alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

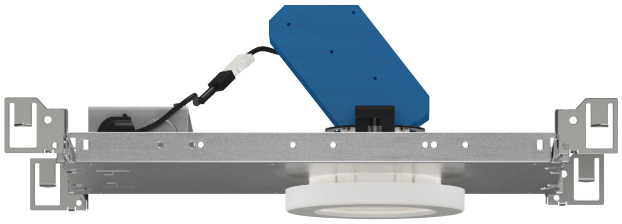
NU3

3" Round Downlight Tamper Resistant Standard White

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

20° - 105° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	1010LM @30K/90CRI	10W
15LM	1510LM @30K/90CRI	15W
20LM	2060LM @30K/90CRI	21W
25LM	2600LM @30K/90CRI	29W
Notes	Delivered lumens based on 20° optic with no lens, (see page 2)	

15° BEAM (Note: Specifications are subject to change without notice)		
6mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	1080LM @30K/90CRI	12W
15LM	1470LM @30K/90CRI	18W
Notes	Delivered lumens based on 15° optic with no lens, (see page 2)	



FEATURES

- Designed to meet NYS-OMH rigorous requirements
- Tamper resistant, anti-ligature
- IK10 impact rated, vandal resistant
- 15° to 55° optical beam control
- UGR<17
- 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 10)

CONSTRUCTION

- Spun Aluminum 6061 lensing frame
- 18-8 stainless steel tamper resistant screws
- 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 - 3-3/8"

LED

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

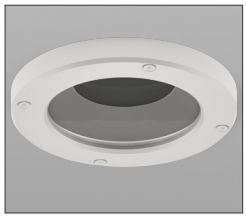
LISTING

- 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

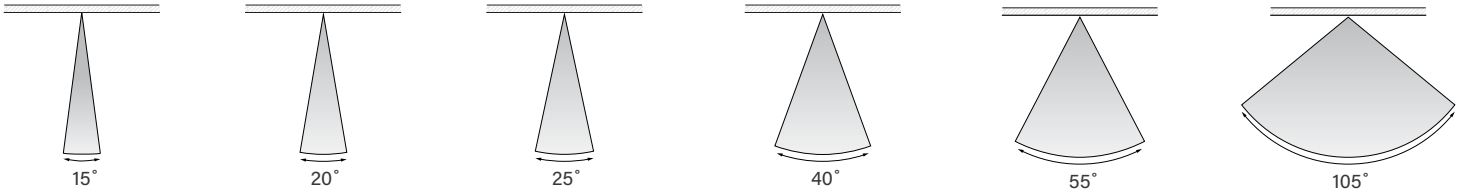
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Max. ambient installation temperature 95°F (35°C)

TRIM OPTION



Trimmed

BEAM SPREADS



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU3**	NU3	
TYPE	**RDTR**	round downlight tamper resistant	
LED	**SW**	standard white	
DELIVERED LUMENS	**10LM**	1010 lm	
	15LM	1510 lm	
	20LM	2060 lm	
	25LM	2600 lm	
	Standard Configuration: 3000K 90CRI **CL**		
	Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Optic Multiplier] x [Lens Multiplier]		
CCT	**27K**	2700K	
	30K	3000K	
	35K	3500K	
	40K	4000K	

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

CRI	**90**	90 CRI	
OPTIC & LM MULTIPLIER	**15D**[1]	15 degrees	(0.98)
	20D	20 degrees	(1.00)
	25D	25 degrees	(0.99)
	40D	40 degrees	(0.99)
	55D	55 degrees	(0.97)
BEZEL LENS	**CL**	clear lens	(0.97)
	DL	diffused lens	(0.85)
	HET	high efficiency textured lens, similar to Solite™	(0.96)
	SBL	smoothing beam lens	(0.96)
	WDL	wide diffused lens*	(0.90)
	*Wide diffusing lens achieves beams ≥ 90° Ref. page 3		
TRIM COLOR	**BK**	black	
	WH	white	
	MC	matte chrome	
	CC[2]	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)
	CC[2]	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
VOLTAGE	**120**	120V
	UNV	120V-277V
	LVL[3]	low voltage luminaire
DIMMING	**DIM10**	eldoLED flicker free 0-10V dim to 1%
	BDIM10[4]	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[5]	Lutron Hi-Lume Eco (fade) dim to 0.1%
	ELV1[6]	leading edge & trailing edge (Triac/ELV) dim to 1%
	ND	no driver included
WIRELESS	(ref. page 10 for available options)	

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

NU3 - RDTR - SW - 15LM - 30K - 90 - 20D - CL - WH - WH -NC -UNV - DIM10

NOTES

1. 15D available in 10LM/15LM.
2. Custom set up fee plus minimum quantity required per color.
3. Must select ND dimming code. For remote driver or POE (by other) Ref page 9
4. BDIM10 not available in 25LM
5. LUTP not available in 25LM
6. 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
15D	14.4	<10
20D	22	<10
25D	25	<10
40D	39	<10
55D	56	<10

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
20D	40	16.2
25D	45	16.3
40D	52	17.2
55D	59	18.4

HET
High Efficiency Textured Lens



	BEAM ANGLE	UGR
15D	20	11.8
20D	24	13.3
25D	27	14.9
40D	39	14.5
55D	50	14.6

WDL
Wide Diffused Lens



OPTIC	BEAM ANGLE	UGR
20D	92	23.1
25D	94	23.4
40D	98	24.6
55D	104	25.9

NL
No Lens



OPTIC	BEAM ANGLE	UGR
15D	15	<10
20D	21	<10
25D	24	<10
40D	39	<10
55D	55	<10

SBL
Smoothing Beam Lens



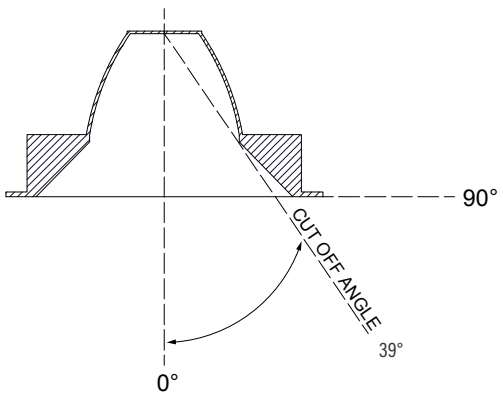
OPTIC	BEAM ANGLE	UGR
15D	16	<10
20D	22	13.1
25D	27	14.9
40D	40	14.1
55D	56	14.2

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 39° degrees;



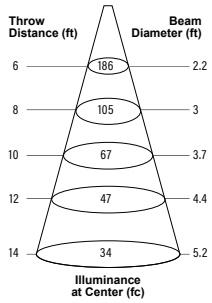
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

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

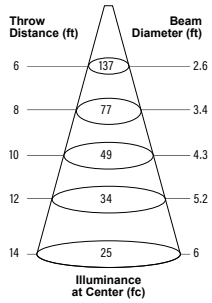
20D 21° NO LENS



WATTS: 14.78	LPW: 102
LUMENS: 1507	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	6701
5	5760
15	1698
25	609
35	365
45	18

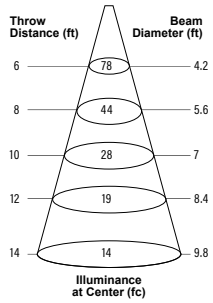
25D 25° NO LENS



WATTS: 14.78	LPW: 102.4
LUMENS: 1514	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	4948
5	4334
15	1818
25	792
35	366
45	14

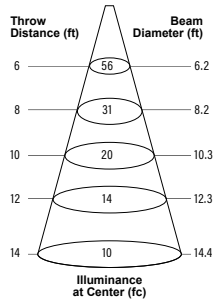
40D 39° NO LENS



WATTS: 14.78	LPW: 101.5
LUMENS: 1499	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	2803
5	2716
15	1864
25	948
35	420
45	21

55D 55° NO LENS

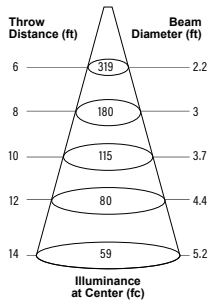


WATTS: 14.78	LPW: 100.3
LUMENS: 1482	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	2015
5	1979
15	1708
25	1147
35	421
45	23

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

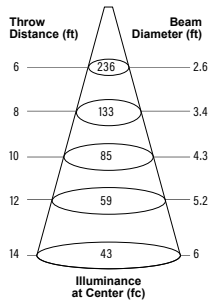
20D 21° NO LENS



WATTS: 29.2429	LPW: 88.4
LUMENS: 2584	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	11488
5	9875
15	2911
25	1043
35	626
45	31

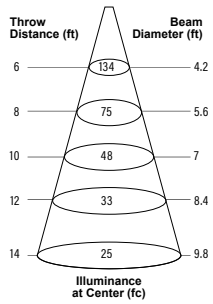
25D 25° NO LENS



WATTS: 29.2429	LPW: 88.8
LUMENS: 2595	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	8484
5	7431
15	3117
25	1357
35	628
45	25

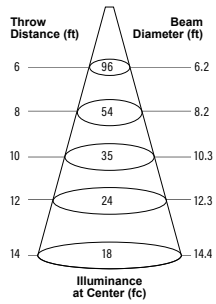
40D 39° NO LENS



WATTS: 29.2429	LPW: 87.9
LUMENS: 2571	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	4807
5	4656
15	3196
25	1625
35	720
45	37

55D 55° NO LENS



WATTS: 29.2429	LPW: 86.9
LUMENS: 2541	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	3455
5	3392
15	2929
25	1966
35	721
45	40

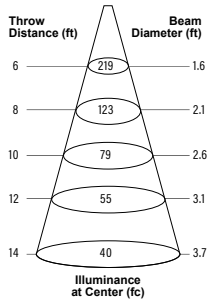
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

10LM CCT MULTIPLIERS	
	90CRI
2700K	0.96
3000K	1
3500K	1.01
4000K	1.02
FC Formula = CBCP / Distance	

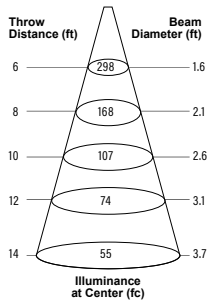
15D
15° NO LENS



WATTS: 12.2	LPW: 88.6
LUMENS: 1081	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	7867
5	5601
15	945
25	394
35	309
45	0

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

15D
15° NO LENS



WATTS: 18	LPW: 81.8
LUMENS: 1473	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	10720
5	7633
15	1287
25	537
35	422
45	0

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

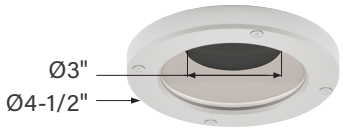
TRIM OPTIONS

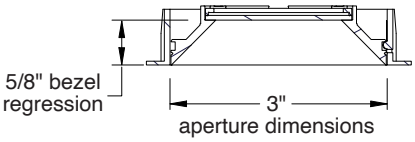
TRIM/BEZEL COLORS

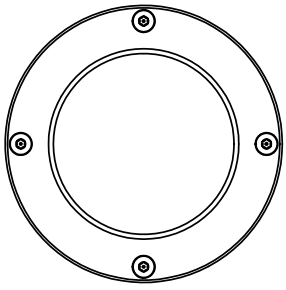


WH MC BK CC

TAMPER RESISTANT







ceiling cutout
3-3/8" diameter

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

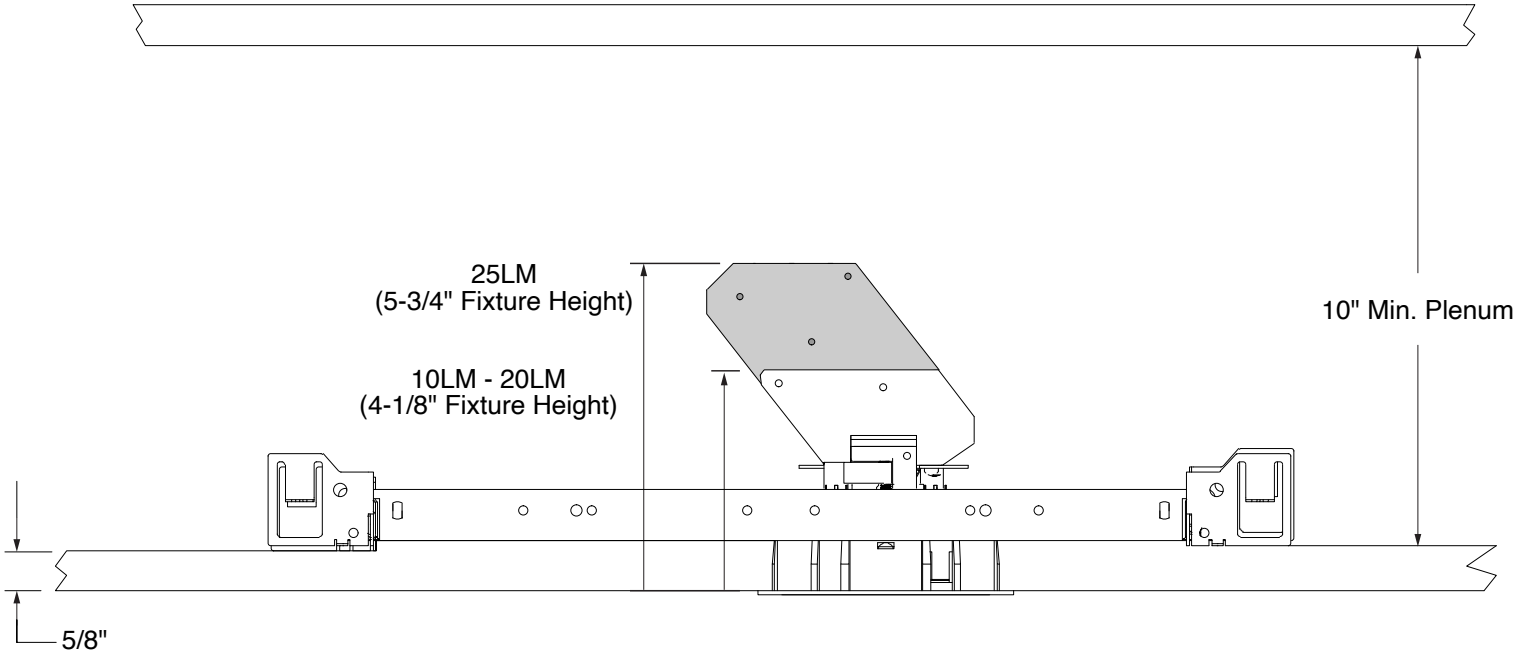
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

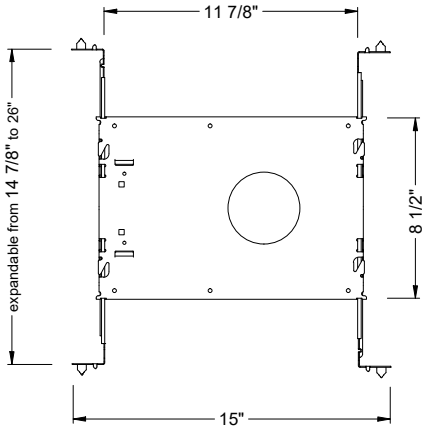
RATINGS / CERTIFICATIONS	NC
TYPE NON-IC	✔
TYPE IC	
CHICAGO PLENUM (CCEA)	
SUITABLE FOR AIR HANDLING PLENUMS	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔

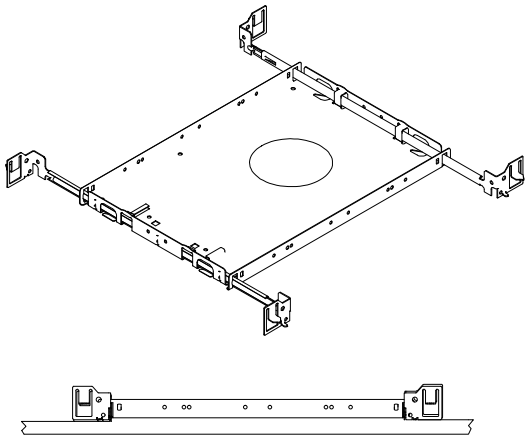
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-1/4"	3-3/8" diameter

PLENUM HEIGHT



NEW CONSTRUCTION - NC



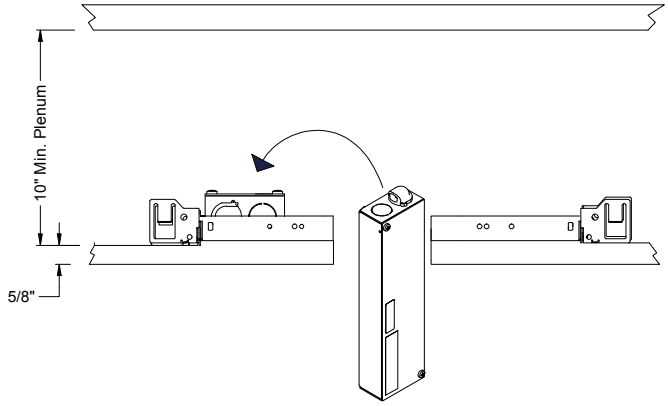


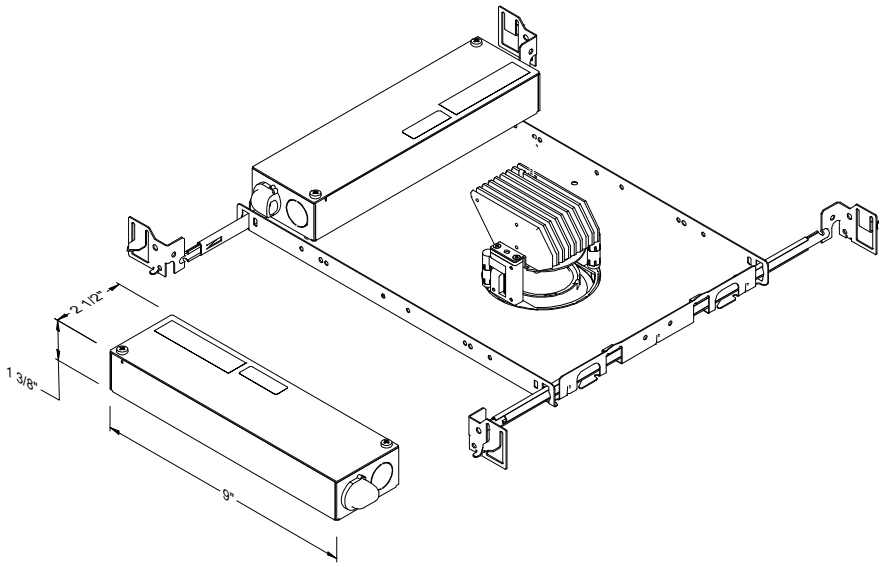
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

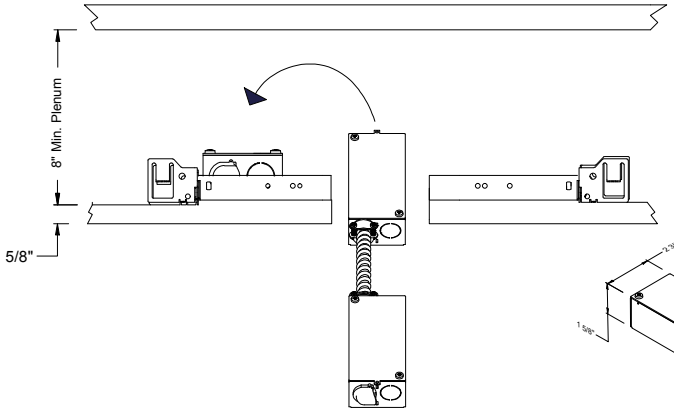
MOUNTING OPTIONS

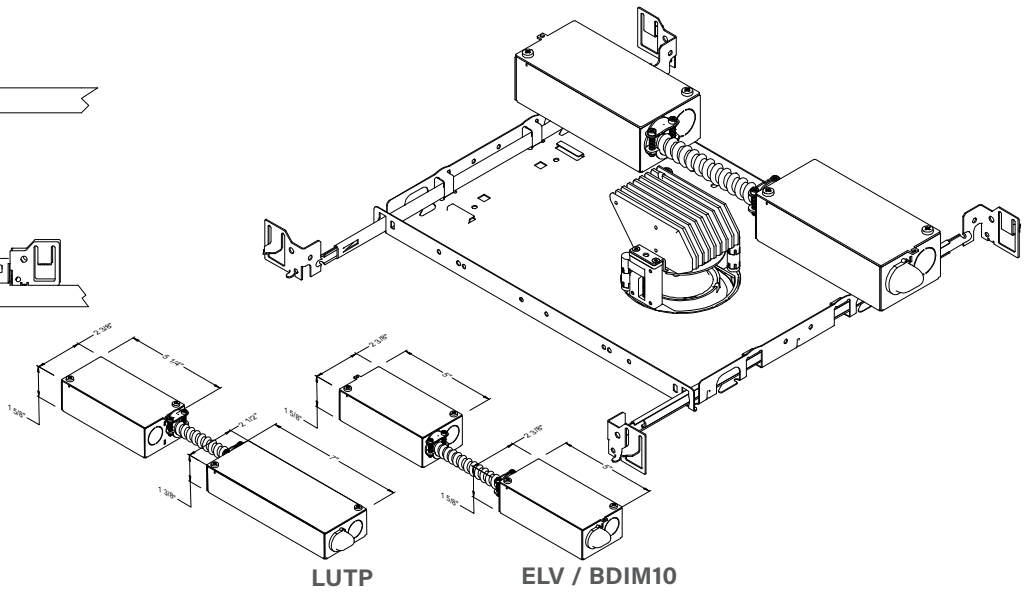
10LM-25LM (DIM10 / DIM10Z / DALI / DALIZ)
(BELOW CEILING ACCESSIBLE)





10LM-25LM (BDIM10 / ELV1 / LUTP)
(BELOW CEILING ACCESSIBLE)





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PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

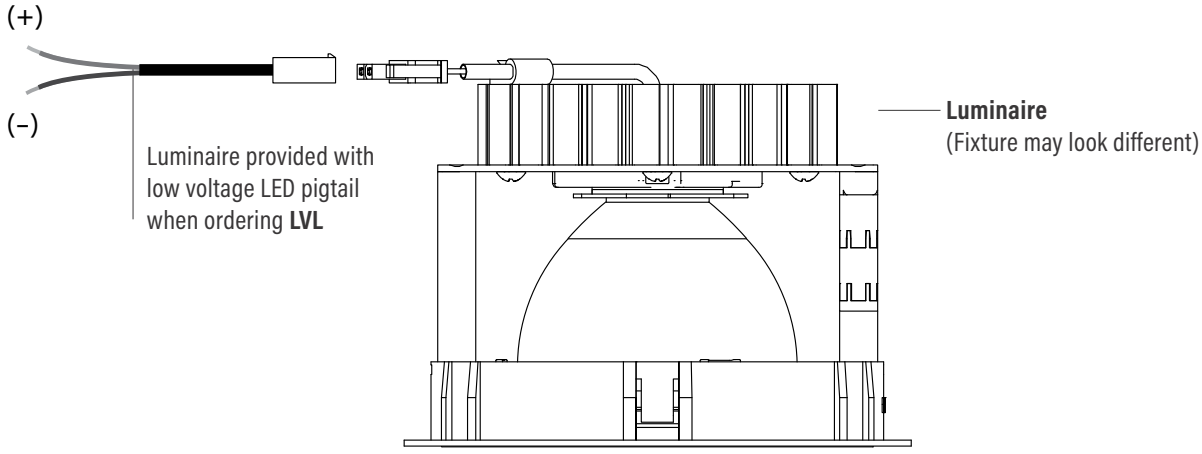
LOW VOLTAGE OPTIONS

20° - 105° BEAM (Note: Specifications are subject to change without notice)			
9mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	1010LM @30K/90CRI	225mA	8.5W
15LM	1510LM @30K/90CRI	350mA	13W
20LM	2060LM @30K/90CRI	500mA	18W
25LM	2600LM @30K/90CRI	675mA	24.5W
Notes	Delivered lumens based on 20° optic with no lens, (see page 2)		

15° BEAM (Note: Specifications are subject to change without notice)			
6mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	1080LM @30K/90CRI	275mA	10W
15LM	1470LM @30K/90CRI	400mA	14.5W
Notes	Delivered lumens based on 15° optic with no lens, (see page 2)		

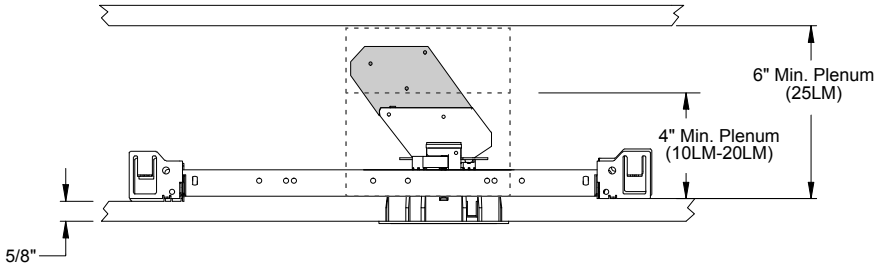
NOMINAL LED VOLTAGE: 36VDC

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



PLENUM HEIGHT

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



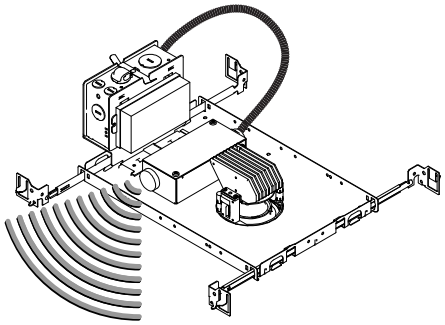
**Ref. DX panel specification sheet for remote driver options.*

alphabet

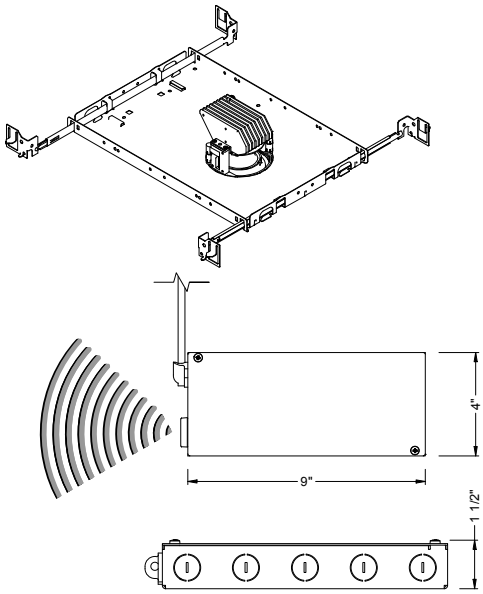
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

WIRELESS OPTIONS

NC - NEW CONSTRUCTION
PLENUM SIDE



NC - NEW CONSTRUCTION
DX REMOTE



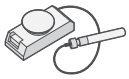
Customer must verify system design and installation with their controls provider (e.g., Lutron).
Wireless signal strength, reliability, performance, and commissioning are the responsibility of the customer. Remote DX can power LEDs up to 330FT (18 AWG), but adequate wireless signal is customers responsibility.

YOUR COMPLETED ORDERING CODE
Follow the steps to specify your fixture, example:
NU3 - RDTR - SW - 15LM - 30K - 90 - 20D - CL - WH - WH -NC -UNV - DIM10 - AWN
NU3 - RDTR - SW - 15LM - 30K - 90 - 20D - CL - WH - WH -NC -UNV - DIM10 - AWN - DX

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

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

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

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