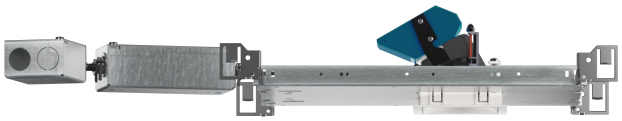
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU3-LOPRO

3" Square Adjustable Standard White

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



20° - 98° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	950LM @30K/90CRI	9W
15LM	1470LM @30K/90CRI	14W
20LM	1950LM @30K/90CRI	20W
25LM	2400LM @30K/90CRI	25W
Notes	Delivered lumens based on 35° 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	950LM @ 30K/90CRI	12W
15LM	1420LM @ 30K/90CRI	19W
Notes	Delivered lumens based on 15° optic with no lens, (see page 2)	

9.5° BEAM (Note: Specifications are subject to change without notice)		
4.5mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	1050LM @ 30K/90CRI	18W
Notes	Delivered lumens based on 9° optic with no lens, (see page 2)	

FEATURES

- True 30° Tilt with <5% beam disruption (clipping)
- Zero ceiling line obstruction at Full Tilt
- Concentric Tilt Tracking ensures minimal light loss
- 360° full rotation
- UGR <5
- Multiple mounting and glare control options

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"
- **CUT OUT DIMENSIONS:**
  Trimmed - 3-1/4" x 3-1/4"
  Millwork - 3-9/32" x 3-9/32"
  Trimless - 3-1/2" x 3-1/2"

LED

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

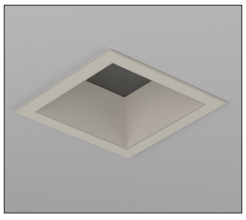
LISTING

- 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 (Non-Food and Splash Zones)
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

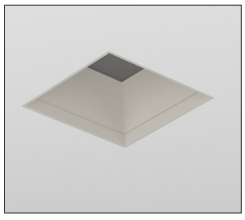
ELECTRICAL

- 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

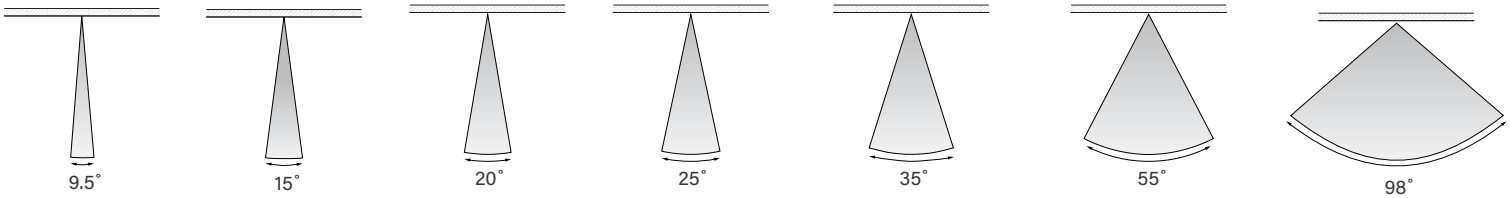


Trimless



Trimless Millwork

BEAM SPREADS



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU3**	NU3	
TYPE	**QALP**	square adjustable, lopro	
	QATLP	square adjustable, trimless, lopro	
	QATMWLP	square adjustable, trimless millwork, lopro	
LED	**SW**	standard white	
DELIVERED LUMENS	**10LM**	950 lm	
	15LM	1470 lm	
	20LM	1950 lm	
	25LM	2400 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	**9D**[1]	9.5 degrees	(1.10)
	15D[2]	15 degrees	(1.10)
	20D	20 degrees	(0.91)
	25D	25 degrees	(0.91)
	35D	35 degrees	(1.00)
	55D	55 degrees	(0.96)
ACCESSORY	**NA**	no accessory	(1.00)
	HCL	honeycomb louver	(0.70)
	HETA	high efficiency textured lens, similar to Solite™	(0.90)
	EA	elliptical lens	(0.90)
	Attached to **TIR** optic, field replaceable (maximum, 1 media)		
BEZEL LENS	**NL**[3]	no lens	(1.00)
	CL	clear lens	(0.92)
	DL	diffused lens	(0.91)
	HET	high efficiency textured lens, similar to Solite™	(0.92)
	SBL	smoothing beam lens	(0.92)
	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
	WIRELESS (ref. page 11 for available options)	
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 - QALP - SW - 20LM - 30K - 90 - 20D - HCL - CL - WH - WH - NC - UNV - DIM10 - EM7

NOTES

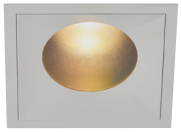
1. 9D available in 10LM with NL/SBL lens. No accessory option available.
2. 15D available in 10LM/15LM. Not available with DL lens.
3. NL option does not meet requirement for AT/DF/WET/NSF listings.
4. Custom set up fee plus minimum quantity required per color.
5. IC not available in 9D/10LM or 25LM.
6. Must select ND dimming code. For remote driver or POE (by other) Ref page 11.
7. BDIM10 not available in 25LM
8. ELV1 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	14	<10
20D	18	<10
25D	23	<10
35D	28	<10
55D	47	<10

NL
No Lens



OPTIC	BEAM ANGLE	UGR
9D*	9.2	<10
15D	14	<10
20D	18	<10
25D	25	<10
35D	32	<10
55D	55	<10

* 9D UGR calculation based on 10LM fixtures

CL
Clear Lens



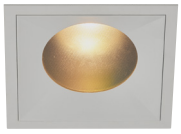
OPTIC	BEAM ANGLE	UGR
15D	14	<10
20D	19	<10
25D	25	<10
35D	32	<10
55D	55	<10

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
20D	37	10.4
25D	41	13.5
35D	44	14.1
55D	58	18.8

HET
High Efficiency Textured Lens



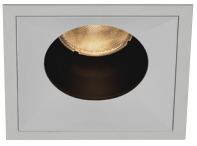
OPTIC	BEAM ANGLE	UGR
15D	19	<10
20D	23	<10
25D	28	<10
35D	33	<10
55D	53	<10

WDL
Wide Diffused Lens



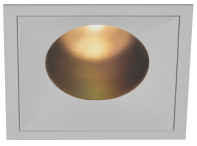
OPTIC	BEAM ANGLE	UGR
20D	75	21.4
25D	80	23.5
35D	84	24.5
55D	98	26.8

E
Elliptical Lens



OPTIC	BEAM ANGLE	UGR
20D	35x63	9x16
25D	39x67	11x19
35D	42x69	11x20
55D	56x83	17x25

SBL
Smoothing Beam Lens



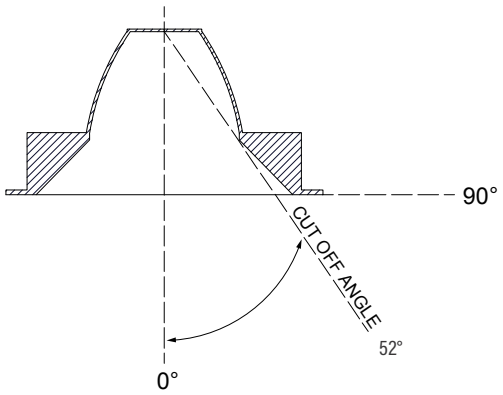
OPTIC	BEAM ANGLE	UGR
15D	15	<10
20D	19	<10
25D	25	<10
35D	32	<10
55D	55	<10

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 52° degrees;



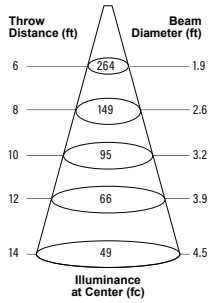
alphabet

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	

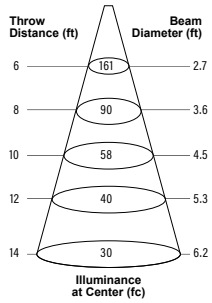
20D 19° WITH NO LENS



WATTS: 13.9	LPW: 94.9
LUMENS: 1320	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	9515
5	7721
15	2018
25	201
35	23
45	4

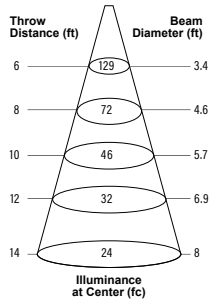
25D 25° WITH NO LENS



WATTS: 13.9	LPW: 95.4
LUMENS: 1326	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	5791
5	5132
15	2180
25	478
35	60
45	8

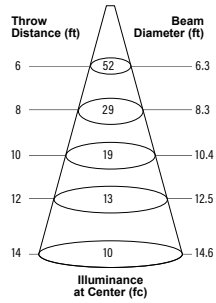
35D 32° WITH NO LENS



WATTS: 13.9	LPW: 105.5
LUMENS: 1467	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	4638
5	4383
15	2554
25	694
35	55
45	6

55D 55° WITH NO LENS

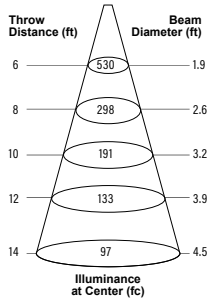


WATTS: 13.9	LPW: 100.9
LUMENS: 1402	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1837
5	1848
15	1757
25	1156
35	297
45	22

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

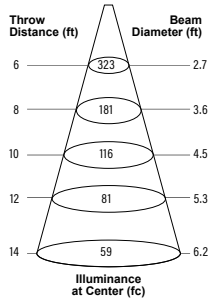
20D 19° WITH NO LENS



WATTS: 33.8	LPW: 78.3
LUMENS: 2646	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	19083
5	15484
15	4046
25	402
35	46
45	8

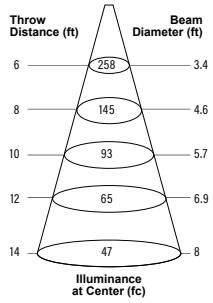
25D 25° WITH NO LENS



WATTS: 33.8	LPW: 78.7
LUMENS: 2660	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	11613
5	10292
15	4371
25	959
35	119
45	15

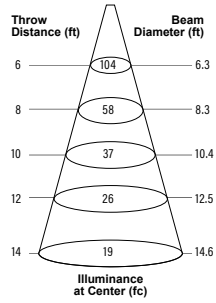
35D 32° WITH NO LENS



WATTS: 33.8	LPW: 87
LUMENS: 2942	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	9301
5	8789
15	5122
25	1392
35	110
45	13

55D 55° WITH NO LENS



WATTS: 33.8	LPW: 83.2
LUMENS: 2812	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	3684
5	3706
15	3523
25	2318
35	596
45	45

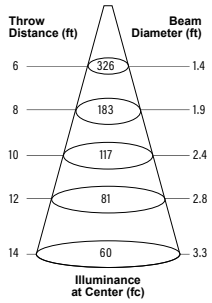
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

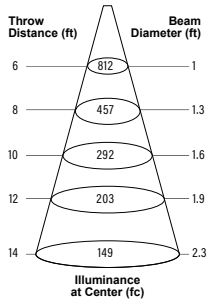
10LM CCT MULTIPLIERS	
	90CRI
2700K	0.96
3000K	1
3500K	1.01
4000K	1.02
FC Formula = CBCP / Distance	

15D 13.5° WITH NO LENS



WATTS: 11.5	LPW: 82.3
LUMENS: 947	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	11723
5	7877
15	1068
25	56
35	9
45	0

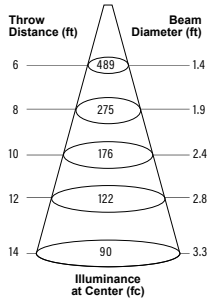
9D 9.2° WITH NO LENS



WATTS: 17.7	LPW: 59.4
LUMENS: 1051	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	29219
5	12946
15	422
25	57
35	10
45	0

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

15D 13.5° WITH NO LENS



WATTS: 18.5	LPW: 76.9
LUMENS: 1422	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	17603
5	11828
15	1604
25	85
35	14
45	0

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

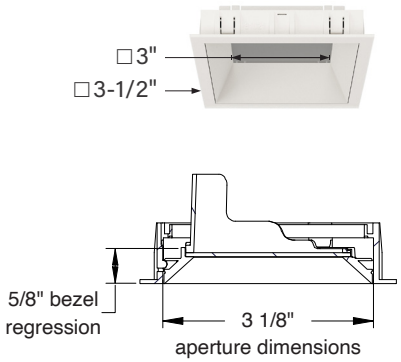
TRIM OPTIONS

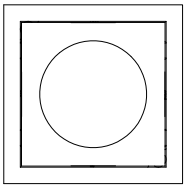
TRIM/BEZEL COLORS



WH MC BK BZ CC

TRIMMED

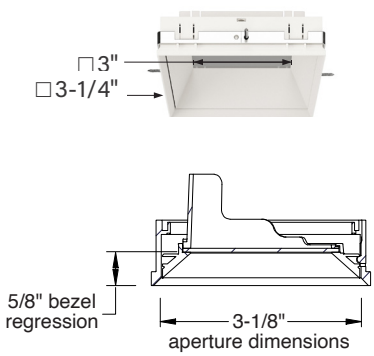


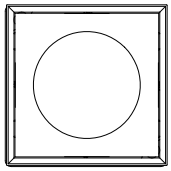


ceiling cutout
3-1/4" square

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

MILLWORK

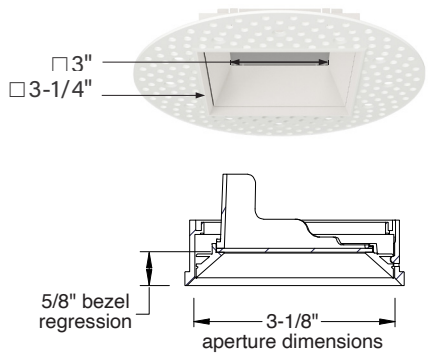


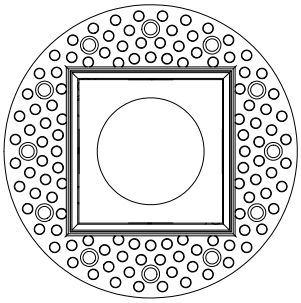


ceiling cutout
3-9/32" square

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

TRIMLESS





ceiling cutout
3-1/2" square

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

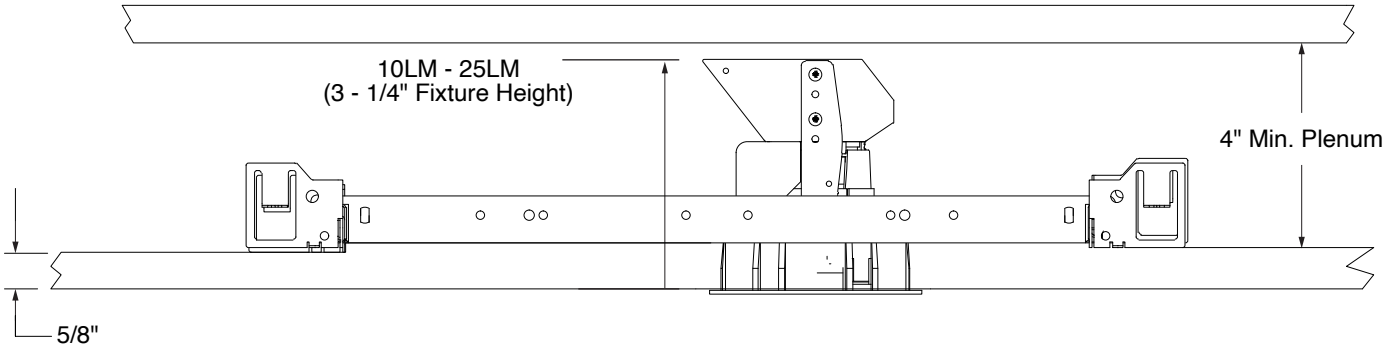
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

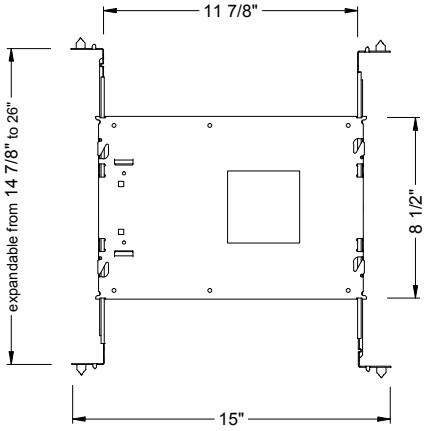
RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✔	✔			
TYPE IC			✔	✔	
CHICAGO PLENUM (CCEA)					✔
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔	✔	✔	✔	✔

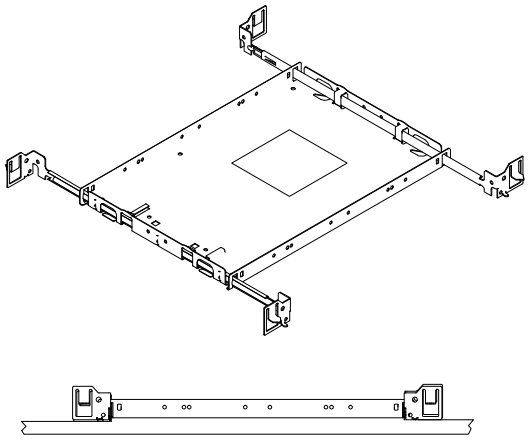
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-1/4"	3-1/4" square
TRIMLESS	1/4" to 1-1/4"	3-1/2" square
MILLWORK (TRIMLESS)	1/8" to 1-1/4"	3-9/32" square

PLENUM HEIGHT



NEW CONSTRUCTION - NC



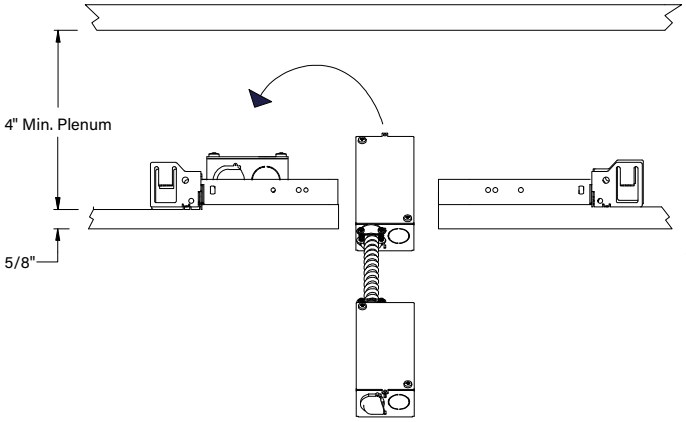


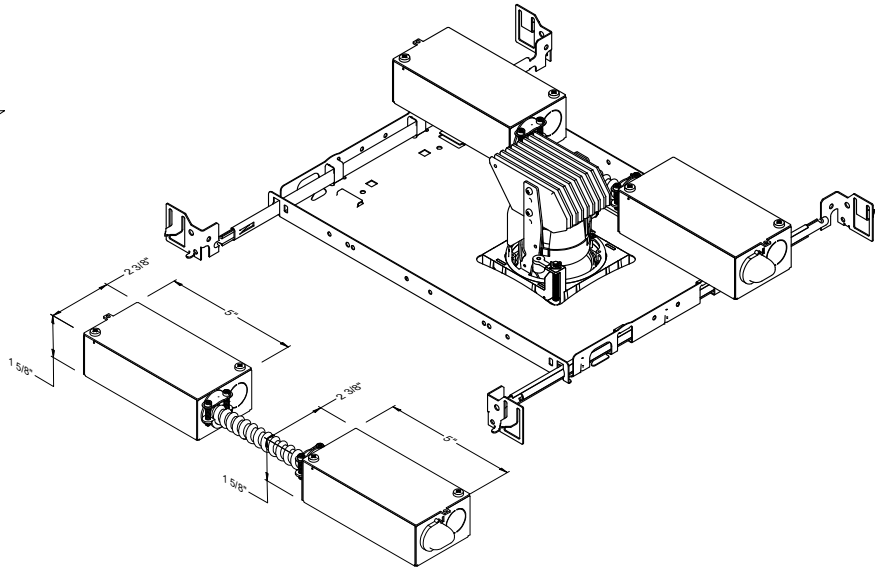
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

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

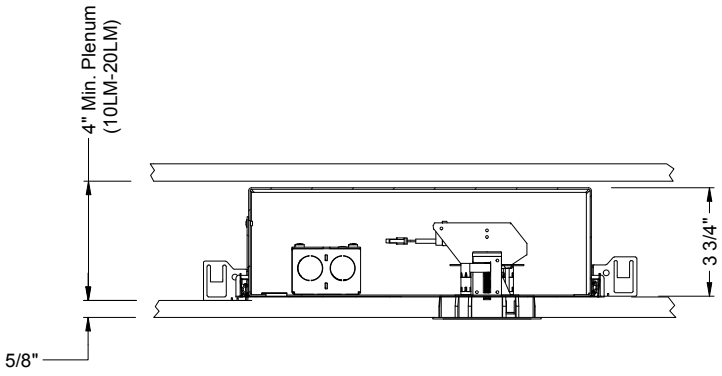


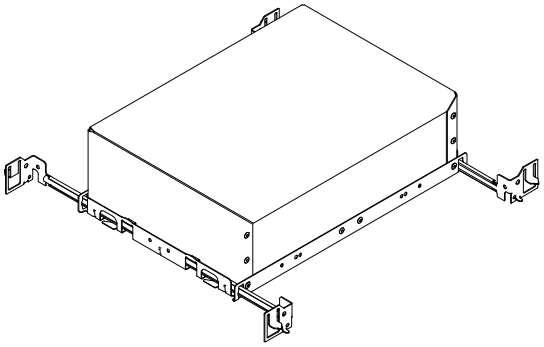


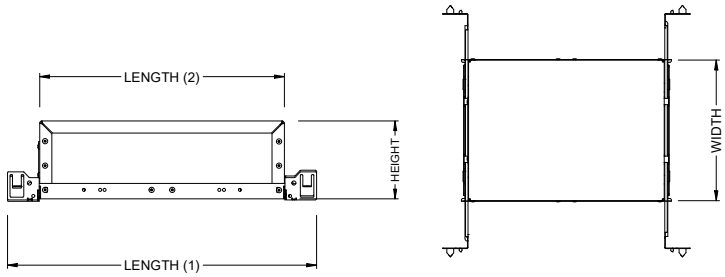
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

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 - STANDARD BEAMS (20°-98°)			
LUMEN OUTPUT	BOX-A		
	CP	IC	ICAT
10LM	✔	✔	✔
15LM	✔	✔	✔
20LM	✔	✔	✔
25LM			

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

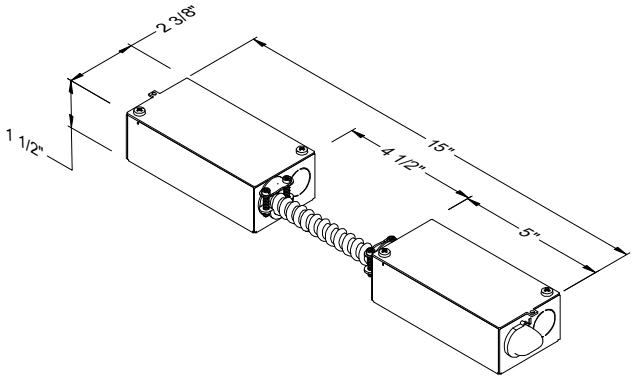
BOX TYPE / LUMEN OUTPUT - NARROW BEAM (9.5°)			
LUMEN OUTPUT	BOX-A		
	CP	IC	ICAT
10LM			

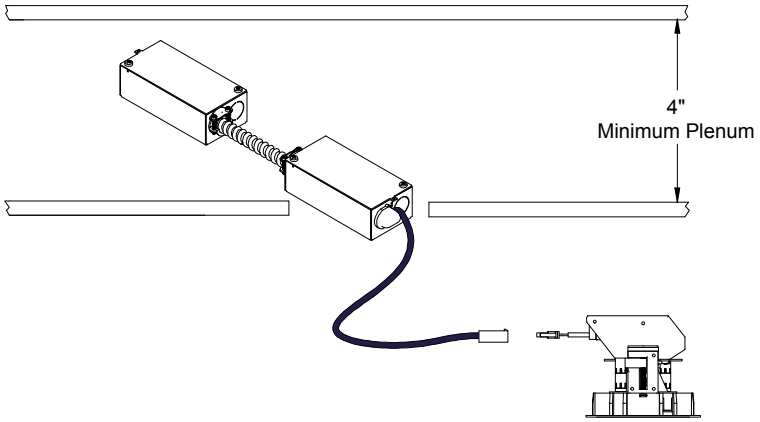
SPRAY FOAM R60 RATED	
LUMEN OUTPUT	BOX-A
10LM	✔
15LM	✔
20LM	
25LM	

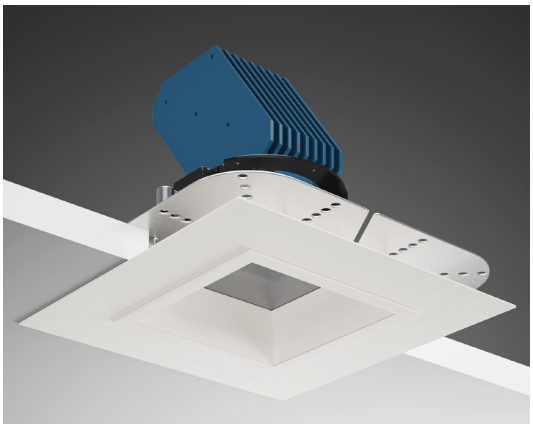
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

RETRO OPTIONS

10LM - 25LM (DIM10 / BDIM10 / 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]
	3.89" to 4.5"		GF-3Q-2-XX[3]
NU3-QD NU3-QA NU3-QW	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.

101442

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

LOW VOLTAGE OPTIONS

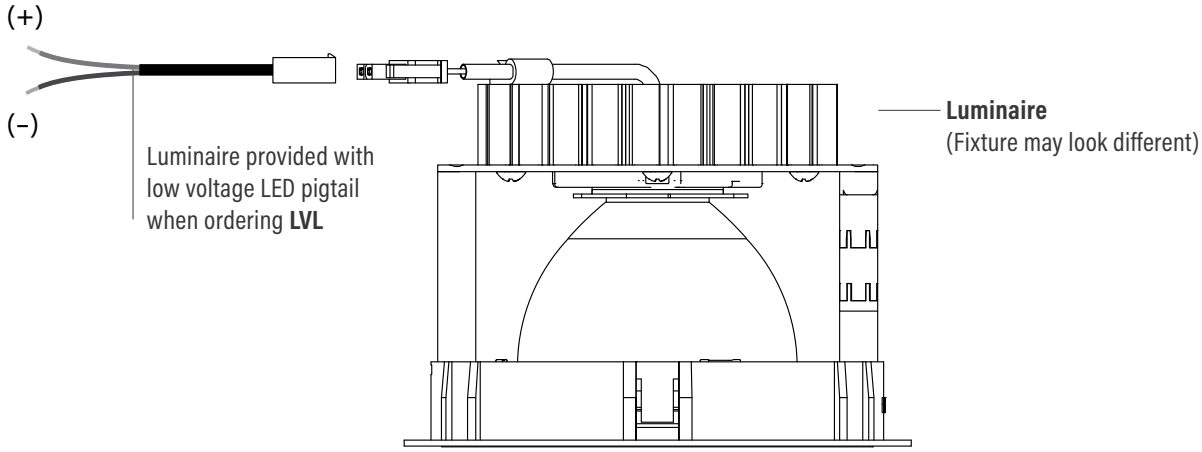
20° - 98° BEAM (Note: Specifications are subject to change without notice)			
9mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	950LM @30K/90CRI	200mA	7.5W
15LM	1470LM @30K/90CRI	325mA	12W
20LM	1950LM @30K/90CRI	450mA	16.5W
25LM	2400LM @30K/90CRI	575mA	21W
Notes	Delivered lumens based on 35° 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	950LM @ 30K/90CRI	250mA	9W
15LM	1420LM @ 30K/90CRI	400mA	14.5W
Notes	Delivered lumens based on 15° optic with no lens, (see page 2)		

9.5° BEAM (Note: Specifications are subject to change without notice)			
4.5mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	1050LM @ 30K/90CRI	350mA	13W
Notes	Delivered lumens based on 9° optic with no lens, (see page 2)		

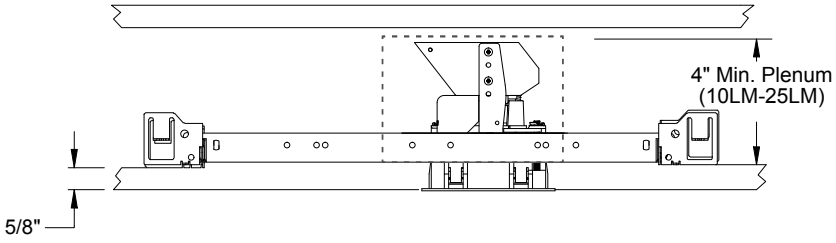
NOMINAL LED VOLTAGE: 36VDC

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

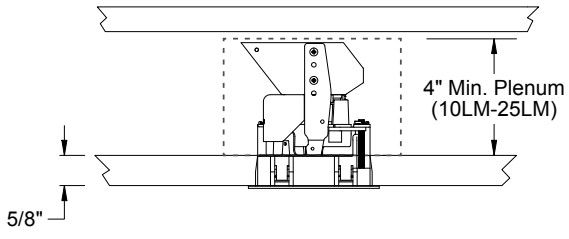


PLENUM HEIGHT

(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

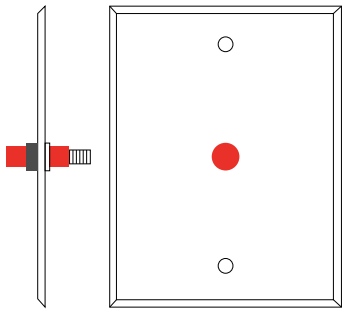
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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.

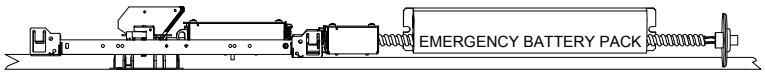


Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 25LM)	750LM	1010LM	1200LM
Notes : Based on 30K, 90CRI			

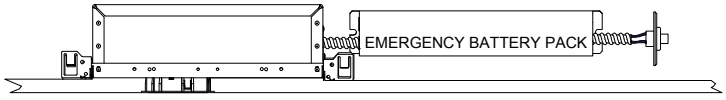
NC - NEW CONSTRUCTION

WITH EM BATTERY (REMOTE TEST SWITCH)

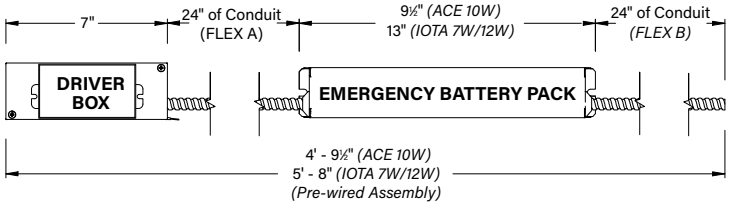


IC - INSULATION CONTACT HOUSING

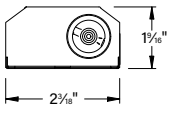
WITH EM BATTERY (REMOTE TEST SWITCH)



REMOTE BATTERY DIMENSIONS



EMERGENCY BATTERY PACK



DRIVER BOX

