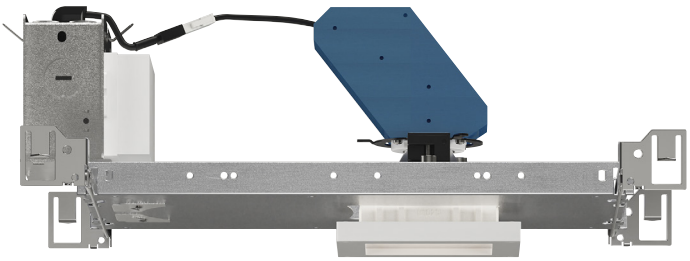
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU3

3" Square Downlight Tamper Resistant Standard White

NSF · AT airtight · DF dead-front · IK10 · wet rated · BABA•BAA



60° -100° BEAM (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	**NOMINAL DELIVERED LUMENS**	**SYSTEM WATTAGE**
10LM	1040LM @30K/90CRI	10W
15LM	1540LM @30K/90CRI	15W
20LM	2010LM @30K/90CRI	20W
25LM	2550LM @30K/90CRI	26W
Notes	Delivered lumens based on WH80 optic, (see page 2)	

FEATURES

- Designed to meet NYS-OMH rigorous requirements
- Tamper resistant, anti-ligature
- K10 impact rated, vandal resistant
- Optical beam control 60° to 100°
- UGR <21
- Microban antimicrobial finish available on all exposed painted surfaces

DIMMING AND CONTROLS

- eldoLED 0-10V, 0.1% and 1%
- BAA – BABA compliant, flicker free 0-10V dim to 1%
- eldoLED DALI, dim to 0.1% and 1%
- Lutron Hi-Lume Ecosystem, dim to 0.1%
- Leading & trailing edge (Triac/ELV), dim to 1%
- Wireless control options, dim to 1% (Ref. page 9)

CONSTRUCTION

- Spun Aluminum 6061 lensing frame
- 18-8 stainless steel tamper resistant screws
- Shatter proof acrylic bezel lens
- Polycarbonate (3mm) shatter resistant lensing
- Electrocoated 16-gauge cold rolled steel construction
- Accommodates ceiling thickness from 1/8" to 1-1/4"
- **CUTOUT DIMENSION:** Tamper - 3-1/4" x 3-1/4"

LED

- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L_{70} > 66,000 hrs

LISTING

- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- 5 Year Limited warranty

ELECTRICAL

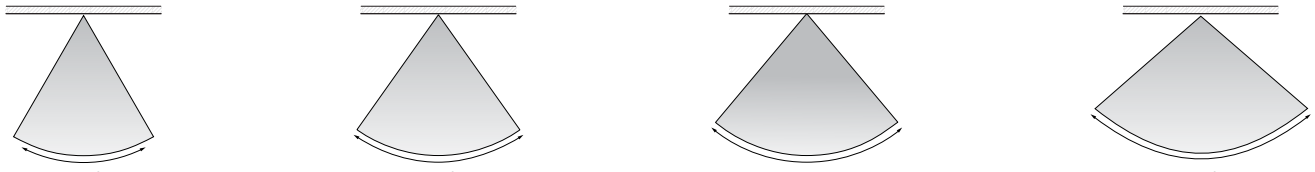
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Max. ambient installation temperature 95°F (35°C)

TRIM OPTION



Tamper Resistant

BEAM SPREADS



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE		
SERIES	NU3	NU3
TYPE	QDTR	square downlight tamper resistant
LED	SW	standard white
DELIVERED LUMENS	10LM	1040 lm
	15LM	1540 lm
	20LM	2010 lm
	25LM	2550 lm
	Standard Configuration: 3000K 90CRI **NL** **Calculated Delivered Lumens =** [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]	
CCT	27K	2700K
	30K	3000K
	35K	3500K
	40K	4000K
CRI	90	90 CRI
OPTIC & LM MULTIPLIER	HE60	60° high efficiency diffused lens (0.98)
	HE80	80° high efficiency diffused lens (0.95)
	D70	70° diffused with clear lens (0.97)
	WH80	80° brilliant white with clear lens (1.00)
	WDL100	100° brilliant white with wide diffused lens (0.94)
TRIM COLOR	BK	black
	WH	white
	MC	matte chrome
	CC[1]	custom color, consult factory for details
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.	
BEZEL COLOR	BK	black (0.98)
	WH	white (1.00)
	MC	matte chrome (0.99)
	CC[1]	custom color, consult factory for details
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.	

CCT	2700K	3000K	3500K	4000K
CRI	90+	90+	90+	90+
CCT MULTIPLIER FOR LUMEN OUTPUT	0.96	1	1.01	1.02

ORDERING CODE		
MOUNTING OPTIONS	NC	new construction plate
VOLTAGE	120	120V
	UNV	120V-277V
	LVL[2]	low voltage luminaire
DIMMING	DIM10	eldoLED flicker free 0-10V dim to 1%
	BDIM10	BAA – BABA compliant, flicker free 0-10V dim to 1%
	DIM10Z	eldoLED flicker free 0-10V dim 0.1%
	DALI	eldoLED flicker free DALI-2 dim to 1%
	DALIZ	eldoLED flicker free DALI-2 dim to 0.1%
	LUTP[3]	Lutron Hi-Lume Eco (fade) dim to 0.1%
	ELV1[4]	leading edge & trailing edge (Triac/ELV) dim to 1%
	ND	no driver included
	WIRELESS (ref. page 9 for available options)	

YOUR COMPLETED ORDERING CODE
Follow the steps to specify your fixture, example:
NU3 - QDTR - SW - 20LM - 30K - 90 - HE60 - WH - WH - NC - UNV - DIM10

NOTES

1. Custom set up fee plus minimum quantity required per color.
2. Must select ND dimming code. For remote driver or POE (by other) Ref page 8
3. LUTP not available in 25LM.
4. ELV1 available in 120V.

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.

CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
D70	70	20.3
WH80	78	23.3

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
HE60	64	21.2
HE80	85	26.1

WDL
Wide Diffused Lens



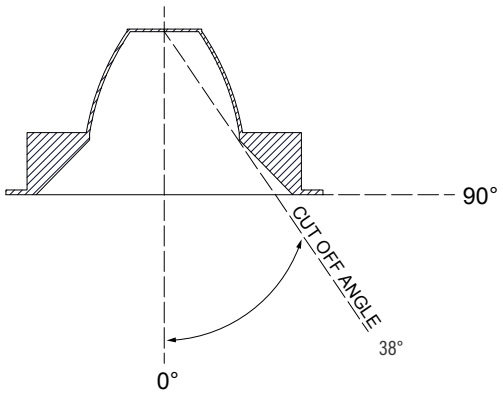
OPTIC	BEAM ANGLE	UGR
WDL100	98	26.3

GLARE CONTROL

CUT-OFF ANGLE

Visual comfort is achieved with a lower cut-off angle due to improved glare control. The smaller the cut-off angle, the easier it is on the eye.
Alphabet downlights have been thoughtfully engineered to eliminate glare while still delivering functional illumination.

- Cutoff angle is 38° degrees;



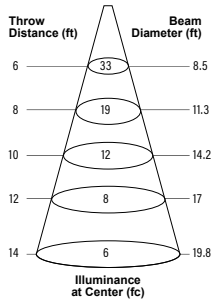
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

15LM CCT MULTIPLIERS	
	90 CRI
2700K	0.96
3000K	1
3500K	1.01
4000K	1.02
FC Formula = CBCP / Distance	

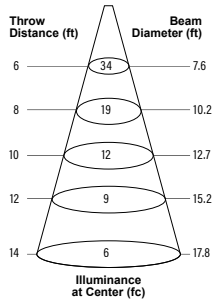
D70
70° DIFFUSED WITH CLEAR LENS



WATTS: 15.1	LPW: 97.5
LUMENS: 1473	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1199
5	1188
15	1095
25	925
35	618
45	152

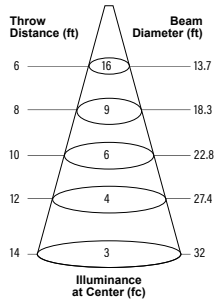
HE60
64° HIGH EFFICIENCY DIFFUSED LENS



WATTS: 15.1	LPW: 94.9
LUMENS: 1434	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1231
5	1211
15	1060
25	824
35	532
45	210

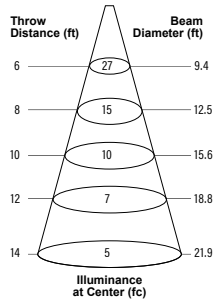
WDL100
98° WIDE DIFFUSED LENS



WATTS: 15.1	LPW: 89.9
LUMENS: 1358	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	585
5	584
15	573
25	550
35	494
45	364

WH80
78° BRILLIANT WHITE WITH CLEAR LENS

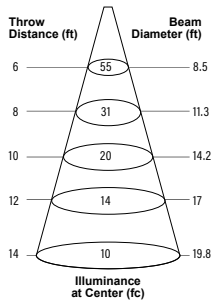


WATTS: 15.1	LPW: 101.8
LUMENS: 1537	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	969
5	967
15	940
25	873
35	649
45	225

25LM CCT MULTIPLIERS	
	90 CRI
2700K	0.96
3000K	1
3500K	1.01
4000K	1.02
FC Formula = CBCP / Distance	

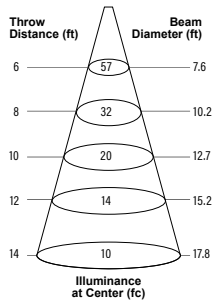
D70
70° DIFFUSED WITH CLEAR LENS



WATTS: 26.3	LPW: 92.9
LUMENS: 2443	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1990
5	1971
15	1816
25	1535
35	1025
45	253

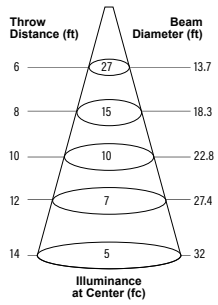
HE60
64° HIGH EFFICIENCY DIFFUSED LENS



WATTS: 26.3	LPW: 90.4
LUMENS: 2378	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	2043
5	2009
15	1758
25	1367
35	883
45	349

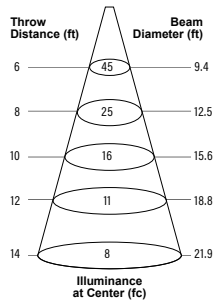
WDL100
98° WIDE DIFFUSED LENS



WATTS: 26.3	LPW: 85.6
LUMENS: 2252	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	971
5	969
15	951
25	913
35	819
45	604

WH80
78° BRILLIANT WHITE WITH CLEAR LENS



WATTS: 26.3	LPW: 96.9
LUMENS: 2550	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1608
5	1604
15	1559
25	1448
35	1077
45	374

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

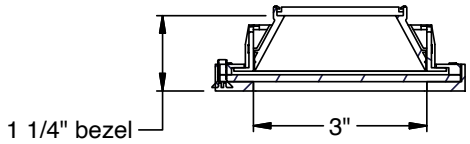
TRIM/BEZEL COLORS



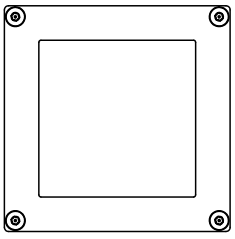
WH MC BK CC

TAMPER RESISTANT





aperture dimensions



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

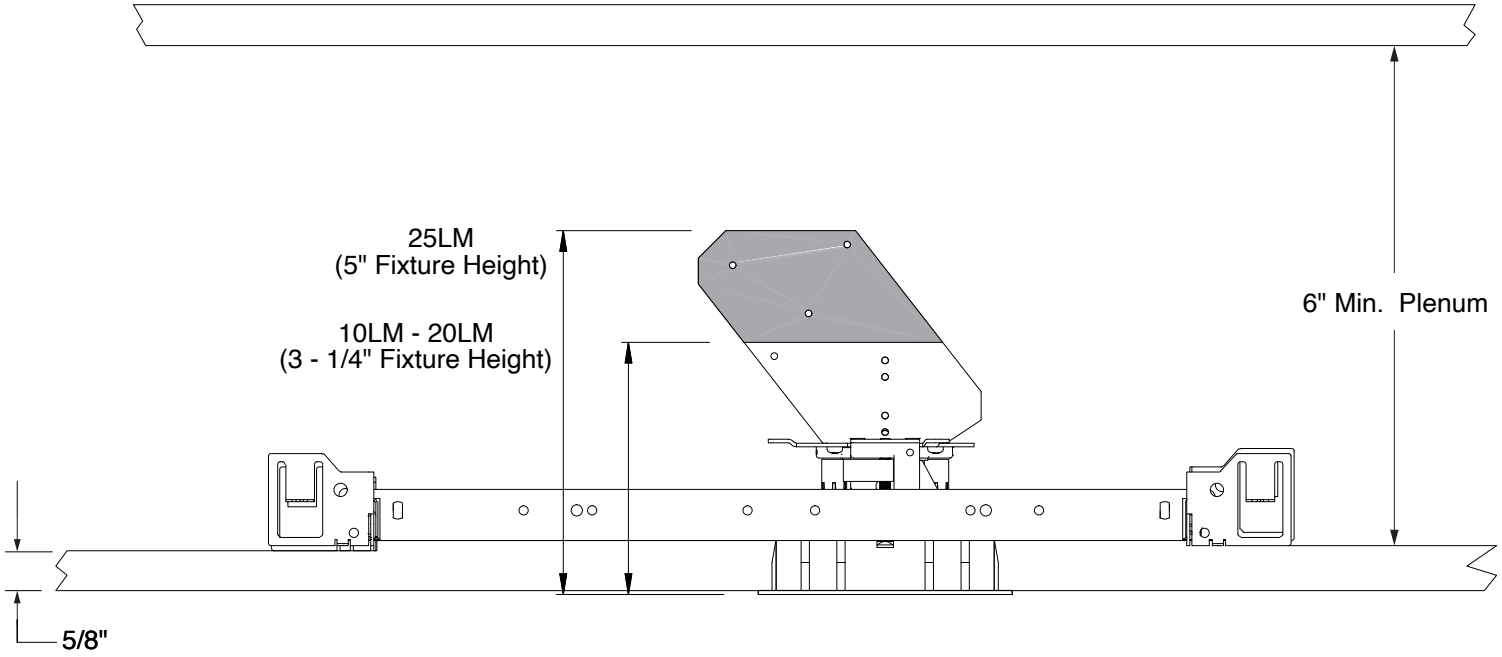
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

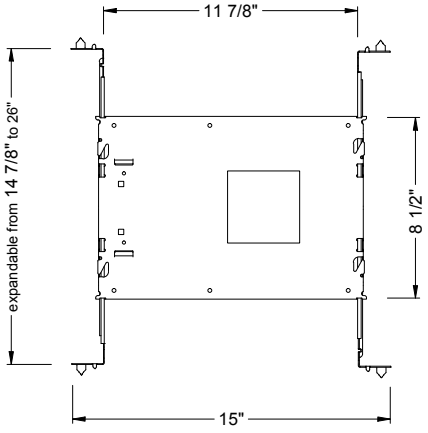
RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✔	✔			
TYPE IC			✔	✔	
CHICAGO PLENUM (CCEA)					✔
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔	✔	✔	✔	✔

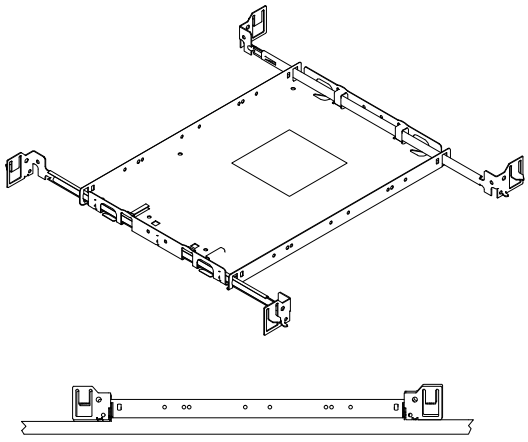
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-1/4"	3-1/4" Square

PLENUM HEIGHT



NEW CONSTRUCTION - NC



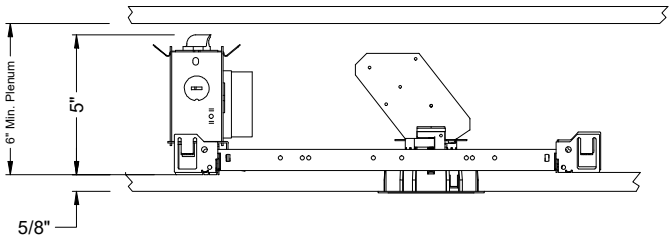


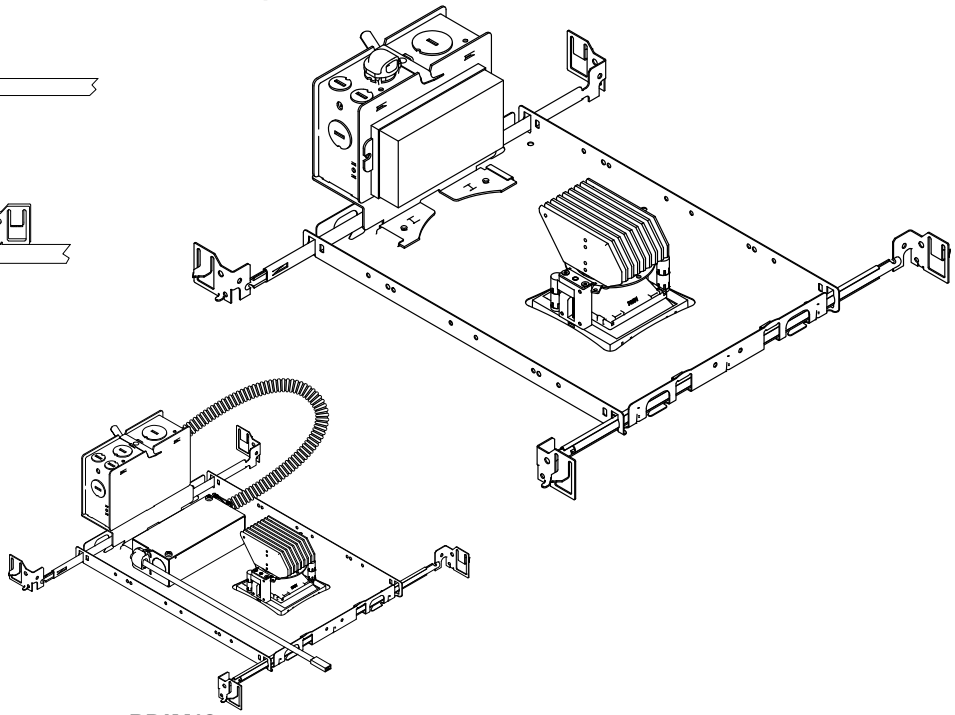
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

10LM-25LM (DIM10 / BDIM10 / DIM10Z / DALI / DALIZ / ELV1 / LUTP)





BDIM10

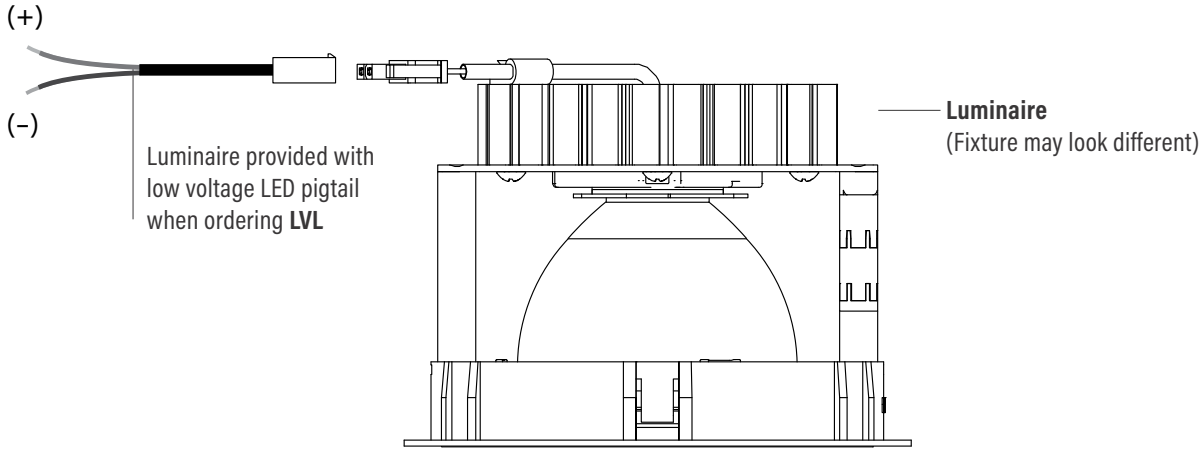
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

LOW VOLTAGE OPTIONS

60° -100° BEAM (Note: Specifications are subject to change without notice)			
14mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	1040LM @30K/90CRI	250mA	9W
15LM	1540LM @30K/90CRI	375mA	13.5W
20LM	2010LM @30K/90CRI	500mA	18W
25LM	2550LM @30K/90CRI	650mA	23.5W
Notes	Delivered lumens based on WH80 optic, (see page 2)		

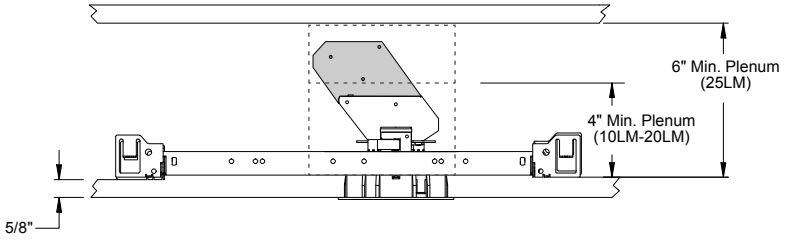
NOMINAL LED VOLTAGE: 36VDC

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



PLENUM HEIGHT

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



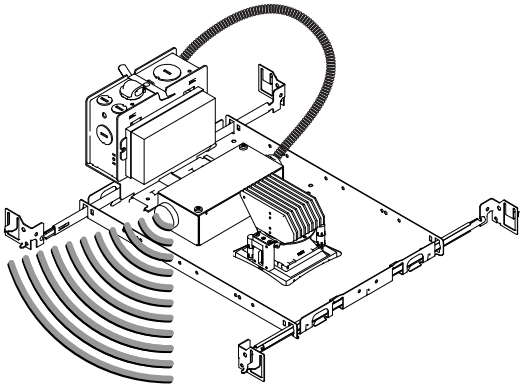
**Ref. DX panel specification sheet for remote driver options.*

alphabet

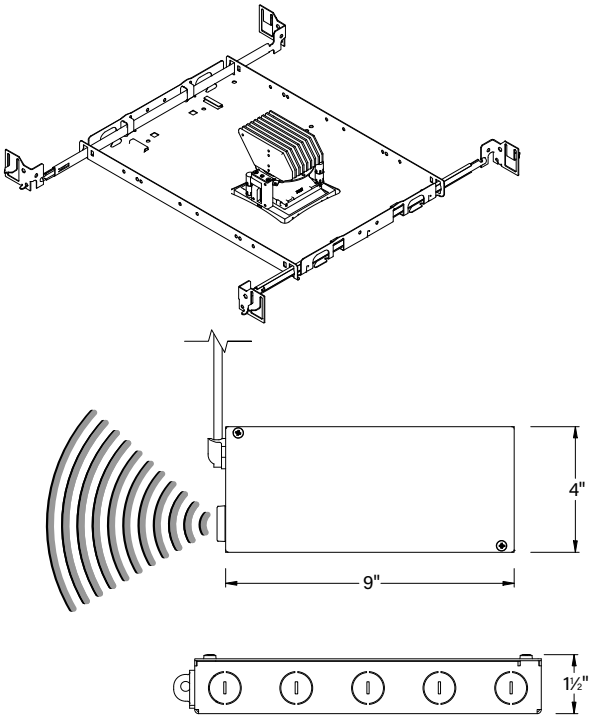
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

WIRELESS OPTIONS

NC - NEW CONSTRUCTION
PLENUM SIDE



NC - NEW CONSTRUCTION
DX REMOTE



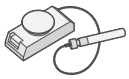
Customer must verify system design and installation with their controls provider (e.g., Lutron).
Wireless signal strength, reliability, performance, and commissioning are the responsibility of the customer. Remote DX can power LEDs up to 330FT (18 AWG), but adequate wireless signal is customers responsibility.

---

nLIGHT

ORDERING CODE

NLTA ..... nlight air wireless device (0-10V Driver) - integrated / above ceiling
NLTA-DX ... nlight air wireless device (0-10V Driver) - remote DX Compact Driver



MODEL NUMBER

nlight air model #: RIO-ZT-180D-G2

POWER SUPPLY

(0-10V Driver): ELDOled 0-10V Optotronic LED driver with Aux Power, Dim-to-off

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LUTRON Athena

ORDERING CODE

AWN ..... athena wireless node (0-10V Driver) - integrated / above ceiling
AWN-DX ... athena wireless node (0-10V Driver) - remote DX Compact Driver
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

(0-10V Driver): ELDOled 0-10V Optotronic LED driver with Aux Power, Dim-to-off
(DALI2 Driver): Moons D4i DALI2 LED driver with DALI Bus Power, Dim-to-off

---

legrand WATTSTOPPER® PLUS

ORDERING CODE

CLM ..... connected lighting module (0-10V Driver) - integrated / above ceiling
CLM-DX .... connected lighting module (0-10V Driver) - remote DX Compact Driver
CLMD ..... connected lighting module (DALI2 Driver) - integrated / above ceiling



MODEL NUMBER

CLM model #: ZBHA-CLM-DIM

POWER SUPPLY

(0-10V Driver): ELDOled 0-10V Optotronic LED driver with Aux Power, Dim-to-off
(DALI2 Driver): Moons D4i DALI2 LED driver with DALI Bus Power, Dim-to-off

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CASAMBI

ORDERING CODE

CAS ..... Casambi wireless controller (0-10V Driver) - integrated / above ceiling
CAS-DX .... Casambi wireless controller (0-10V Driver) - remote DX Compact Driver



MODEL NUMBER

Casambi model #: CBU-ARP-LR

POWER SUPPLY

(0-10V Driver): ELDOled 0-10V Optotronic LED driver with Aux Power, Dim-to-off

101454