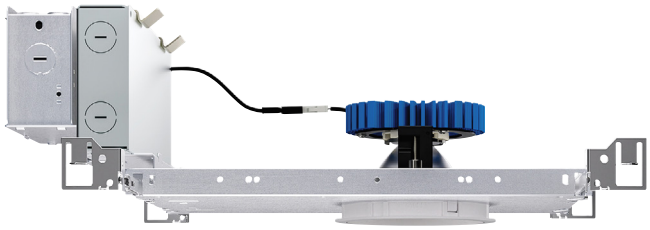
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU4

4" Round Downlight Tunable White

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



20° - 110° BEAM (Note: Specifications are subject to change without notice)		
18mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	**NOMINAL DELIVERED LUMENS**	**SYSTEM WATTAGE**
10LM	1000LM @35K/95CRI	11W
15LM	1480LM @35K/95CRI	15W
20LM	1950LM @35K/95CRI	19W
25LM	2430LM @35K/95CRI	24W
30LM	2920LM @35K/95CRI	28W
35LM	3450LM @35K/95CRI	34W
Notes	Delivered lumens based on 30D optic with no lens, (see page 2)	

FEATURES

- 3/4" bezel regress with 1/16" micro flange
- UGR < 13
- 100 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 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 12)

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 1-3/4"

LED

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

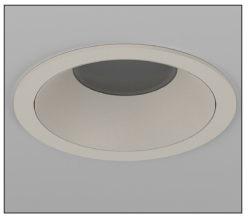
LISTING

- 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

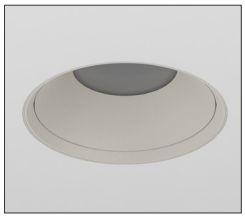
ELECTRICAL

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

TRIM OPTIONS



Trimmed

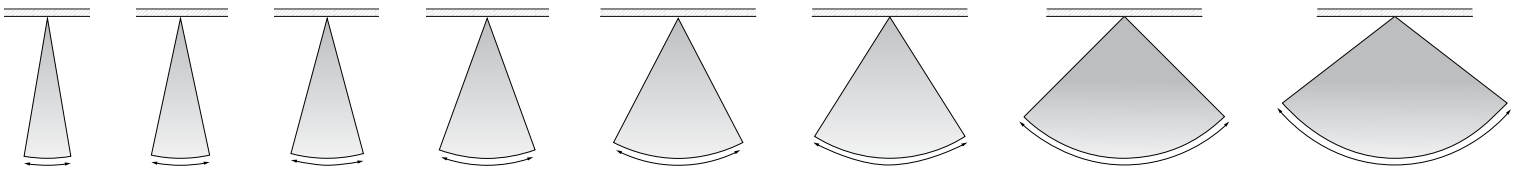


Trimless



Trimless Millwork

BEAM SPREADS



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU4**	NU4
TYPE	**RD**	round downlight
	RDT	round downlight trimless
	RDTMW	round downlight trimless millwork
LED	**TW**	tunable white (Luminus)
DELIVERED LUMENS	**10LM**	1000 lm
	15LM	1480 lm
	20LM	1950 lm
	25LM	2430 lm
	30LM	2920 lm
	35LM	3450 lm
	Standard Configuration: 3500K 95CRI 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	2200K	2400K	2700K	3000K	3500K	4000K	5000K
CCT MULTIPLIER FOR LUMEN OUTPUT	0.84	0.85	0.88	0.9	0.92	0.93	0.96
EML RATIO	0.34	0.54	0.59	0.63	0.78	0.86	0.98

CRI	**95**	95 typical, 90 minimum	
OPTIC & LM MULTIPLIER	**20D**[1]	20 degrees	(1.00)
	25D	25 degrees	(0.99)
	30D	30 degrees	(1.00)
	40D	40 degrees	(0.98)
	55D	55 degrees	(0.99)
	65D	65 degrees	(0.99)
ACCESSORY	**HCL**[2]	honeycomb louver	(0.69)
	Attached to bezel		
BEZEL LENS	**NL**	no lens	(1.00)
	CL	clear lens	(0.95)
	DL	diffused lens	(0.92)
	HET	high efficiency textured lens, similar to Solite™	(0.93)
	SBL	smoothing beam lens	(0.93)
	WDL	wide diffused lens*	(0.90)
	*Wide diffusing lens achieves beams ≥ 90° Ref. page 3		
TRIM COLOR	**BK**	black	
	WH	white	
	MC	matte chrome	
	BZ	bronze	
	CC[3]	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[3]	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
	IC[4]	insulation contact housing
	ICAT[4]	insulation contact/airtight housing
	CP[4]	chicago plenum housing
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%
	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
	WIRELESS (ref. page 12 for available options)	
	REMOTE DX COMPACT DRIVER (ref. page 11 for available options)	

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

NU4 - RD - TW - 20LM - 2765 - 95 - 55D - NL - WH - WH - NC - UNV - DIM10Z

NOTES

1. 20D not available in 30LM & 35LM. 20D Not recommended with DL/E/WDL.
2. HCL not available with lens.
3. Custom set up fee plus minimum quantity required per color.
4. IC/ICAT/CP not available in 30LM & 35LM. 20D optic option with IC/ICAT/CP not available 25LM/30LM/35LM.
5. Available with NC mounting option only.
6. Must select DX dimming with LVL.
7. 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.

* 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

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 15LM fixtures, unless otherwise noted.

HCL
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
20D	19	10.1
25D	25.2	10.2
30D	26.1	10.4
40D	37.1	12.2
55D	52.3	13.6
65D	56.1	15.9

NL
No Lens



OPTIC	BEAM ANGLE	UGR
20D	19	14.7
25D	25.6	15.2
30D	28.1	17.8
40D	42.3	18.5
55D	57.2	19.2
65D	65	19.5

CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
20D	19	13.6
25D	26.8	13.7
30D	28.8	13.8
40D	42.9	15.4
55D	59	16.8
65D	67	19.4

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
25D	43.6	20.2
30D	46.2	20.3
40D	54.4	21.3
55D	62.7	22.2
65D	70	23.8

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D	22	14.2
25D	28.8	14.8
30D	32	15
40D	43.8	16.5
55D	57.4	17.7
65D	64	20.3

WDL
Wide Diffused Lens



OPTIC	BEAM ANGLE	UGR
25D	91	24.9
30D	93	25.1
40D	100	25.8
55D	105	26.5
65D	111	27.3

SBL
Smoothing Beam Lens



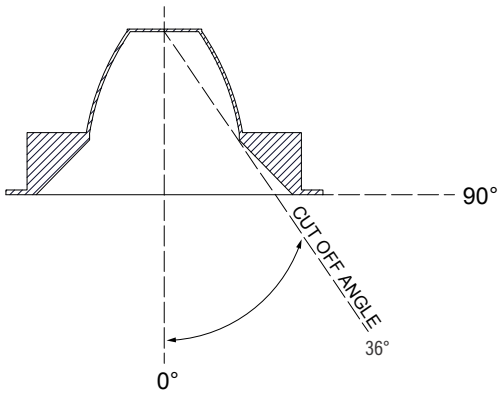
OPTIC	BEAM ANGLE	UGR
20D	20	13.6
25D	27.1	14
30D	29.6	14.1
40D	43.3	15.7
55D	59.7	16.9
65D	66	19.6

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 36 degrees;



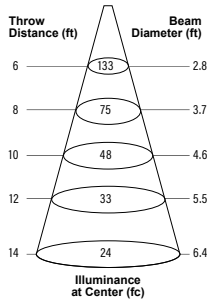
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

15LM

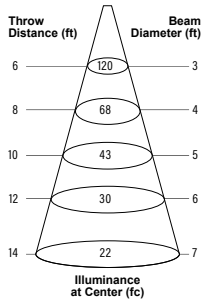
25D-NL 26° WITH NO LENS



WATTS: 15	LPW: 99.3
LUMENS: 1490	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	4771
5	4762
15	1798
25	709
35	294
45	4

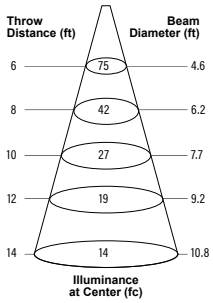
30D-NL 28° WITH NO LENS



WATTS: 15	LPW: 97.5
LUMENS: 1462	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	4334
5	3891
15	1983
25	760
35	278
45	4

40D-NL 42° WITH NO LENS

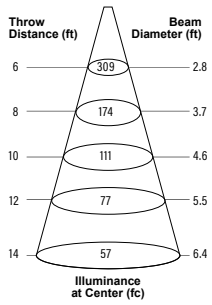


WATTS: 15	LPW: 99
LUMENS: 1485	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	2685
5	2590
15	1919
25	1021
35	341
45	4

35LM

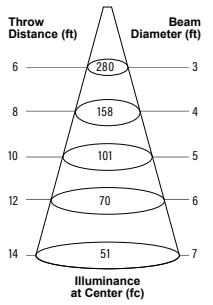
25D-NL 26° WITH NO LENS



WATTS: 34.5	LPW: 100.5
LUMENS: 3466	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	11098
5	11076
15	4182
25	1650
35	684
45	10

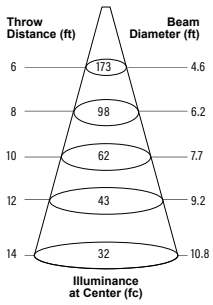
30D-NL 28° WITH NO LENS



WATTS: 34.5	LPW: 98.6
LUMENS: 3401	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	10081
5	9050
15	4612
25	1769
35	647
45	10

40D-NL 42° WITH NO LENS



WATTS: 34.5	LPW: 100.1
LUMENS: 3454	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	6245
5	6024
15	4463
25	2374
35	792
45	10

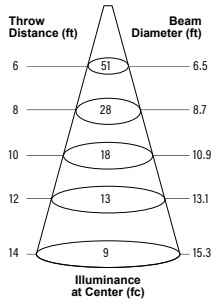
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PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

15LM

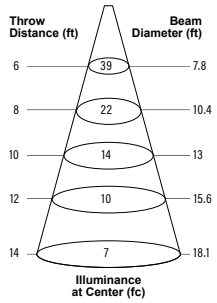
55D-NL 57° WITH NO LENS



WATTS: 15	LPW: 97.6
LUMENS: 1463	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	1777
5	1799
15	1717
25	1147
35	388
45	13

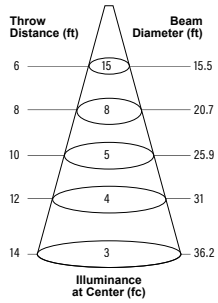
65D-NL 66° WITH NO LENS



WATTS: 15	LPW: 99.4
LUMENS: 1491	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	1402
5	1400
15	1329
25	1072
35	575
45	121

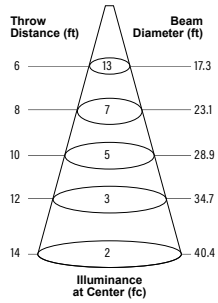
55D-WDL 105° WITH WDL LENS



WATTS: 15	LPW: 89.2
LUMENS: 1338	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	541
5	540
15	534
25	520
35	474
45	371

65D-WDL 111° WITH WDL LENS

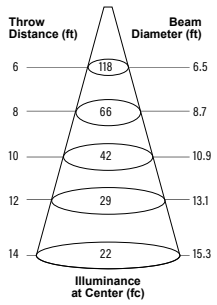


WATTS: 15	LPW: 86.5
LUMENS: 1297	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	479
5	478
15	475
25	466
35	434
45	358

35LM

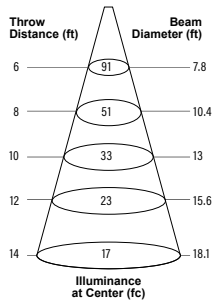
55D-NL 57° WITH NO LENS



WATTS: 34.5	LPW: 98.7
LUMENS: 3404	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	4134
5	4185
15	3994
25	2668
35	903
45	30

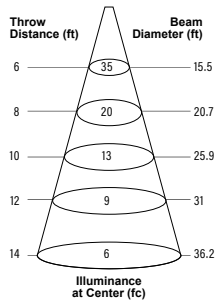
65D-NL 66° WITH NO LENS



WATTS: 34.5	LPW: 100.5
LUMENS: 3468	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	3262
5	3257
15	3091
25	2493
35	1338
45	282

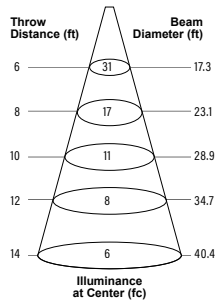
55D-WDL 105° WITH WDL LENS



WATTS: 34.5	LPW: 90.2
LUMENS: 3113	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	1257
5	1255
15	1243
25	1210
35	1103
45	863

65D-WDL 111° WITH WDL LENS



WATTS: 34.5	LPW: 87.5
LUMENS: 3018	CCT: 3500K

INTENSITY	
DEGREE	CANDELA
0	1113
5	1113
15	1105
25	1085
35	1009
45	833

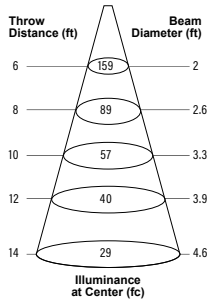
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PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

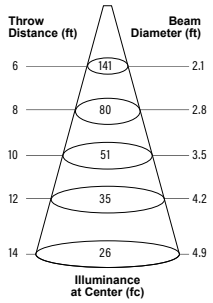
10LM

20D-NL 18.5° WITH NO LENS



WATTS: 12.1	LPW: 87.1
LUMENS: 1054	CCT: 3500K
INTENSITY	
DEGREE	CANDELA
0	5691
5	5432
15	1061
25	421
35	194
45	0

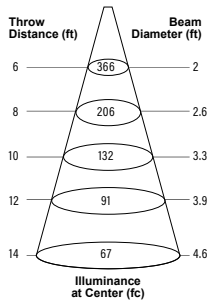
20D-SBL 19.7° WITH SBL LENS



WATTS: 12.1	LPW: 85.4
LUMENS: 1033	CCT: 3500K
INTENSITY	
DEGREE	CANDELA
0	5093
5	4448
15	1090
25	430
35	194
45	17

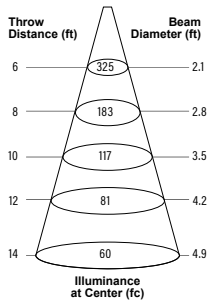
25LM

20D-NL 18.5° WITH NO LENS



WATTS: 28.7	LPW: 84.5
LUMENS: 2425	CCT: 3500K
INTENSITY	
DEGREE	CANDELA
0	13094
5	12498
15	2441
25	968
35	446
45	0

20D-SBL 19.7° WITH SBL LENS



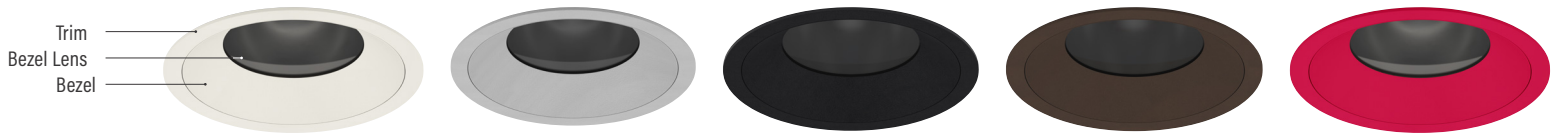
WATTS: 28.7	LPW: 82.8
LUMENS: 2377	CCT: 3500K
INTENSITY	
DEGREE	CANDELA
0	11717
5	10233
15	2507
25	990
35	447
45	40

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

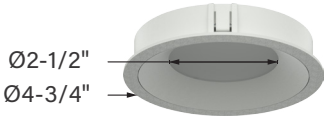
TRIM OPTIONS

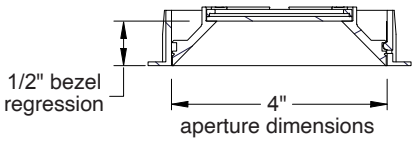
TRIM/BEZEL COLORS

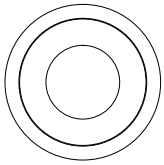


WH MC BK BZ CC

TRIMMED



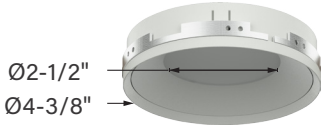


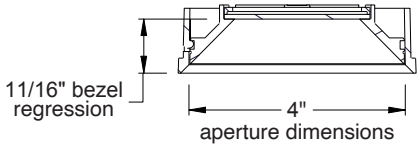


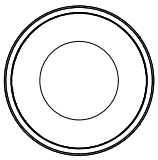
ceiling cutout
4-3/8" diameter

ceiling thickness
1/8" to 1-5/8"

MILLWORK



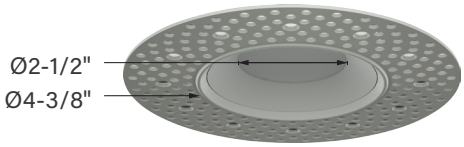


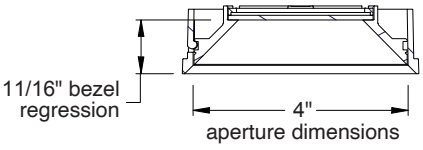


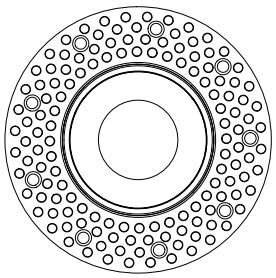
ceiling cutout
4-3/8" diameter

ceiling thickness
1/2" to 1-3/4"

TRIMLESS







ceiling cutout
4-1/2" diameter

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

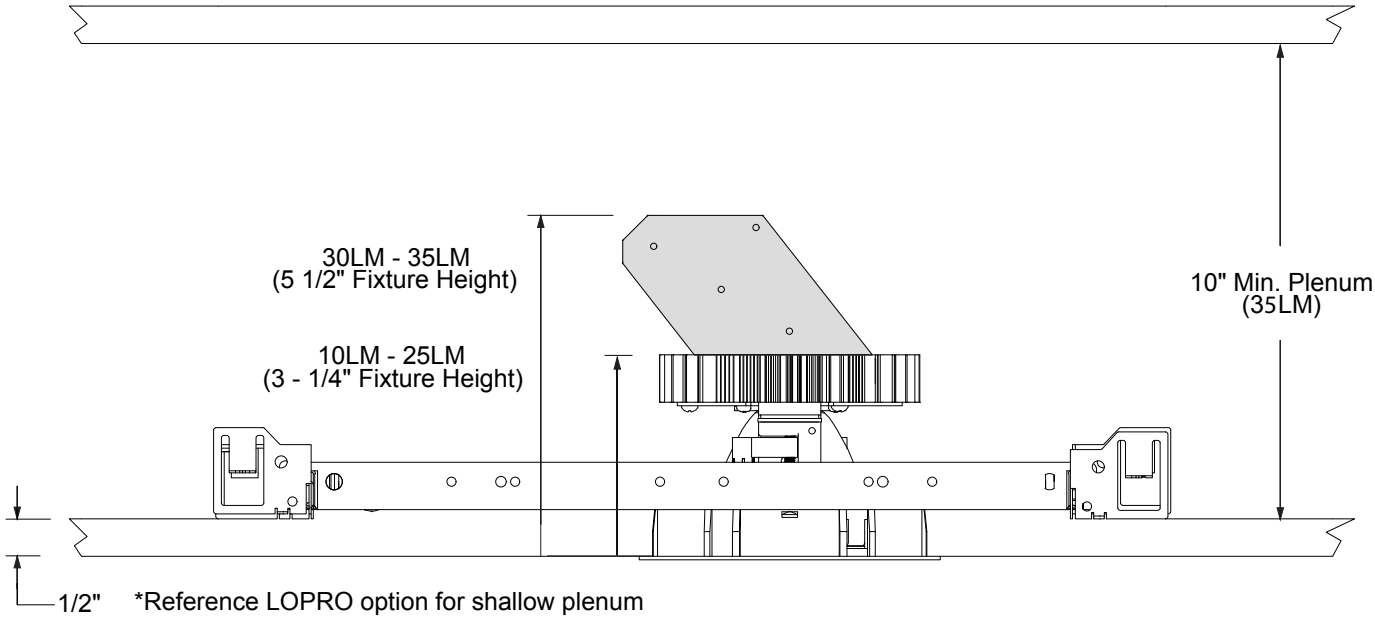
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

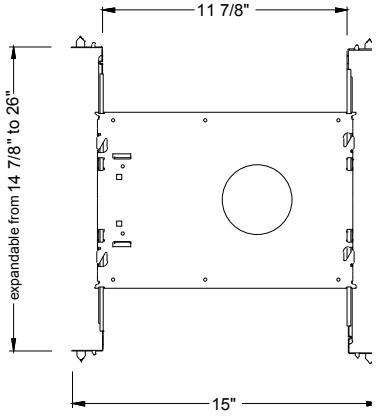
RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✔	✔			
TYPE IC			✔	✔	
CHICAGO PLENUM (CCEA)					✔
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔	✔	✔	✔	✔

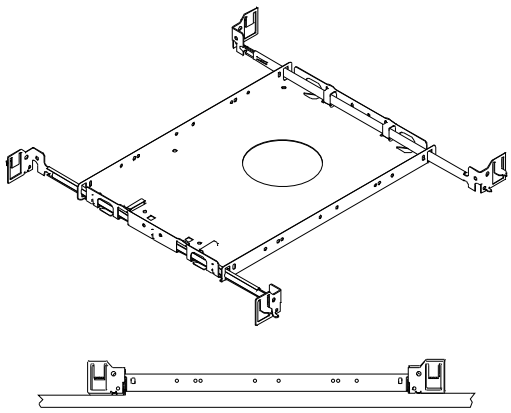
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-5/8"	4-1/2"
TRIMLESS	1/8" to 1-5/8"	4-1/2"
MILLWORK (TRIMLESS)	1/8" to 1-5/8"	4-3/8"

PLENUM HEIGHT



NEW CONSTRUCTION - NC



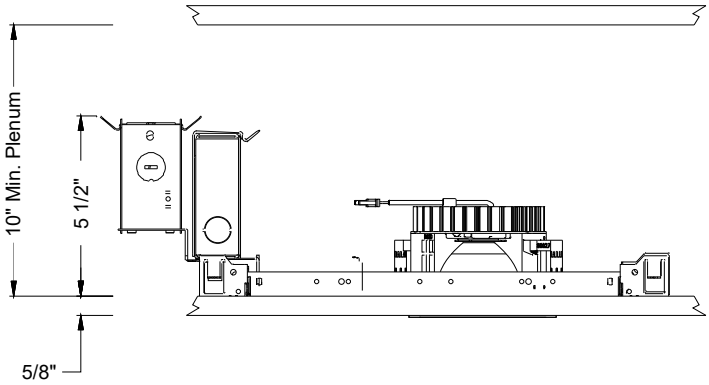


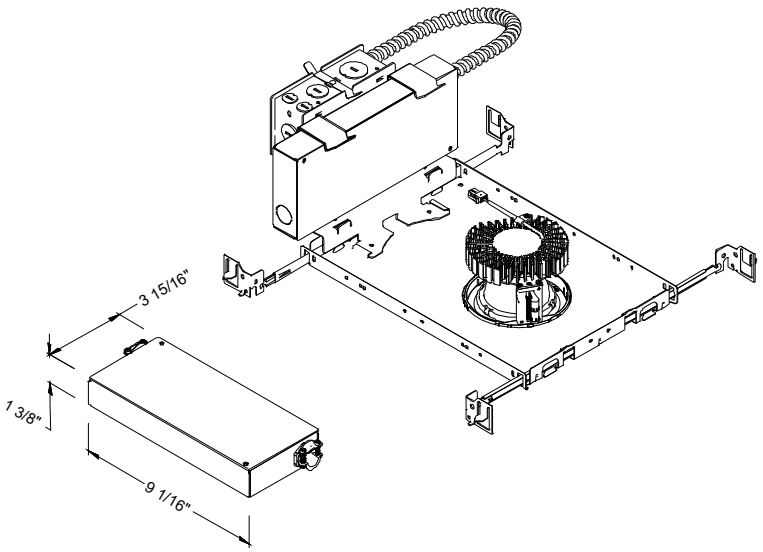
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

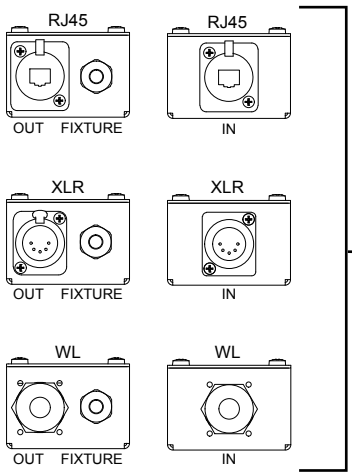
MOUNTING OPTIONS

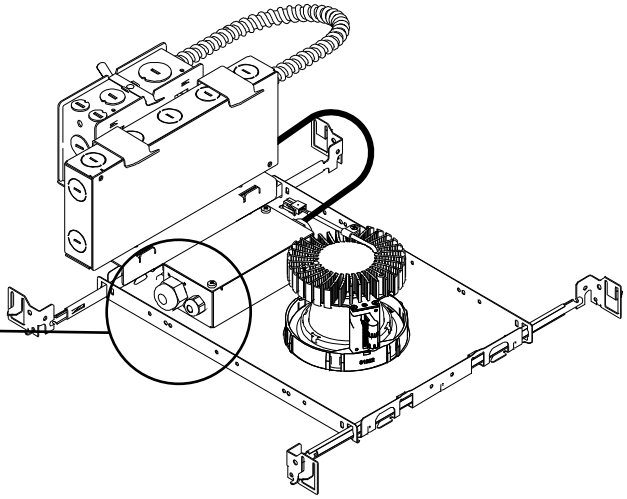
10LM-35LM (DIM10Z / DALIZ-DT6 / DALIZ-DT8)
(BELOW CEILING ACCESSIBLE)



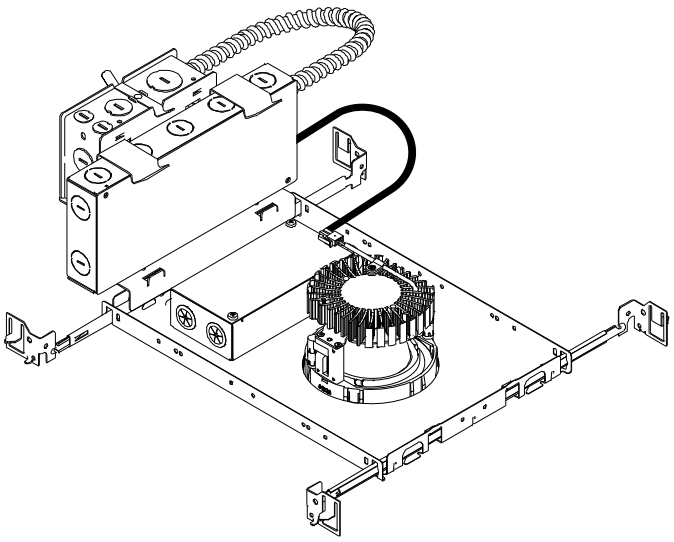


10LM-35LM (DMX-WL / DMX-XLR / DMXZ-RJ45)
(BELOW CEILING ACCESSIBLE)





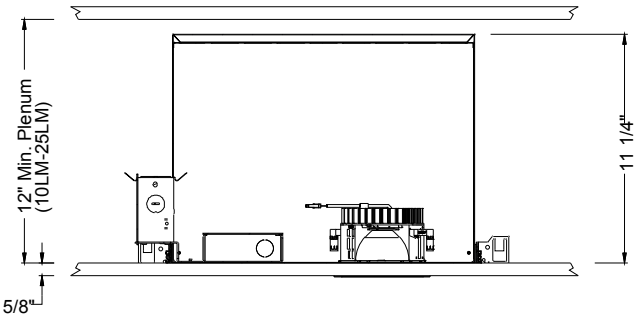
10LM-35LM NLT HOUSING - (NLT)

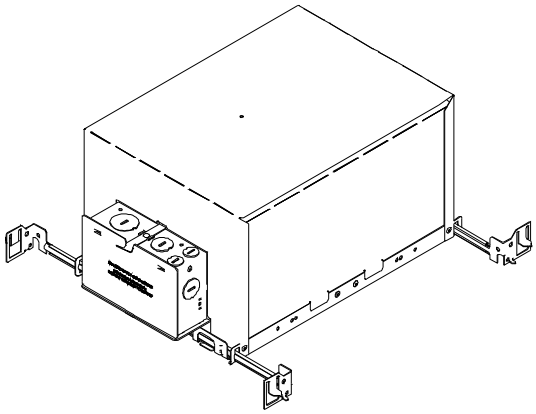


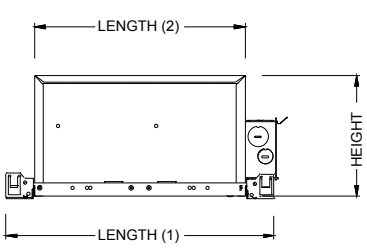
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

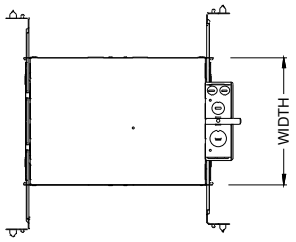
MOUNTING OPTIONS

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"	14 - 7/8"	12 - 1/8"	11 - 1/4"

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (25° - 65°)			
LUMEN OUTPUT	BOX-A		
	IC	ICAT	CP
10LM	✔	✔	✔
15LM	✔	✔	✔
20LM	✔	✔	✔
25LM	✔	✔	✔
30LM			
35LM			

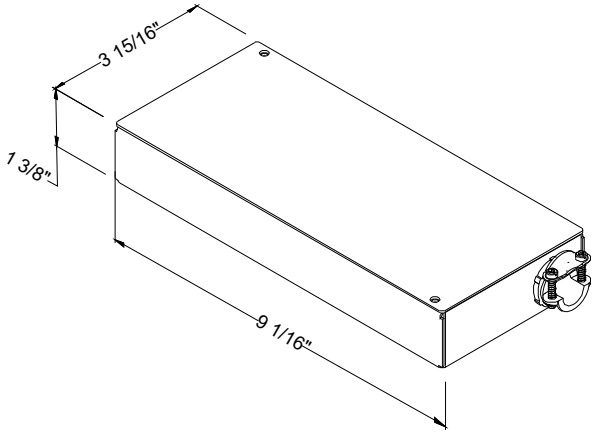
BOX TYPE / LUMEN OUTPUT - NARROW BEAM (20°)			
LUMEN OUTPUT	BOX-A		
	CP	IC	ICAT
10LM	✔	✔	✔
15LM	✔	✔	✔
20LM	✔	✔	✔
25LM			

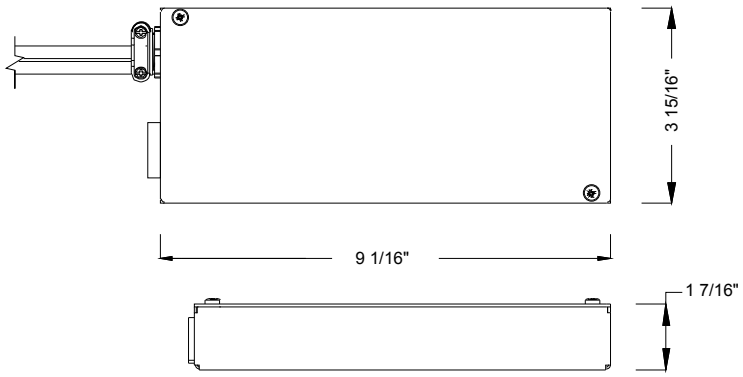
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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

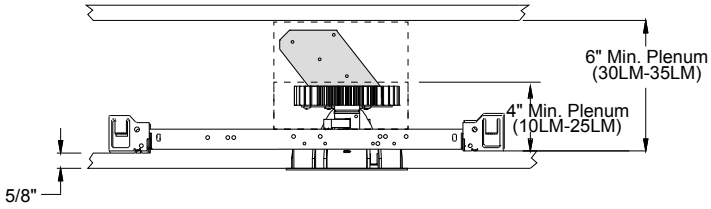




*Remote DX can power LEDs up to 330FT (18 AWG).
Customer will recieve a single remote compact driver per fixture.

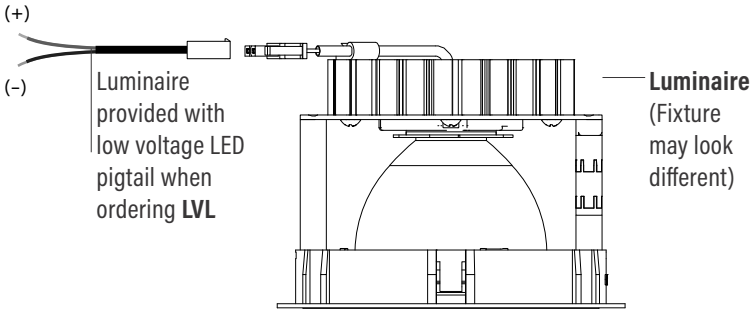
PLENUM HEIGHT

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



NOMINAL LED VOLTAGE: 36VDC

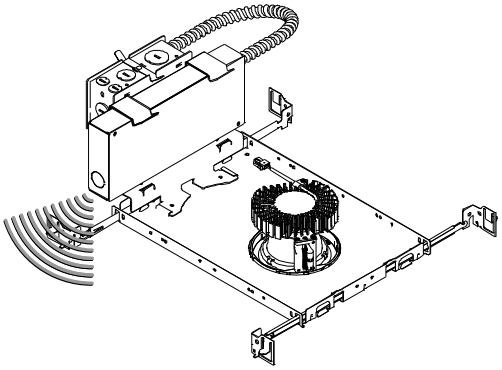
Customer to order CC Remote Driver separately or POE Node by others.



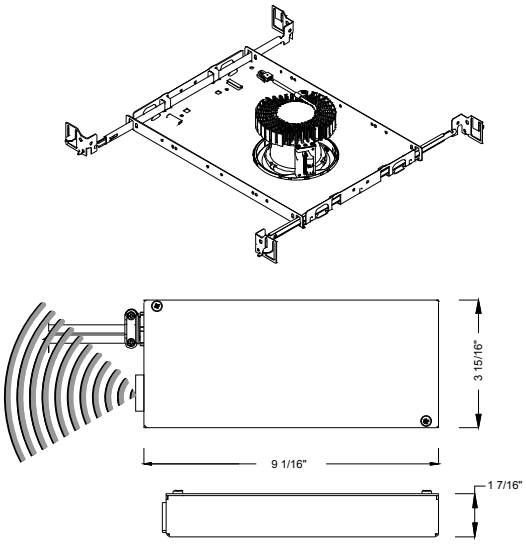
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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).
Remote DX can power LEDs up to 330FT (18 AWG), but adequate wireless signal is customers responsibility.

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