alphabet

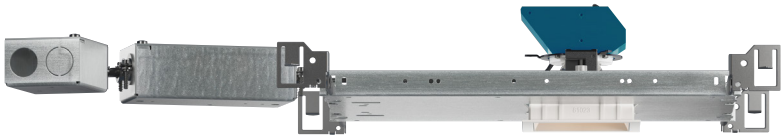
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU3 LOPRO

3" Square Downlight Standard White

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

60° - 98° BEAM (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	930LM @30K/90CRI	9W
15LM	1490LM @30K/90CRI	13W
20LM	2030LM @30K/90CRI	18W
25LM	2550LM @30K/90CRI	23W
Notes	Delivered lumens based on 20° optic with no lens, (see page 2)	



FEATURES
- Double jointed driver box allows for 4" shallow plenum installation
- UGR <21
- Up to 103 LPW
- 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%

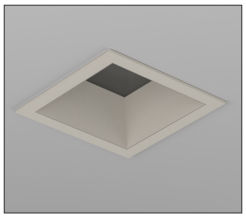
CONSTRUCTION
- Lexan™ (PC) highly resistant to impact and heat (240°F)
- Optimal material for wireless signal connectivity
- Shatter proof acrylic bezel lens
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/8" to 1-1/4"

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

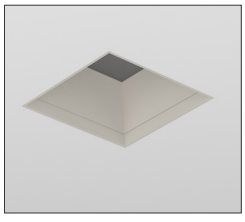
LISTING
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens
- **Declare.** - LBC Red List Approved
- 5 Year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

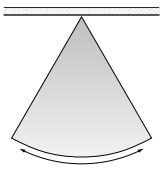


Trimless

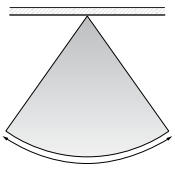


Trimless Millwork

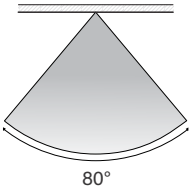
BEAM SPREADS



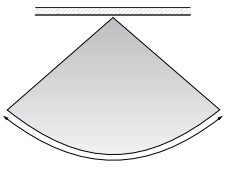
60°



70°



80°



98°

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU3**	NU3	
TYPE	**QDLP**	square downlight, lopro	
	QDTLP	square downlight, trimless, lopro	
	QDTMWLP	square downlight, trimless, millwork, lopro	
LED	**SW**	standard white	
DELIVERED LUMENS	**10LM**	930 lm	
	15LM	1490 lm	
	20LM	2030 lm	
	25LM	2550 lm	
	Standard Configuration: 3000K 90CRI WH80 **Calculated Delivered Lumens =** [Delivered Lumen Value] x [CCT Multiplier] x [Optic 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	**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)
BEZEL LENS	**NL**[1]	no lens	
TRIM COLOR	**BK**	black	
	WH	white	
	MC	matte chrome	
	BZ	bronze	
	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)
	BZ	bronze	(0.98)
	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
	IC[3]	insulation contact housing
	RET	retrofit, no ceiling plate
VOLTAGE	**120**	120V
	UNV	120V-277V
	LVL[4]	low voltage luminaire
DIMMING	**DIM10**	0-10V dimming to 1%
	BDIM10[5]	BAA – BABA compliant, flicker free 0-10V dim to 1%
	ELV1[6]	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 - QDLP - SW - 20LM - 30K - 90 - HE60 - WH - WH - NC - UNV - DIM10 - EM7

NOTES

1. NL option does not meet requirement for AT/DF/WET/NSF listings.
2. Custom set up fee plus minimum quantity required per color.
3. IC not available in 25LM.
4. Must select ND dimming code. For remote driver or POE (by other) Ref page 10
5. BDIM10 not available in 25LM
6. ELV 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.

CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
D70	70	20.2
WH80	78	23.2

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
HE60	64	21.1
HE80	85	26

WDL
Wide Diffused Lens



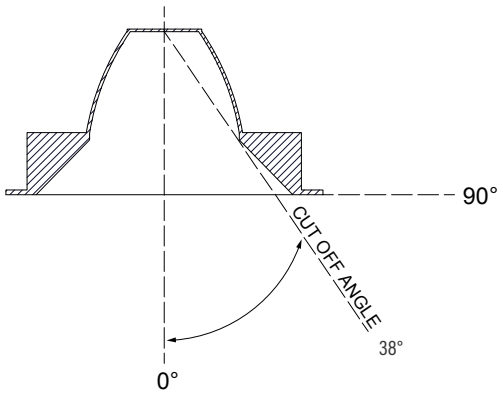
OPTIC	BEAM ANGLE	UGR
WDL100	98	26.1

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;



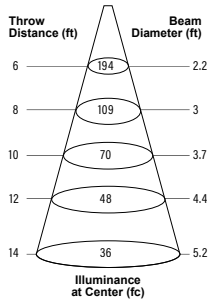
alphabet

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	

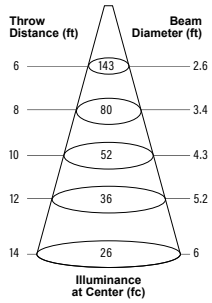
20D 21° NO LENS



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

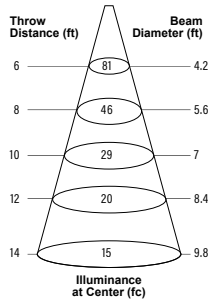
25D 25° NO LENS



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

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

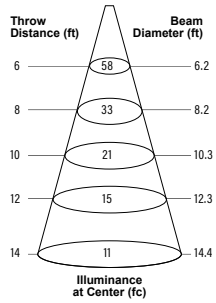
40D 39° NO LENS



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

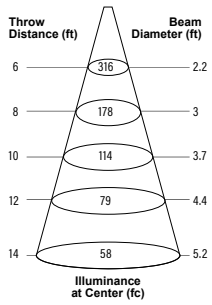


WATTS: 13.7	LPW: 112.6
LUMENS: 1543	CCT: 3000K

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

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

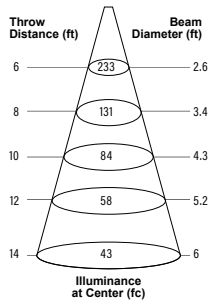
20D 21° NO LENS



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

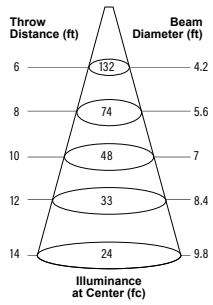
25D 25° NO LENS



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

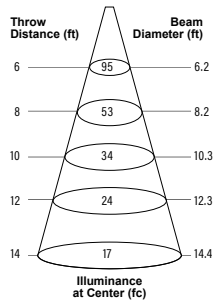
40D 39° NO LENS



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

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

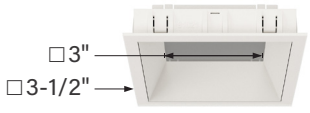
TRIM OPTIONS

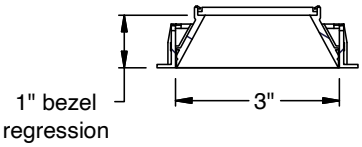
TRIM/BEZEL COLORS



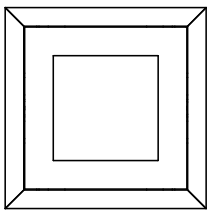
WH MC BK BZ CC

TRIMMED



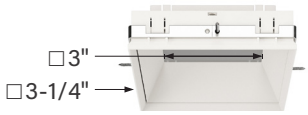


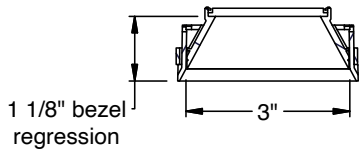
aperture dimensions



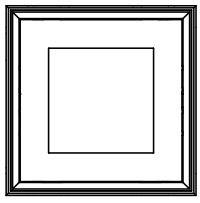
ceiling cutout
3-1/4" square
ceiling thickness
1/8" to 1-1/4"

MILLWORK



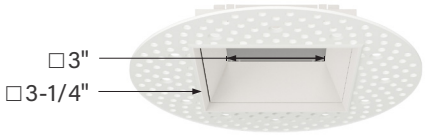


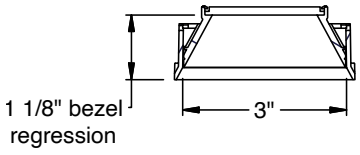
aperture dimensions



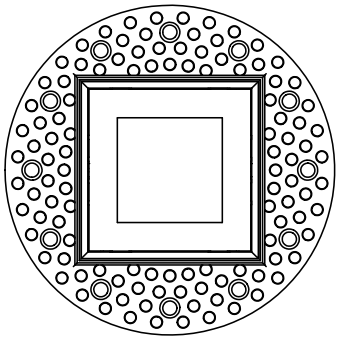
ceiling cutout
3-1/2" square
ceiling thickness
3/8" to 1-3/8"

TRIMLESS





aperture dimensions



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

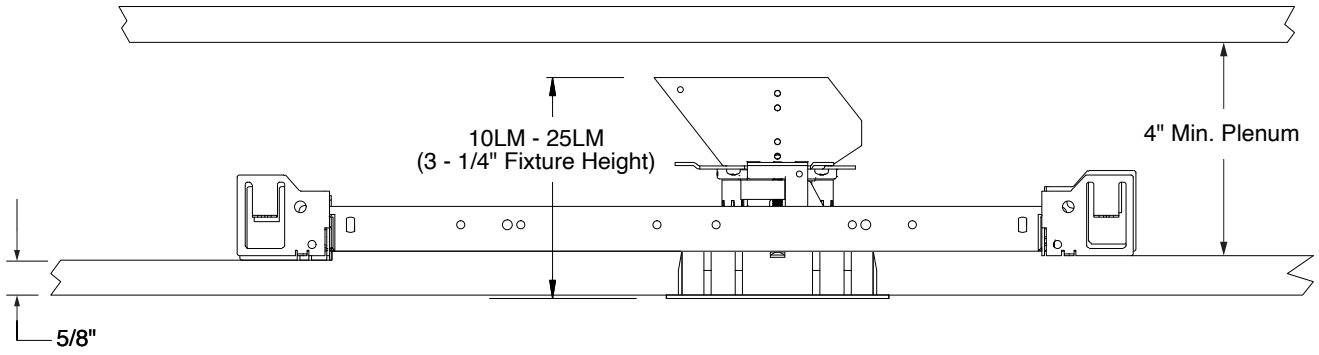
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

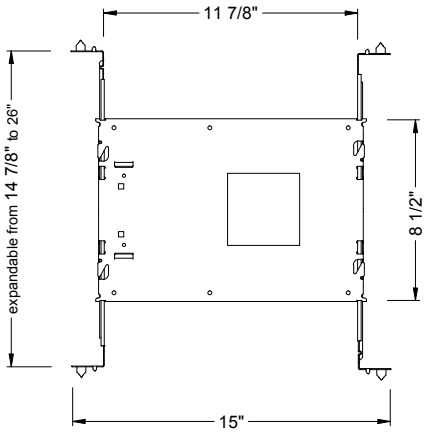
RATINGS / CERTIFICATIONS	NC	RET	IC
TYPE NON-IC	✔	✔	
TYPE IC			✔
CHICAGO PLENUM (CCEA)			
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔	✔	✔

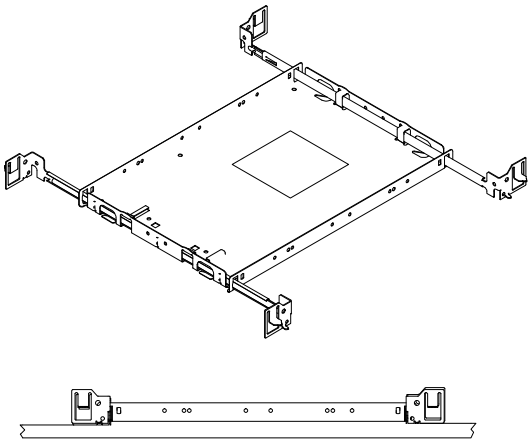
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-1/4"	3-1/4" square
TRIMLESS	3/8" to 1-3/8"	3-1/2" square
MILLWORK (TRIMLESS)	5/8" to 1-3/8"	3-9/32" square

PLENUM HEIGHT



NEW CONSTRUCTION - NC



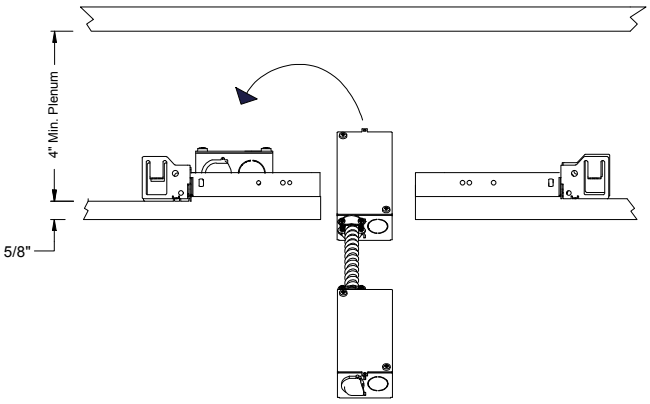


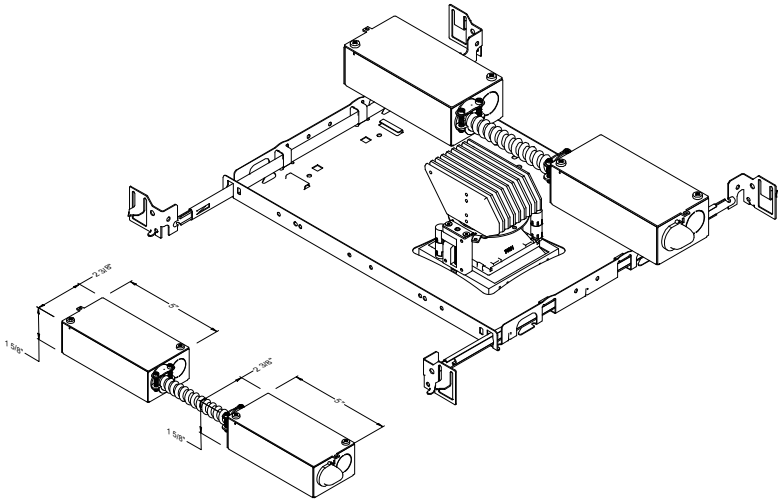
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

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

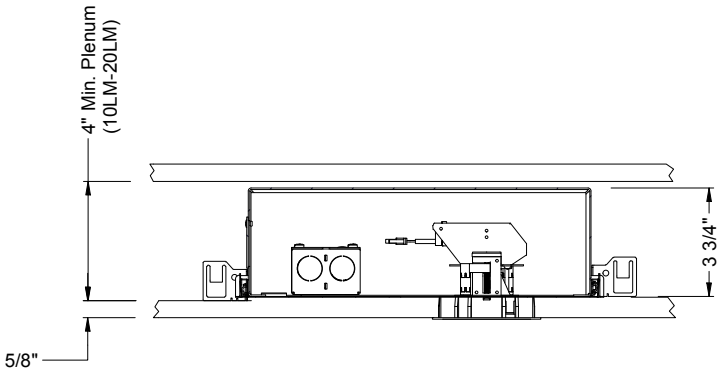


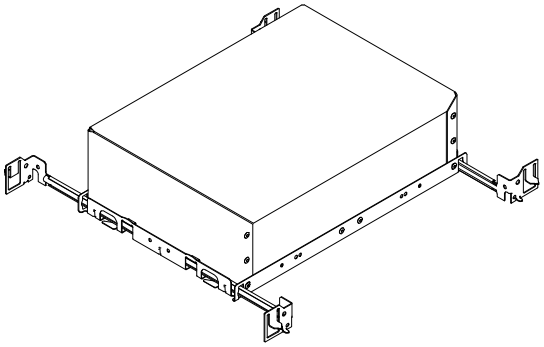


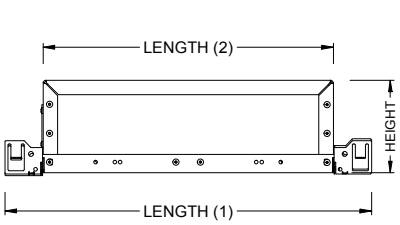
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

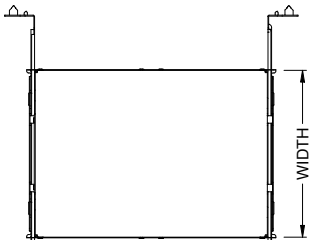
MOUNTING OPTIONS

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









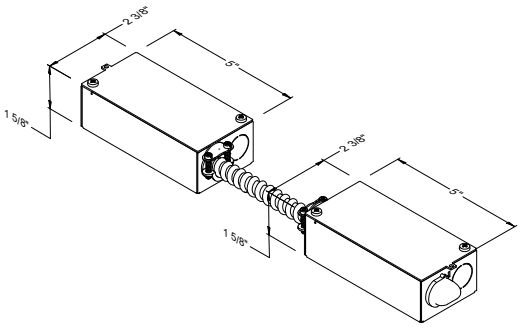
BOX SIZE	L 1	L 2	W	H
A	15 - 7/16"	11 - 3/4"	8 - 1/2"	3 - 3/4"

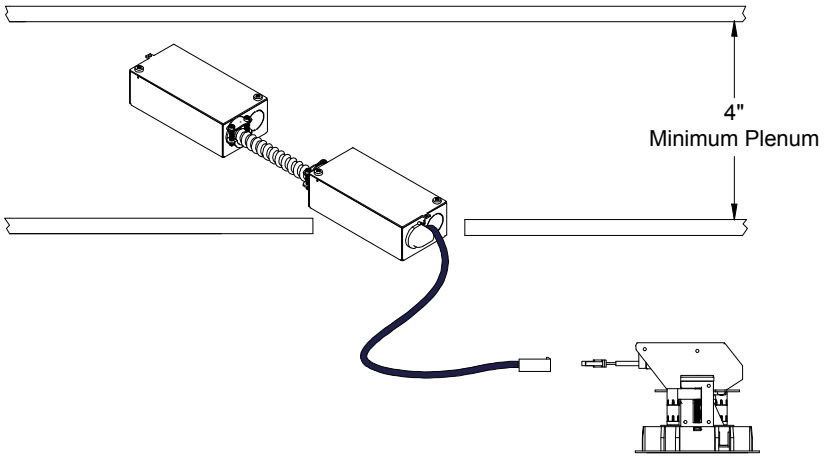
BOX TYPE / LUMEN OUTPUT - NARROW BEAM (60°-98°)	
LUMEN OUTPUT	BOX-A
	IC
10LM	✔
15LM	✔
20LM	✔
25LM	

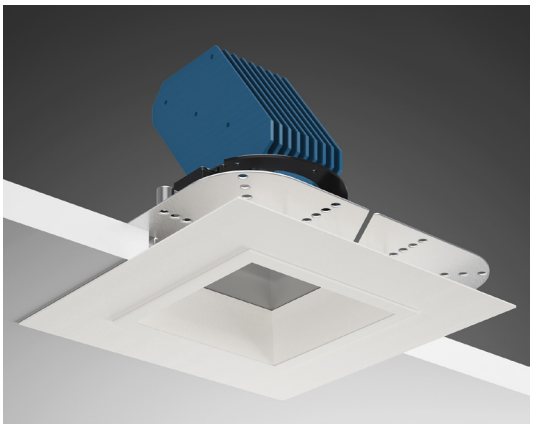
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

RETRO OPTIONS

10LM - 25LM (DIM10 / ELV1)







NU3 SERIES - Goof Ring, Square

PRODUCT	SQUARE CEILING HOLE CUTOUT RANGE[1]	GOOF RING SIZE	ORDERING CODE
NU3-QD NU3-QW	3.38" to 3.88"	AF = 6.0" x 6.0"	GF-3Q-1-XX[2]
NU3-QD NU3-QA NU3-QW	3.89" to 4.5"		GF-3Q-2-XX[3]
	4.51" to 5.0"		GF-3Q-3-XX[3]
	5.01" to 5.5"	AF = 7.0" x 7.0"	GF-3Q-4-XX[3]
	5.51" to 6.0"		GF-3Q-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-3Q-1-WH
*Accommodates max ceiling thickness up to 1 1/4" for QD, QA and up to 5/8" for QW.

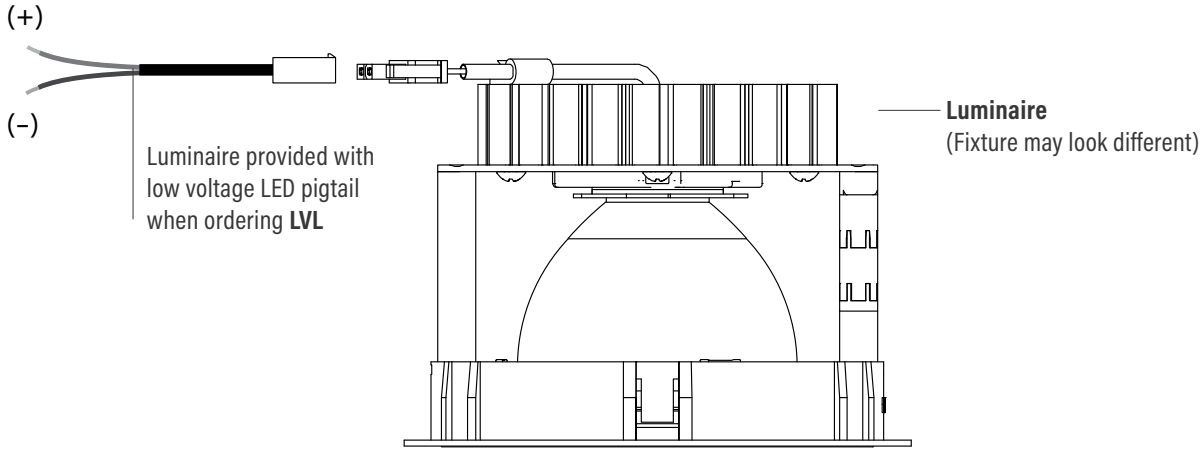
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

LOW VOLTAGE OPTIONS

20° - 105° BEAM (Note: Specifications are subject to change without notice)			
14mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	930LM @30K/90CRI	200mA	7.5W
15LM	1490LM @30K/90CRI	325mA	12W
20LM	2030LM @30K/90CRI	450mA	16.5W
25LM	2550LM @30K/90CRI	575mA	21W
Notes	Delivered lumens based on 20° optic with no lens, (see page 2)		

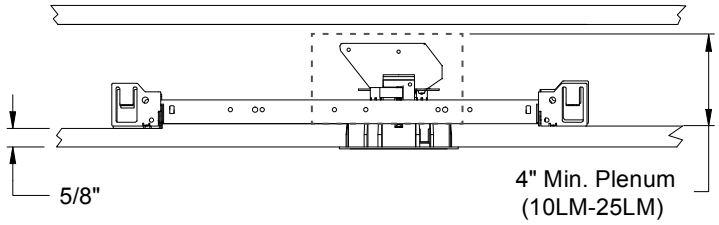
NOMINAL LED VOLTAGE: 36VDC

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

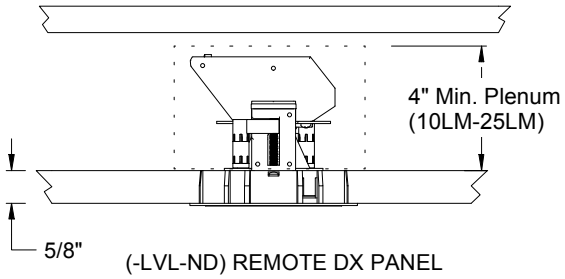


PLENUM HEIGHT

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



(RET-LVL-ND) REMOTE DX PANEL RETRO



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

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

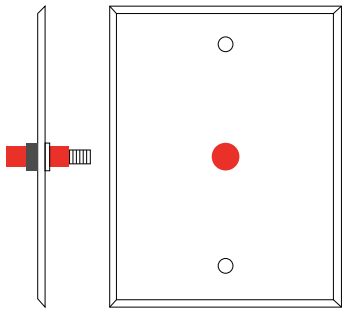
BATTERY OPTIONS

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.

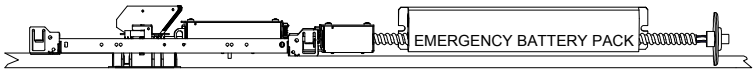
REMOTE LOCATION
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



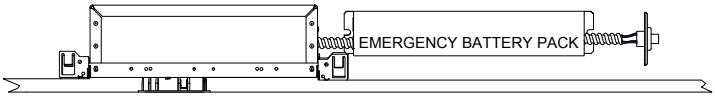
Remote Test Switch

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

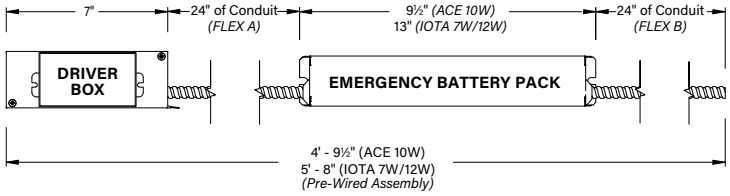
NC - NEW CONSTRUCTION
WITH EM BATTERY (REMOTE TEST SWITCH)



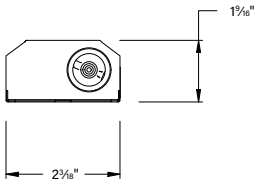
IC - INSULATION CONTACT HOUSING
WITH EM BATTERY (REMOTE TEST SWITCH)



REMOTE BATTERY DIMENSIONS



EMERGENCY BATTERY PACK



DRIVER BOX

