alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

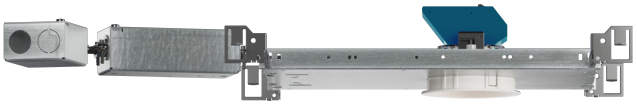
NU3 LOPRO

3" Round Downlight Standard White

NSF | AT airtight | DF dead-front | PR plenum rated | 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	9W
15LM	1580LM @30K/90CRI	14W
20LM	2100LM @30K/90CRI	19W
25LM	2570LM @30K/90CRI	25W
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	1010LM @30K/90CRI	10W
15LM	1550LM @30K/90CRI	17W
Notes	Delivered lumens based on 15° optic with no lens, (see page 2)	



FEATURES

- Double jointed driver box allows for 4" shallow plenum installation
- UGR <17
- Glare control, specialty optics, trim options, and custom finishes available
- Microban® antimicrobial finish available on all exposed painted surfaces

DIMMING AND CONTROLS

- eldoLED 0-10V dimming to 1%
- BAA – BABA compliant, flicker free 0-10V dim to 1%
- Leading & trailing edge (Triac/ELV), dim to 1%

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"

LED

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

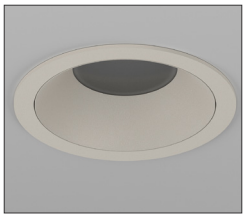
LISTING

- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

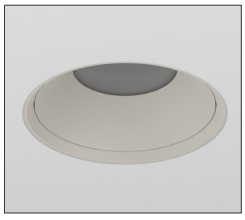
ELECTRICAL

- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)

TRIM OPTIONS



Trimmed

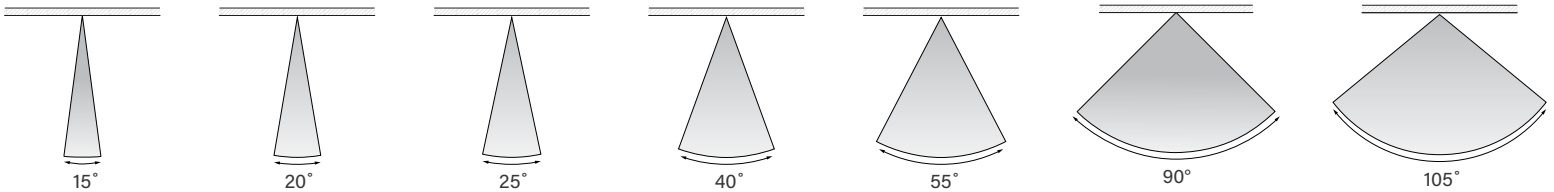


Trimless



Trimless Millwork

BEAM SPREADS



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU3**	NU3	
TYPE	**RDLP**	round downlight lopro	
	RDTLP	round downlight trimless lopro	
	RDTMWLP	round downlight trimless millwork lopro	
LED	**SW**	standard white	
DELIVERED LUMENS	**10LM**	1010 lm	
	15LM	1580 lm	
	20LM	2100 lm	
	25LM	2570 lm	
	Standard Configuration: 3000K 90CRI **NL**		
	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)
ACCESSORY	**HCL**[2]	honeycomb louver	
	Attached to bezel		
BEZEL LENS	**NL**[3]	no lens	(1.00)
	CL	clear lens	(0.97)
	DL	diffused lens	(0.85)
	E	elliptical beam spread	(0.96)
	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	
	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
	IC[5]	insulation contact housing
	RET	retrofit, no ceiling plate
VOLTAGE	**120**	120V
	UNV	120V-277V
	LVL[6]	low voltage luminaire
DIMMING	**DIM10**	0-10V dimming to 1%
	BDIM10[7]	BAA – BABA compliant, flicker free 0-10V dim to 1%
	ELV1[8]	leading edge & trailing edge (Triac/ELV) dim to 1%
	ND	no driver included
ELECTRICAL OPTIONS	**EM7**	remote emergency battery, 90 min at 7W
	EM12	remote emergency battery, 90 min at 12W
	EM10CA20	remote emergency battery, 90 min at 10W

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

NU3 - RDLP - SW - 20LM - 30K - 90 - 20D - NL - WH - WH - NC - UNV - DIM10 - EM7

NOTES

1. 15D 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. IC not available in 25LM.
6. Must select ND dimming code. For remote driver or POE (by other) Ref page 11
7. BDIM10 not available in 25LM
8. ELV1 dimming 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.

HCL
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
15D	15	<10
20D	20	<10
25D	22	<10
40D	35	<10
55D	49	<10

NL
No Lens



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

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



OPTIC	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

E
Elliptical Lens



OPTIC	BEAM ANGLE	UGR
20D	36X62	11X19
25D	39X64	13X21
40D	49X75	17X24
55D	54X79	17X25

SBL
Smoothing Beam Lens



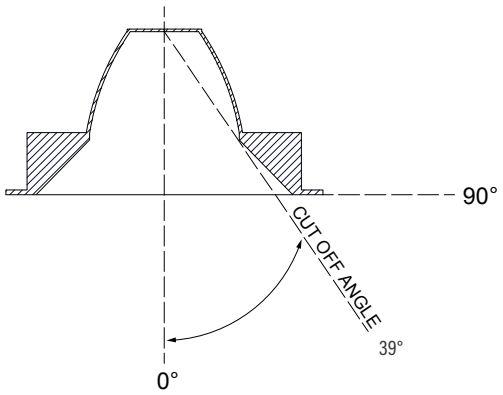
OPTIC	BEAM ANGLE	UGR
15D	16	<10
20D	22	13.1
25D	27	14.9
40D	40	14.1
55D	56	14.2

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;



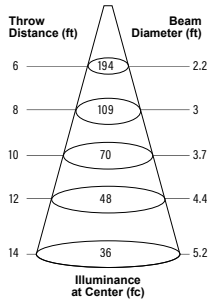
alphabet

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	

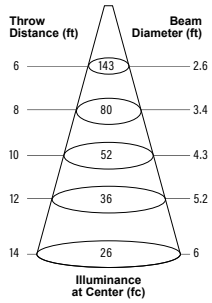
20D 21° NO LENS



WATTS: 13.7	LPW: 114.5
LUMENS: 1569	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	6975
5	5996
15	1767
25	633
35	380
45	19

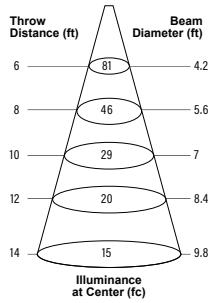
25D 25° NO LENS



WATTS: 13.7	LPW: 115
LUMENS: 1576	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	5151
5	4512
15	1893
25	824
35	381
45	15

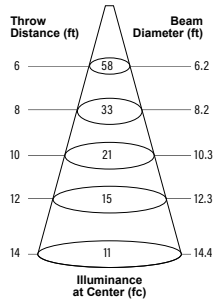
40D 39° NO LENS



WATTS: 13.7	LPW: 113.9
LUMENS: 1561	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	2918
5	2827
15	1940
25	987
35	437
45	22

55D 55° NO LENS

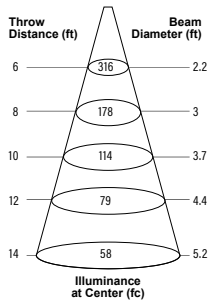


WATTS: 13.7	LPW: 112.6
LUMENS: 1543	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	2097
5	2060
15	1778
25	1194
35	438
45	24

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

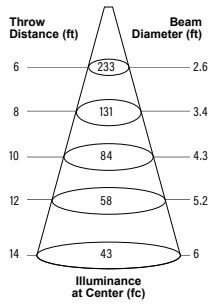
20D 21° NO LENS



WATTS: 24.5	LPW: 104.5
LUMENS: 2560	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	11379
5	9781
15	2883
25	1033
35	620
45	31

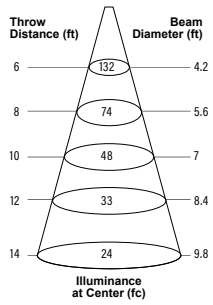
25D 25° NO LENS



WATTS: 24.5	LPW: 104.9
LUMENS: 2571	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	8403
5	7360
15	3087
25	1345
35	622
45	24

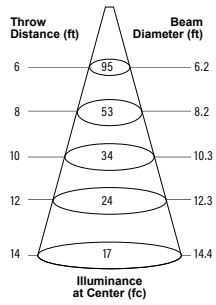
40D 39° NO LENS



WATTS: 24.5	LPW: 103.9
LUMENS: 2546	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	4761
5	4612
15	3166
25	1610
35	713
45	36

55D 55° NO LENS



WATTS: 24.5	LPW: 102.7
LUMENS: 2517	CCT: 3000K

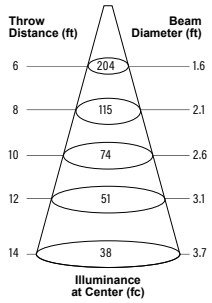
INTENSITY	
DEGREE	CANDELA
0	3422
5	3360
15	2901
25	1948
35	714
45	40

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	

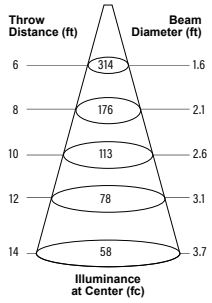
15D
15° NO LENS



WATTS: 10.1	LPW: 100
LUMENS: 1010	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	7350
5	5234
15	883
25	368
35	289
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

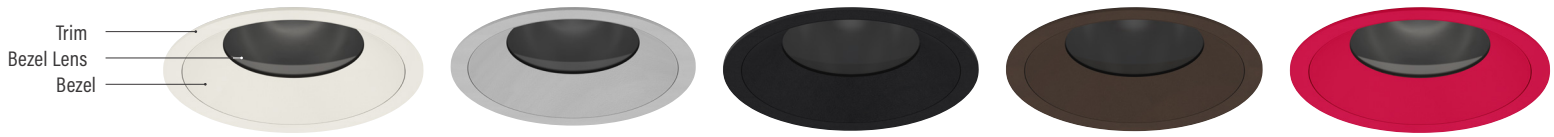


WATTS: 16.8	LPW: 92.4
LUMENS: 1552	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	11295
5	8042
15	1356
25	566
35	444
45	0

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

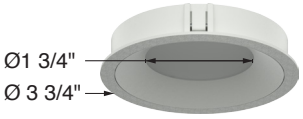
TRIM OPTIONS

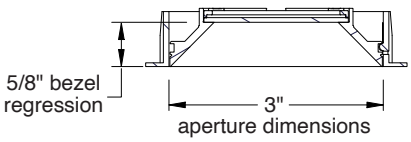
TRIM/BEZEL COLORS

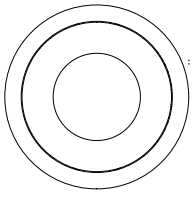


WH MC BK BZ CC

TRIMMED

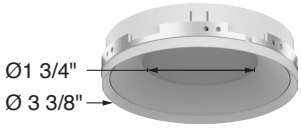


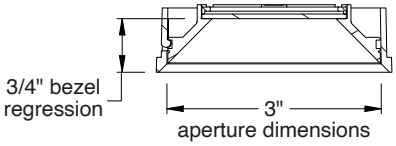


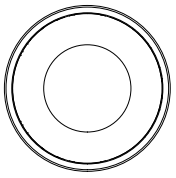


ceiling cutout
3-3/8" diameter
ceiling thickness
1/8" to 1-1/4"

MILLWORK

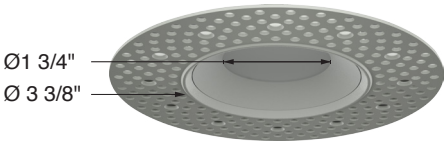


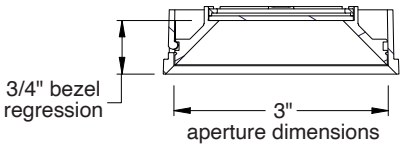


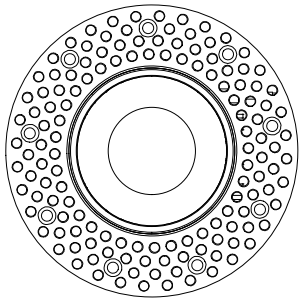


ceiling cutout
3-3/8" diameter
ceiling thickness
1/2" to 1-3/8"

TRIMLESS







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

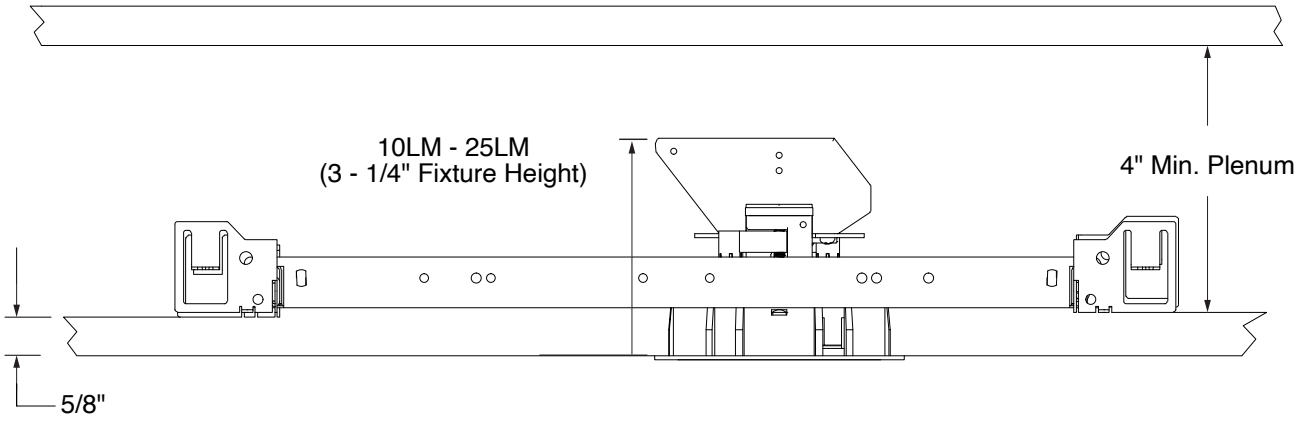
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

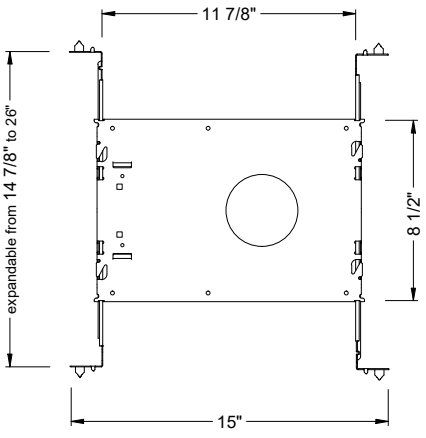
RATINGS / CERTIFICATIONS	NC	RET	IC
TYPE NON-IC	✔	✔	
TYPE IC			✔
CHICAGO PLENUM (CCEA)			
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔	✔	✔

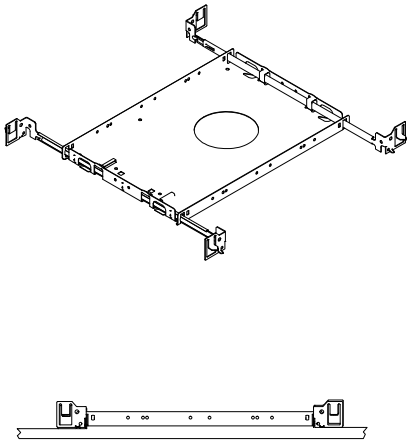
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-1/4"	3-3/8" diameter
TRIMLESS	3/8" to 1-3/8"	3-1/2" diameter
MILLWORK (TRIMLESS)	1/2" to 1-3/8"	3-3/8" diameter

PLENUM HEIGHT



NEW CONSTRUCTION - NC



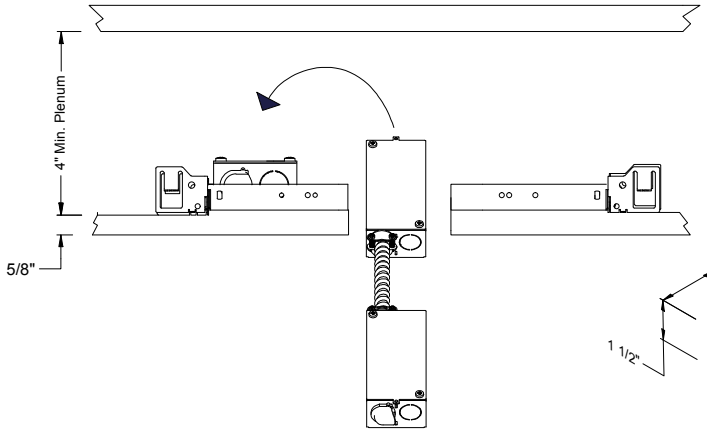


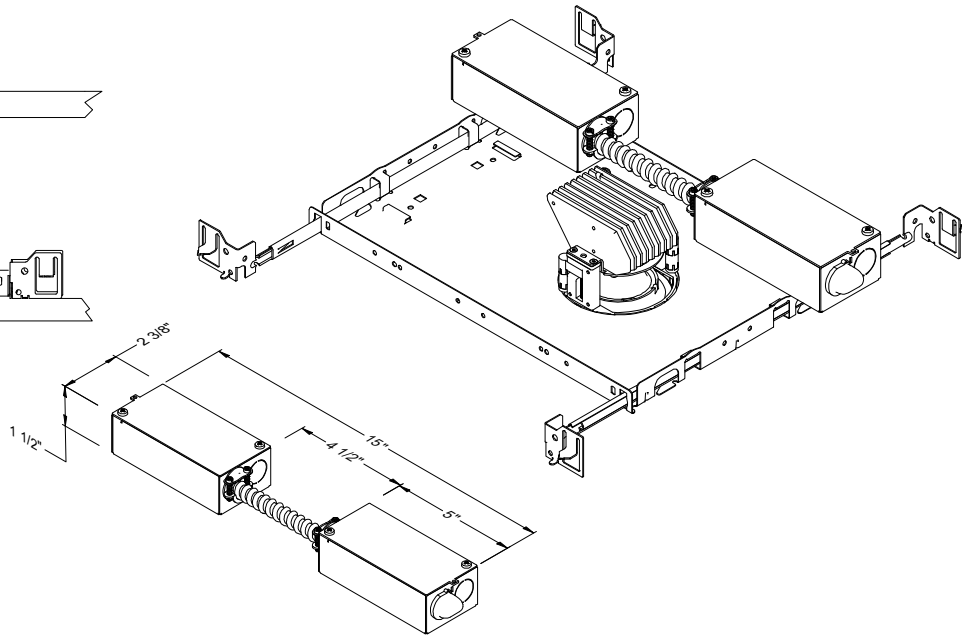
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

10LM - 25LM (DIM10 / BDIM10 / ELV1)
(BELOW CEILING ACCESSIBLE)

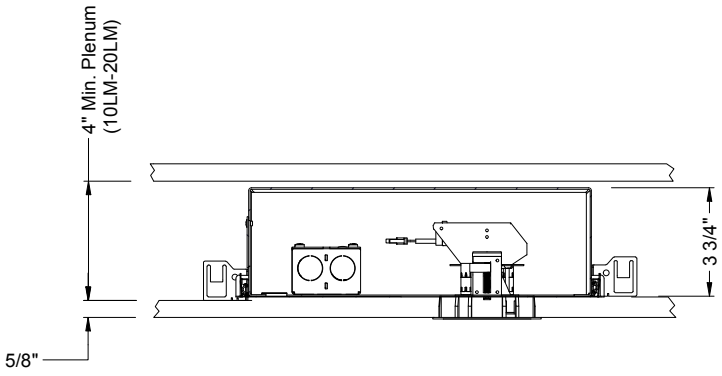


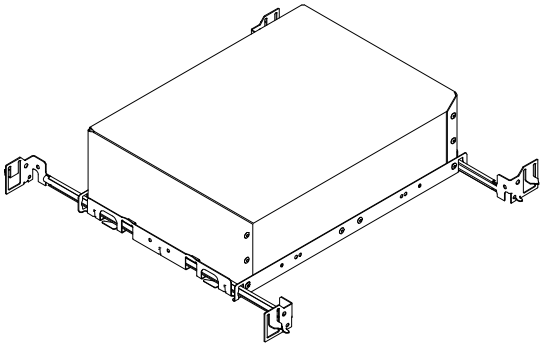


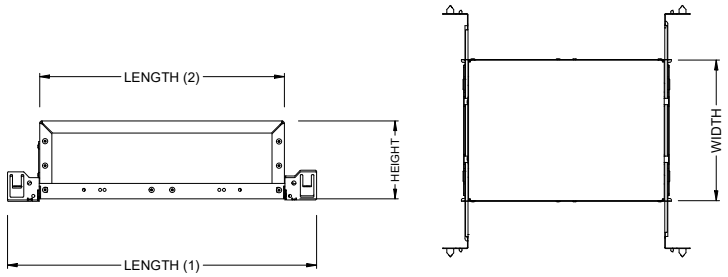
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

IC - INSULATION CONTACT
(DIM10 / BDIM10 / ELV1 / ND)







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

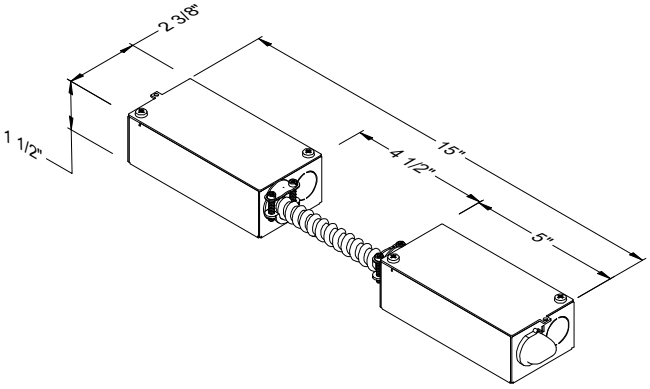
BOX TYPE / LUMEN OUTPUT - NARROW BEAM (20°-105°)	
LUMEN OUTPUT	BOX-A
	IC
10LM	✔
15LM	✔
20LM	✔
25LM	

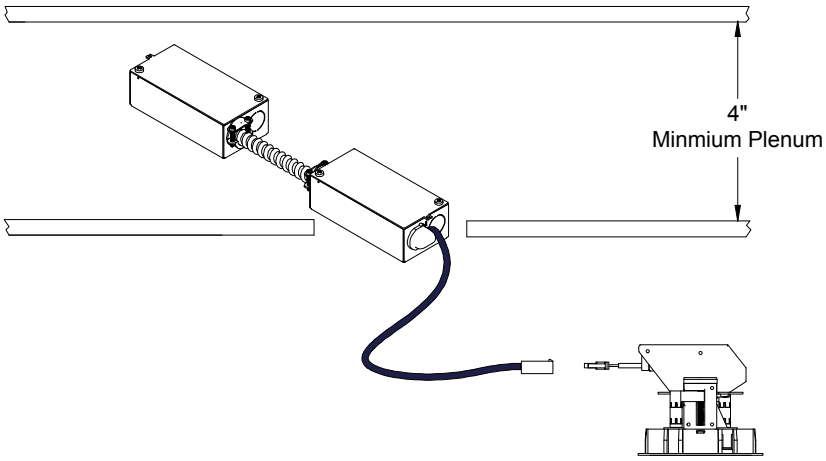
BOX TYPE / LUMEN OUTPUT - NARROW BEAM (15°)	
LUMEN OUTPUT	BOX-A
	IC
10LM	✔
15LM	✔

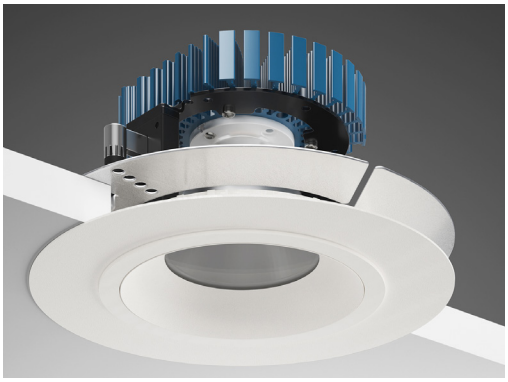
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

RETRO OPTIONS

10LM - 25LM (DIM10/BDIM10/ELV1)







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.

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

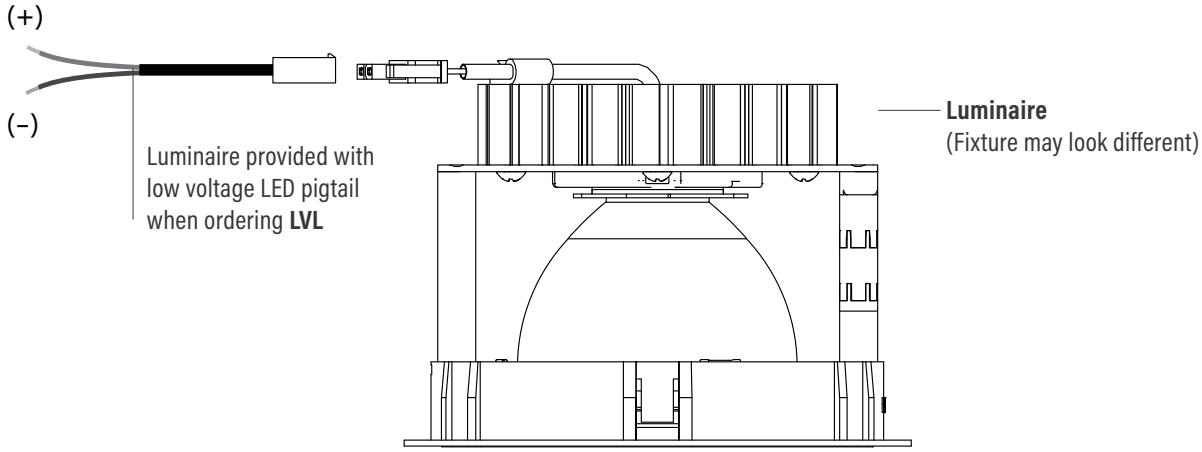
LOW VOLTAGE OPTIONS

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	200mA	7.5W
15LM	1580LM @30K/90CRI	325mA	12W
20LM	2100LM @30K/90CRI	450mA	16.5W
25LM	2570LM @30K/90CRI	575mA	21W
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	1010LM @30K/90CRI	225mA	8.5W
15LM	1550LM @30K/90CRI	375mA	13.5W
Notes	Delivered lumens based on 15° optic with no lens, (see page 2)		

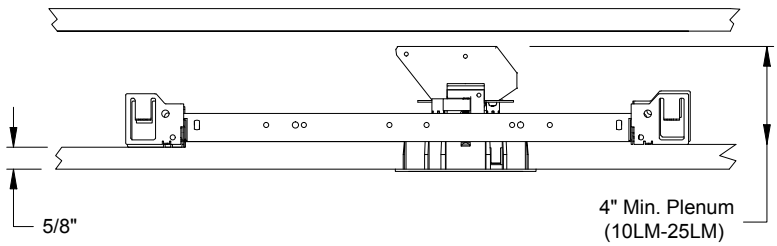
NOMINAL LED VOLTAGE: 36VDC

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

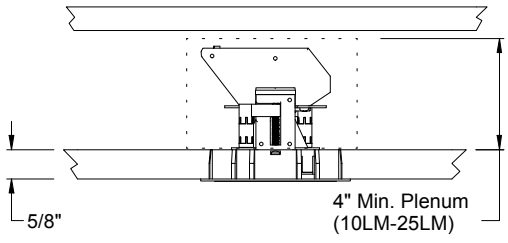


PLENUM HEIGHT

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



(RET-LVL-ND) REMOTE DX PANEL RETRO



(-LVL-ND) REMOTE DX PANEL

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

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

BATTERY OPTIONS

EMERGENCY BATTERY

IOTA's ILB Battery Backups are UL Listed LED emergency drivers that allow the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the ILB switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains a battery, charger, and converter circuit in a single can. The Constant Power design of the ILB maintains the output wattage to the LED array even as the system voltage diminishes. UL 924 Listed for U.S. and Canada. UL 1310 Certified, Output Class 2 Compliant. Includes single-piece TBTS test switch and charge indicator accessory kit. For use with switched and unswitched fixtures, and includes Two-wire universal AC input. Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting Requirements. Rated for use in Plenum, Damp Location, Recessed Type IC, and Enclosed and Gasketed Luminares.

REMOTE TEST SWITCH

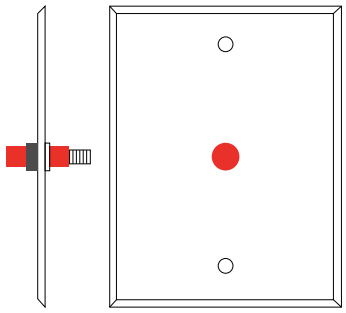
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS

Above ceiling access is required for service. An access panel in the ceiling (or other form of access) adjacent to the installation location of the Emergency Battery is required.

REMOTE LOCATION

Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.

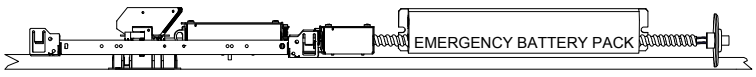


Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 25LM)	740	992	1200
Notes: Based on 30K, 90CRI			

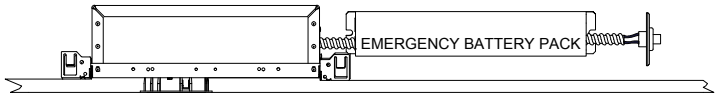
NC - NEW CONSTRUCTION

WITH EM BATTERY (REMOTE TEST SWITCH)

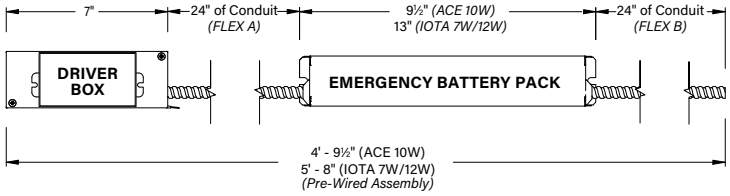


IC - INSULATION CONTACT HOUSING

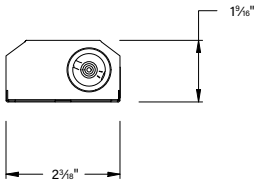
WITH EM BATTERY (REMOTE TEST SWITCH)



REMOTE BATTERY DIMENSIONS



EMERGENCY BATTERY PACK



DRIVER BOX

