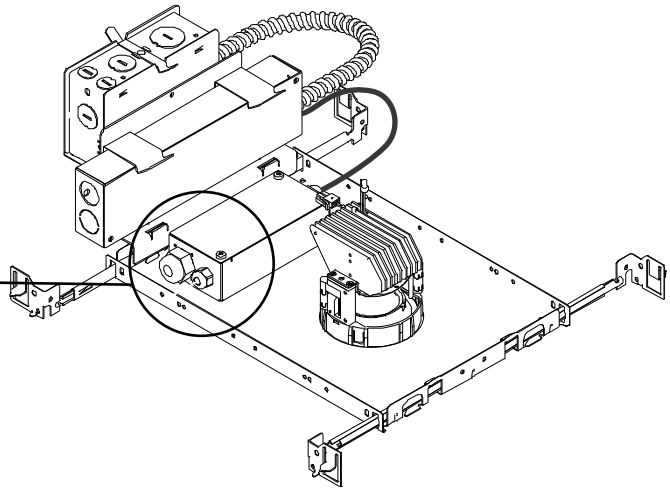


PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

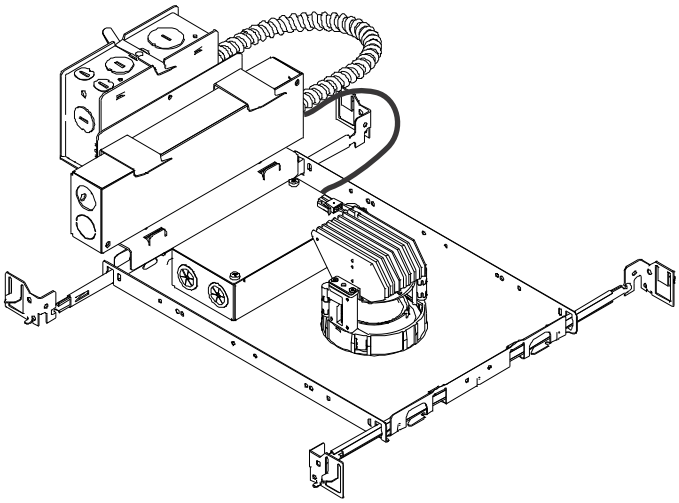
MOUNTING OPTIONS

10LM-20LM (DMX-WL / DMX-XLR / DMX -RJ45) - FIXED
(ABOVE CEILING ACCESS REQUIRED)





10LM-20LM (NLT) - FIXED
(ABOVE CEILING ACCESS REQUIRED)

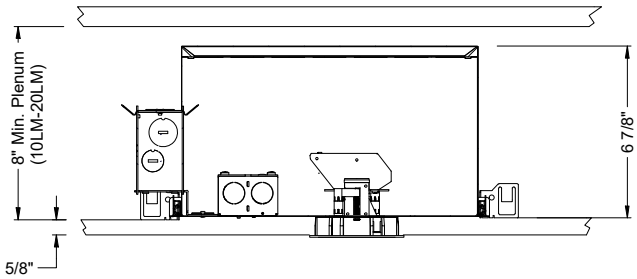


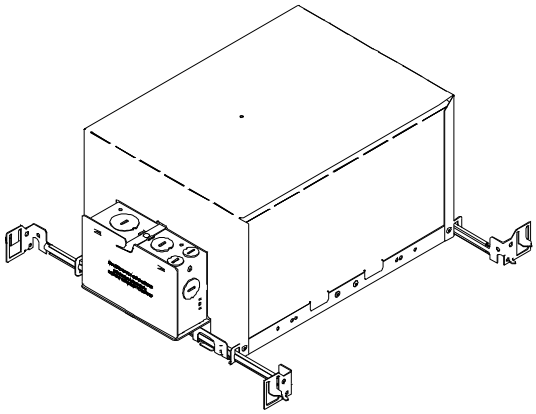
In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

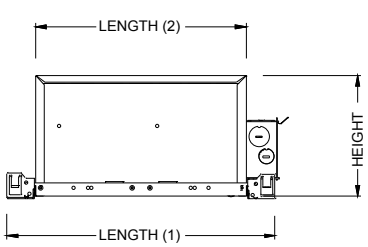
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

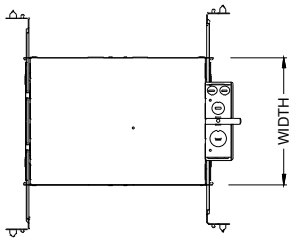
MOUNTING OPTIONS

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









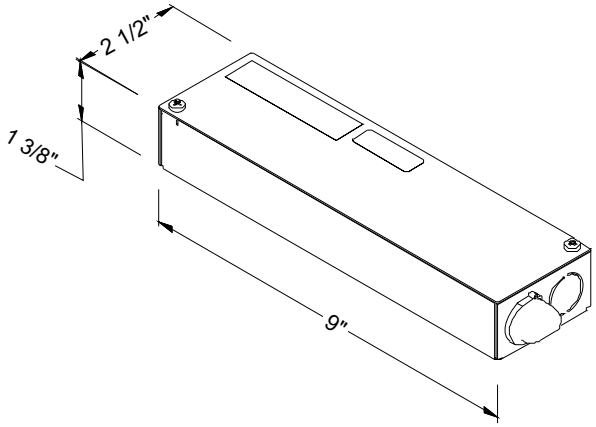
BOX SIZE	L 1	L 2	W	H
A	15 - 7/16"	11 - 3/4"	8 - 1/2"	6 - 3/4"

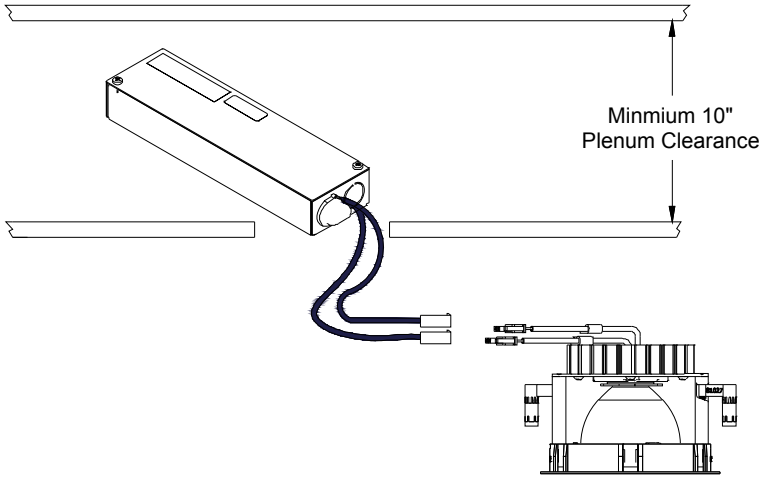
BOX TYPE / LUMEN OUTPUT - STANDARD BEAM (30°-100°)			
LUMEN OUTPUT	BOX-A		
	CP	IC	ICAT
10LM	✔	✔	✔
15LM	✔	✔	✔
20LM	✔	✔	✔

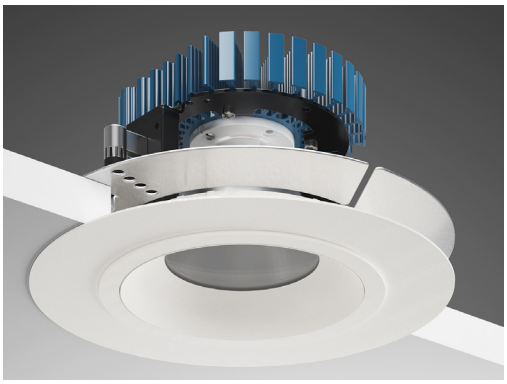
BOX TYPE / LUMEN OUTPUT - NARROW BEAM (20°)			
LUMEN OUTPUT	BOX-A		
	CP	IC	ICAT
10LM	✔	✔	✔
15LM	✔	✔	✔

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

RETRO OPTIONS







NU3 SERIES - Goof Ring, Round

PRODUCT	ROUND CEILING HOLE CUTOUT RANGE[1]	GOOF RING SIZE	ORDERING CODE
NU3-RD NU3-RA NU3-RW	3.38" to 3.88"	OD = 6.0"	GF-3R-1-XX[2]
	3.89" to 4.5"		GF-3R-2-XX[3]
	4.51" to 5.0"		GF-3R-3-XX[3]
	5.01" to 5.5"	OD = 7.0"	GF-3R-4-XX[3]
	5.51" to 6.0"		GF-3R-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-3R-1-WH

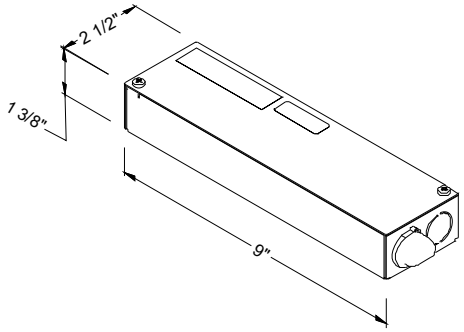
*Accommodates max ceiling thickness up to 1 1/4" for RD, RA and up to 5/8" for RW.

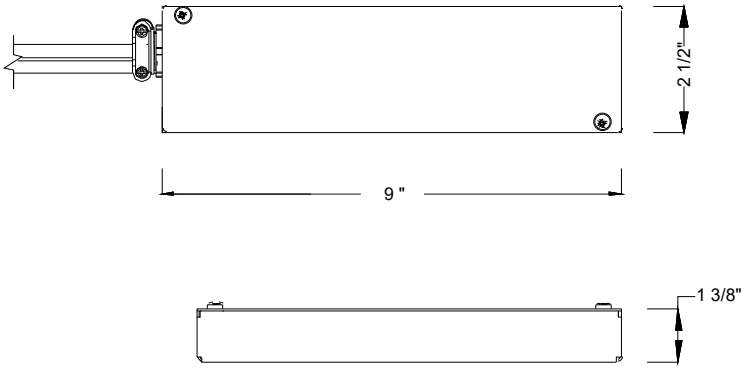
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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

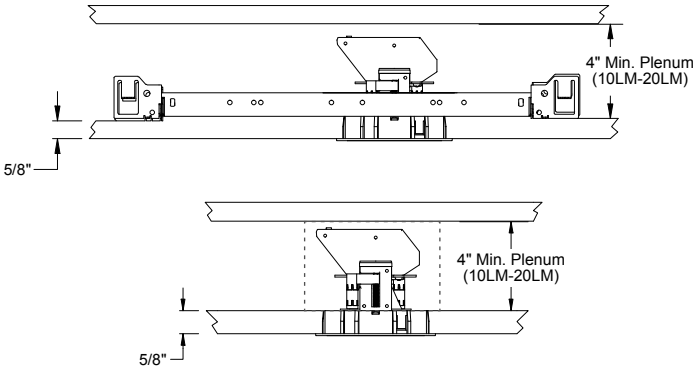




*Remote DX can power LEDs up to 330FT (18 AWG).
Customer will recieve a single remote compact driver per fixture.

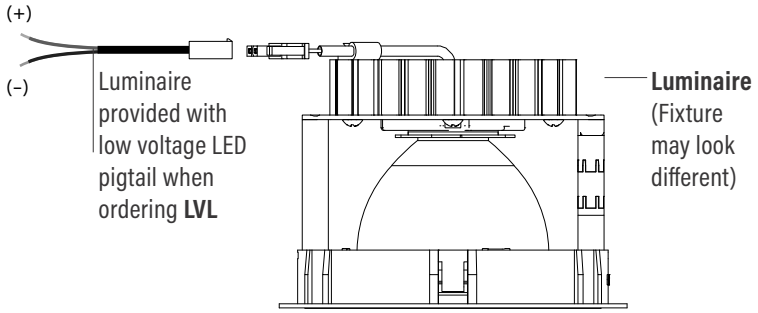
PLENUM HEIGHT

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



NOMINAL LED VOLTAGE: 36VDC

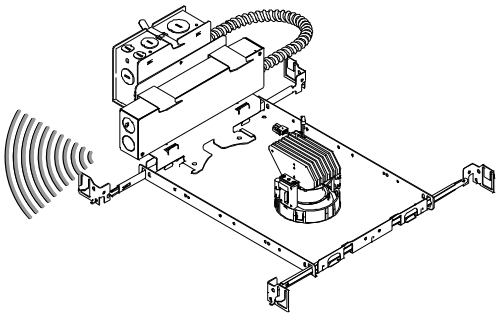
Customer to order CC Remote Driver separately or POE Node by others.



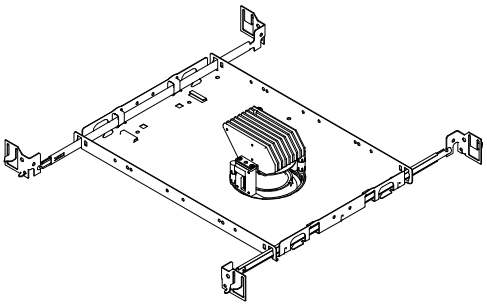
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

WIRELESS OPTIONS

NC - NEW CONSTRUCTION (10LM-20LM)
PLENUM SIDE



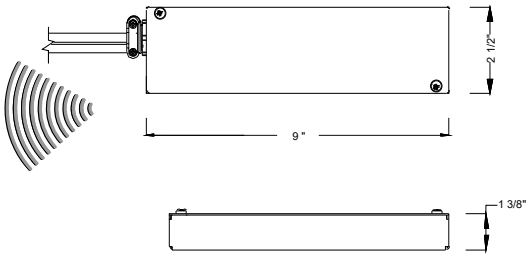
NC - NEW CONSTRUCTION (10LM-20LM)
DX REMOTE



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:
NU3 - RD - TW - 20LM - 2765 - 95 - 55D - NL - WH - WH - NC - UNV - DIM10Z - AWND
NU3 - RD - TW - 20LM - 2765 - 95 - 55D - NL - WH - WH - NC - LVL - DIM10Z - AWND - DX

RET - RETRO 10LM - 20LM
PLENUM SIDE



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