alphabet

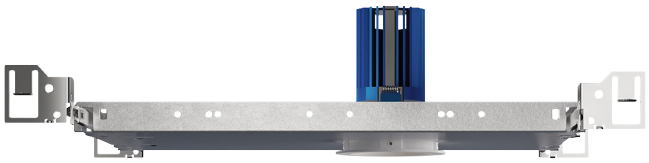
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU2

2" Square Downlight Warm Dim

NSF · AT airtight · PR plenum rated · wet rated · BABA•BAA

20° - 60° BEAM (Note: Specifications are subject to change without notice)		
6mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
05LM	530LM @30K/90CRI	7W
10LM	1050LM @30K/90CRI	14W
12LM	1210LM @30K/90CRI	16W
Notes	Delivered lumens based on 35D optic with no lens, (see page 2)	



FEATURES
- 1/2" bezel regress with 3/8" micro flange
- UGR < 17
- 93 LPW average
- 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, 0.1% and 1%
- BAA - BABA compliant, flicker free 0-10V dim to 1%
- eldoLED DALI, dim to 0.1% and 1%
- DMX-512/RDM dim to 0%
- Lutron Hi-Lume Ecosystem, dim to 1% and 0.1%
- Leading & trailing edge (Triac/ELV), dim to 0%
- Wireless control options, dim to 1% (Ref. page 11)

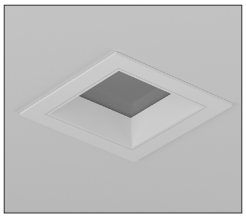
CONSTRUCTION
- High-grade die-cast and cold forged aluminum alloy assembly with superior thermal and corrosion resistant properties
- Shatter proof acrylic bezel lens
- 20-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/8" to 2"
- **CUTOUT DIMENSIONS:**
  Trim - 2-5/8" x 2-5/8"
  Trimless - 2-5/8" x 2-5/8"
  Millwork - 2-5/16" x 2-5/16"

LED
- Luminus Dim-to-warm COB: 90 CRI: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L_{70} > 54,000 hrs

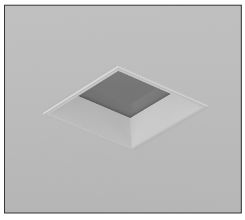
LISTING
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- 5 Year Limited warranty

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

TRIM OPTIONS



Trimmed

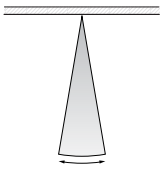


Trimless

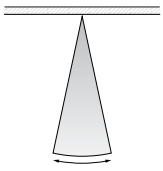


Trimless Millwork

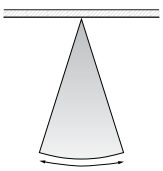
BEAM SPREADS



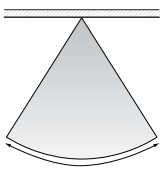
20˚



25˚



35˚



65˚

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU2**	NU2	
TYPE	**SD**	square downlight	
	SDT[1]	square downlight trimless	
	SDTMW[2]	square downlight trimless millwork	
LED	**WD**	warm dim (Luminus)- halogen curve	
DELIVERED LUMENS	**05LM**[3]	520 lm	
	10LM	1080 lm	
	12LM	1240lm	
	Standard Configuration: 3000K 97CRI 35D, **CL**		
	Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]		
CCT	**2718**	2700K, dim to 1800K	
	3018	3000K, dim to 1800K	
	3020	3000K, dim to 2000K	

CCT at Light Level (%LF)

%LF	2718	3018	3020
100%	2710	3050	3050
50%	2670	2990	3000
25%	2570	2850	2850
10%	2090	2200	2240
5%	1880	1880	1980

CRI	**90**	90 CRI	
OPTIC & LM MULTIPLIER	**20D**	20 degrees	(0.97)
	25D[4]	25 degrees	(0.98)
	35D	35 degrees	(1.00)
	60D	60 degrees	(0.80)
BEZEL LENS	**NL**	no lens	(1.00)
	CL	clear lens	(0.93)
	DL	diffused lens	(0.90)
	HCL	honeycomb louver	(0.72)
	HET	high efficiency textured lens, similar to Solite™	(0.92)
	SBL	smoothing beam lens	(0.93)
	Maximum 2pcs of media per fixture.		
TRIM COLOR	**BK**	black	(0.98)
	WH	white	(1.00)
	MC	matte chrome	(0.99)
	BZ	bronze	(0.98)
	CC[5]	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[5]	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
	NC-F	new construction plate, fixed driver
	NCINH[6]	new construction with ceiling fitting plate, IC rated, inherently protected
	IC[7]	insulation contact housing
	ICAT[7]	insulation contact/airtight housing
	CP[7]	chicago plenum housing
	RET	retrofit, no ceiling plate
	RETINH[6]	retrofit, no ceiling fitting plate, IC rated, inherently protected
VOLTAGE	**120**	120V
	UNV	120V-277V
	LVL[8]	low voltage luminaire
DIMMING	**DIM10**	eldoLED flicker free 0-10V dim to 1%
	BDIM10	BAA – BABA compliant, flicker free 0-10V dim to 1%
	DIM10Z	eldoLED flicker free 0-10V dim 0.1%
	DALI	eldoLED flicker free DALI-2 dim to 1%
	DALIZ	eldoLED flicker free DALI-2 dim to 0.1%
	LUTP	Lutron Hi-Lume Eco (fade) dim to 0.1%
	ELV1[9, 10]	leading edge & trailing edge (Triac/ELV) dim to 1%
	DMX-RJ45	DMX control dimming to 0.1% with RJ45 connection
	DMX-WL	DMX-512/RDM dim to 0% with lead wire input
	DMX-XLR	DMX-512/RDM dim to 0% with XLR input
	NLT	nLight control interface: Cat-5/RJ45, dim to off
	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:

NU2 - SD - WD - 12LM - 3018 - 90 - 35D - CL - WH - WH - NC - UNV - DIM10 - EM7

COMPATIBILITY - MOUNTING / ACCESSIBILITY / DIMMING

DIMMING	NC-F	NC	IC	ICAT	CP	RET
	FIXED	FLOATING	FLOATING	FLOATING	FLOATING	FLOATING
DIM10	✔	✔	✔	✔	✔	✔
DIM10Z	✔					
BDIM10	✔	✔	✔	✔	✔	✔
DALI	✔	✔	✔	✔	✔	✔
DALIZ	✔					
LUTP	✔	✔	✔	✔	✔	✔
ELV1	✔	✔	✔	✔	✔	✔
ND	REMOTE POWER SUPPLY					

Fixed driver - above ceiling access required (grid / T-Bar ceiling)

Floating driver - below ceiling accessible (gypsum / hard lid ceiling)

NOTES

1. Available in DIM10/BDIM10 only, floating single knockout box.
2. Above ceiling access and 8in min. plenum space required, LVL only.
3. 05LM 1:1 linear dimming.
4. 25D standard with HET, one additional lens only.
5. Custom set up fee plus minimum quantity required per color.
6. RETINH/NCINH available in 05LM.
7. IC/ICAT/CP not available in 12LM.
8. Must select ND dimming code, for remote driver or POE specifications see page 10.
9. ELV1 available in 120V.
10. Available in NC-F for SDT.

* EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

101524

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
- Calculations based on 12LM fixtures, unless otherwise noted

CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
20D	19	<10
35D	36	<10
60D	60	<10

NL
No Lens



OPTIC	BEAM ANGLE	UGR
20D	19	<10
35D	36	<10
60D	60	<10

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D	22	<10
25D	25	<10
35D	35	<10
60D	58	<10

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
20D	35	10.8
25D	36	11.6
35D	43	13
60D	60	19

E
Elliptical Lens



OPTIC	BEAM ANGLE	UGR
20D	35x57	13x17
25D	37x59	14x18
35D	43x64	15x20
60D	59x76	20x24

SBL
Smoothing Beam Lens



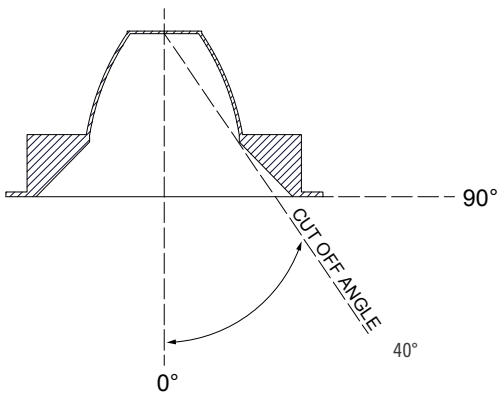
OPTIC	BEAM ANGLE	UGR
20D	20	<10
35D	36	<10
60D	59	<10

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 of NL and CL is 40 degrees;



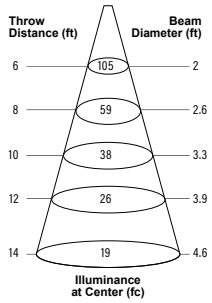
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

05LM

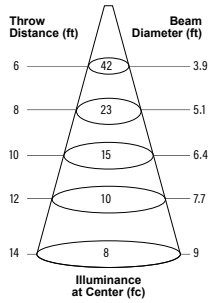
20D 18.5° NO LENS



WATTS: 6.7	LPW: 75.9
LUMENS: 509	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	3787
5	3236
15	644
25	91
35	16
45	4

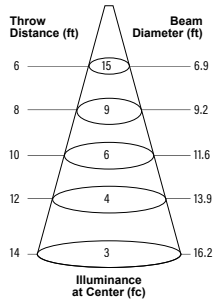
35D 36° NO LENS



WATTS: 6.7	LPW: 78.8
LUMENS: 528	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1497
5	1433
15	965
25	242
35	20
45	4

60D 60° NO LENS

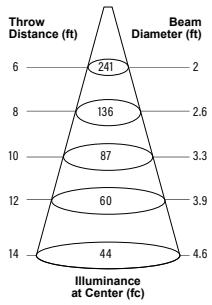


WATTS: 6.7	LPW: 71.2
LUMENS: 477	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	550
5	552
15	519
25	389
35	133
45	12

12LM

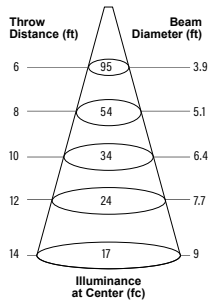
20D 18.5° NO LENS



WATTS: 15.8	LPW: 73.7
LUMENS: 1165	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	8677
5	7413
15	1476
25	208
35	36
45	9

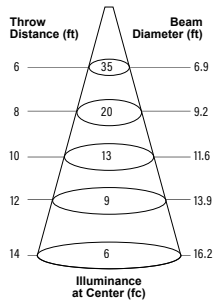
35D 36° NO LENS



WATTS: 15.8	LPW: 76.5
LUMENS: 1209	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	3429
5	3283
15	2210
25	555
35	47
45	9

60D 60° NO LENS



WATTS: 15.8	LPW: 69.1
LUMENS: 1092	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1260
5	1264
15	1188
25	892
35	304
45	27

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

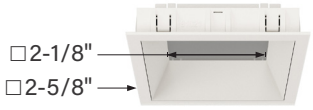
TRIM OPTIONS

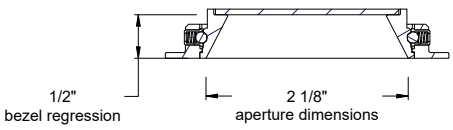
TRIM/BEZEL COLORS

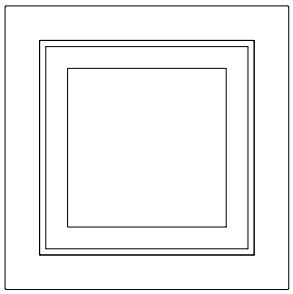


WH MC BK BZ CC

TRIMMED



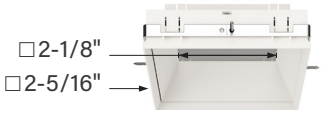


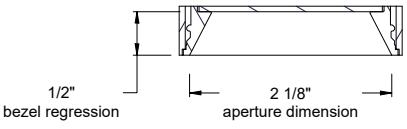


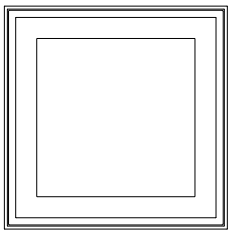
ceiling cutout
2-5/8" square

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

MILLWORK



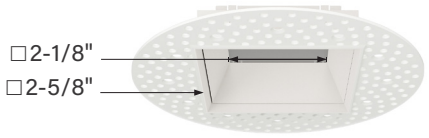


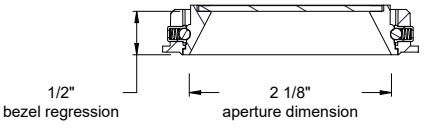


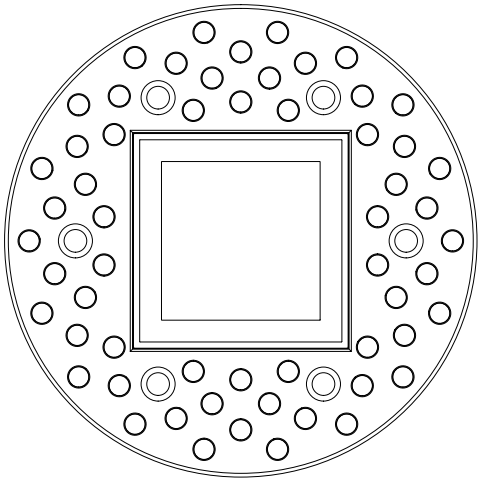
ceiling cutout
2-5/16" square

ceiling thickness
3/8" to 2"

TRIMLESS







ceiling cutout
2-5/8" square

ceiling thickness
3/8" to 2"

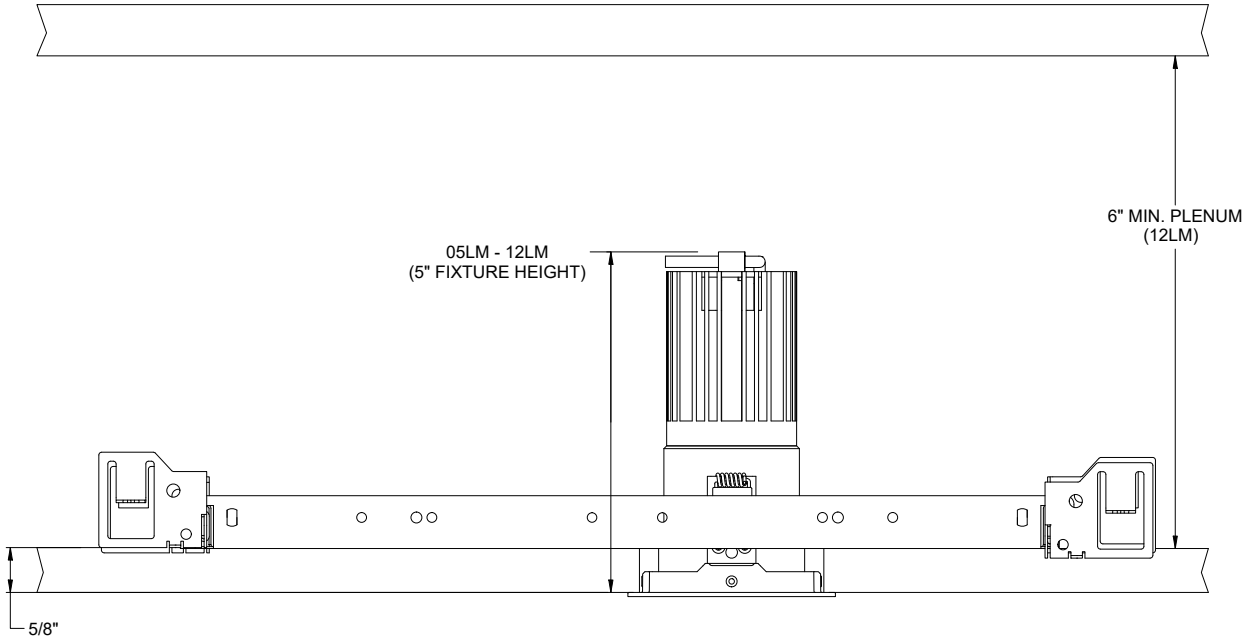
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

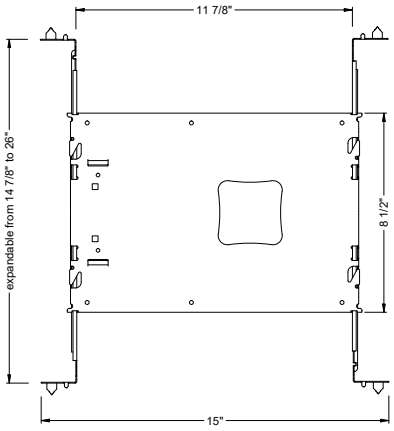
RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✔	✔			
TYPE IC			✔	✔	✔
CHICAGO PLENUM (CCEA)					✔
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔	✔	✔	✔	✔

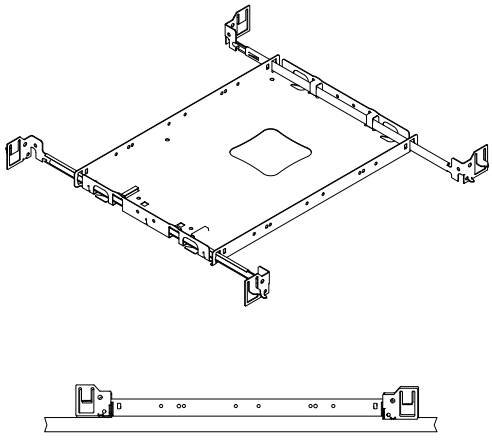
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-3/4"	2-5/8"
TRIMLESS	3/8" to 2"	2-5/8"
MILLWORK (TRIMLESS)	3/8" to 2"	2-5/16"

PLENUM HEIGHT



NEW CONSTRUCTION - NC



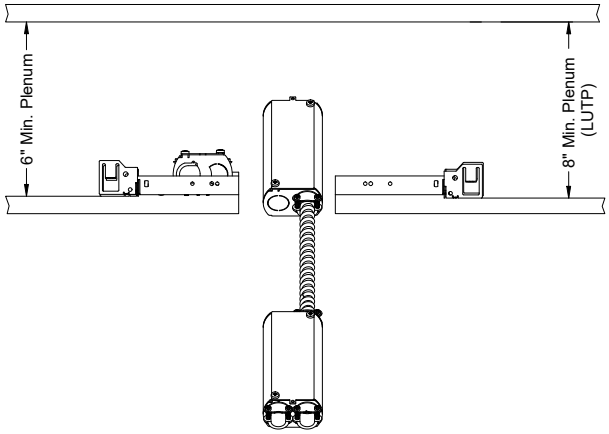


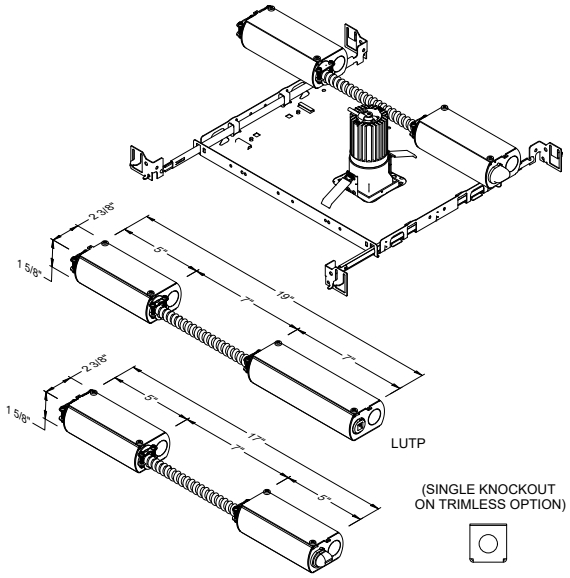
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

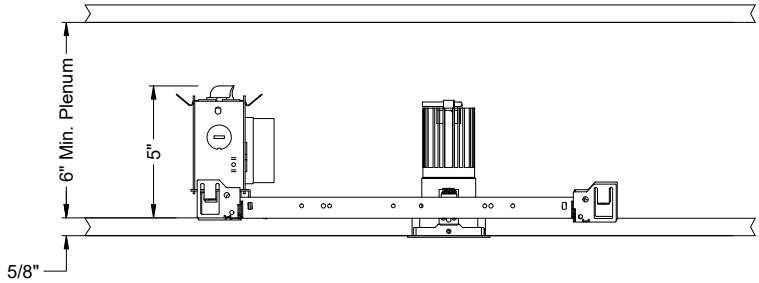
MOUNTING OPTIONS

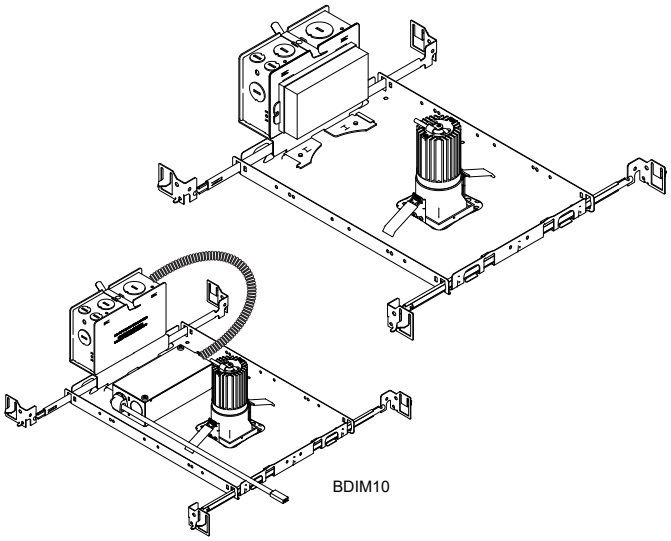
05LM-12LM (DIM10 / BDIM10 / DALI / ELV1 / LUTP) - FLOATING
(BELOW CEILING ACCESSIBLE)



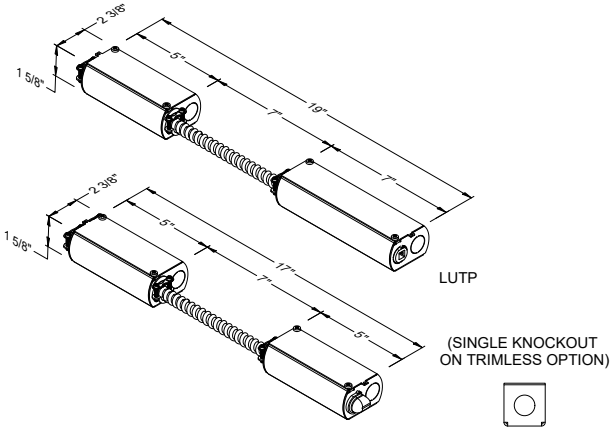


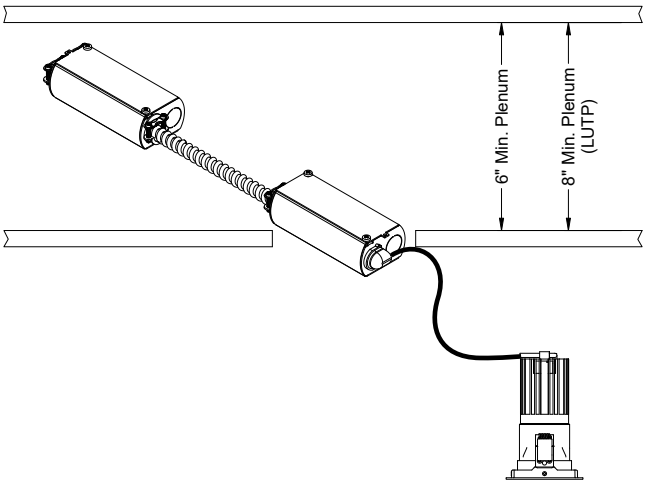
05LM-12LM (DIM10 / BDIM10 / DIM10Z / DALI / DALIZ / ELV1 / LUTP) - FIXED
(ABOVE CEILING ACCESS REQUIRED)





05LM-12LM (DIM10 / BDIM10 / DALI / ELV1 / LUTP) - FLOATING
(BELOW CEILING ACCESSIBLE)



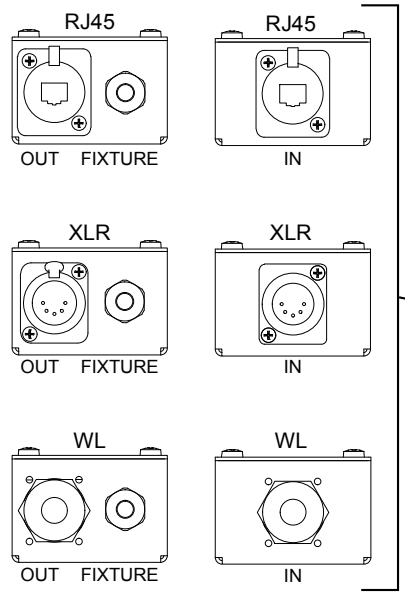


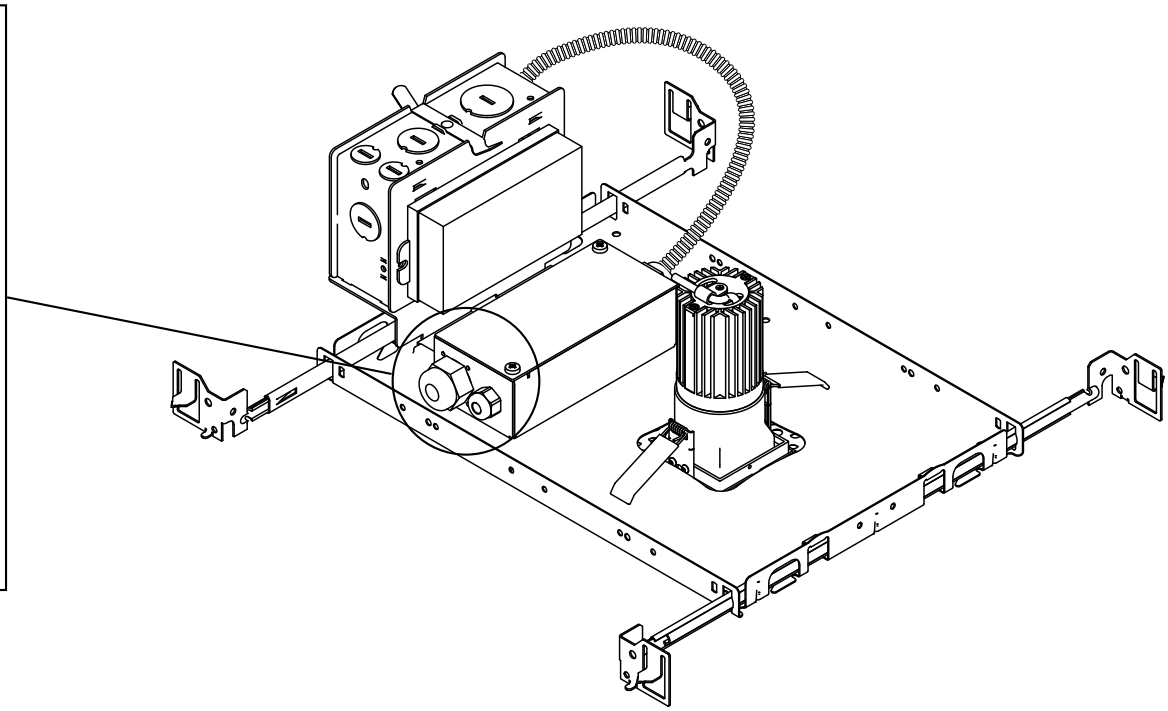
101524

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

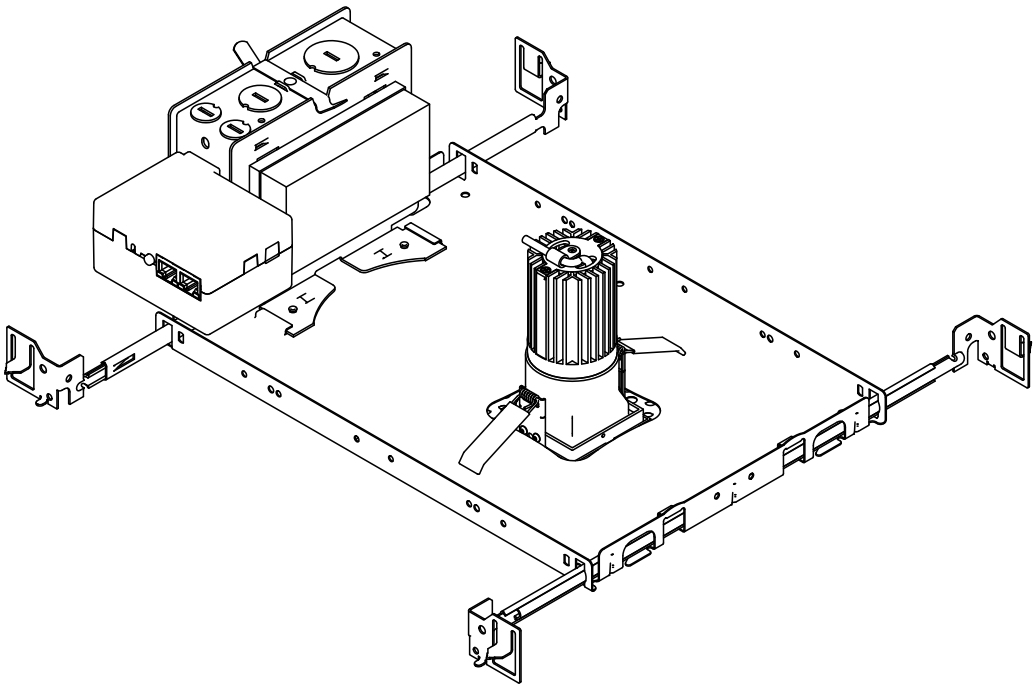
MOUNTING OPTIONS

05LM-12LM (DMX) - FIXED
(ABOVE CEILING ACCESS REQUIRED)





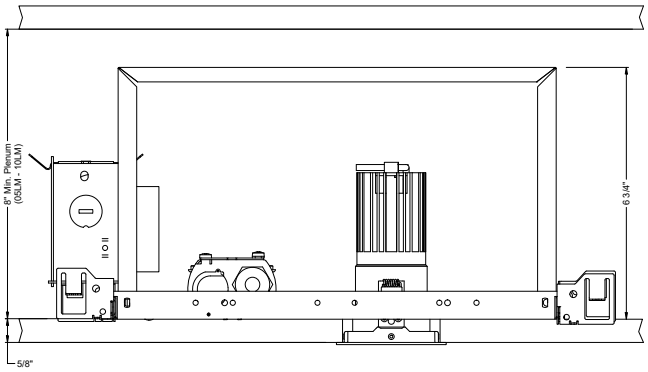
05LM-12LM (NLT) - FIXED
(ABOVE CEILING ACCESS REQUIRED)

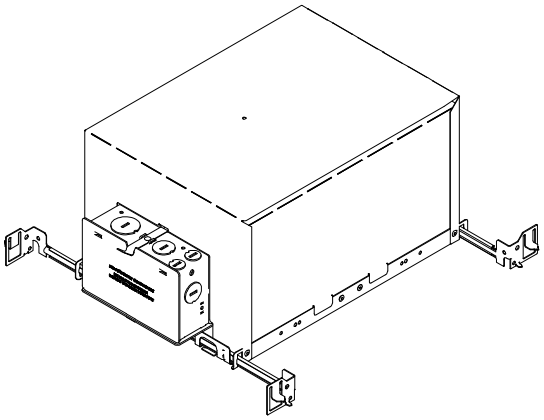


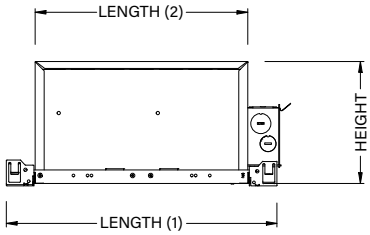
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

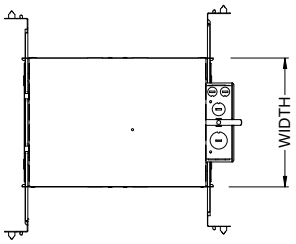
MOUNTING OPTIONS

IC - INSULATION CONTACT | ICAT - INSULATION CONTACT / AIR TIGHT | CP - CHICAGO PLENUM - FLOATING
(DIM10 / DIM10Z / DALI / DALIZ / LUTP / ELV1)









BOX SIZE	L 1	L 2	W	H
A	15 - 7/16"	11 - 3/4"	8 - 1/2"	6 - 3/4"

BOX TYPE / LUMEN OUTPUT - NARROW BEAM (20°-65°)			
LUMEN OUTPUT	BOX-A		
	CP	IC	ICAT
05LM	✔	✔	✔
10LM	✔	✔	✔
12LM			

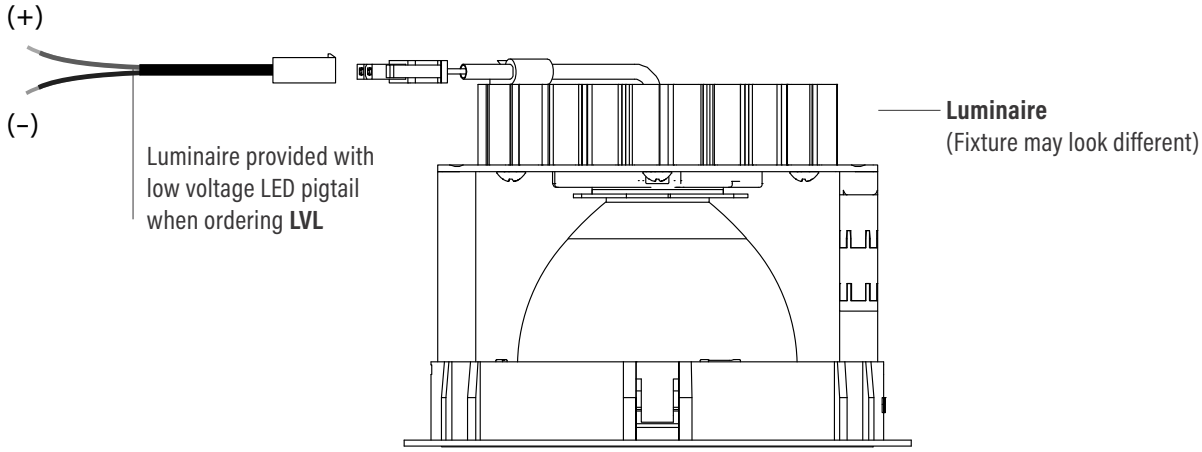
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

LOW VOLTAGE OPTIONS

20° - 60° BEAM (Note: Specifications are subject to change without notice)			
6mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
05LM	530LM @30K/90CRI	150mA	5.5W
10LM	1050LM @30K/90CRI	300mA	11W
12LM	1210LM @30K/90CRI	350mA	13W
Notes	Delivered lumens based on 35D optic with no lens, (see page 2)		

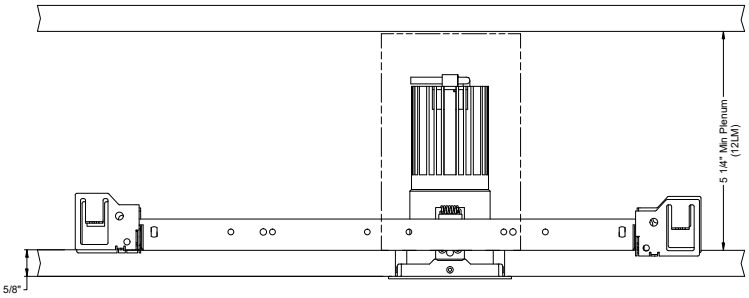
NOMINAL LED VOLTAGE: 36VDC

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

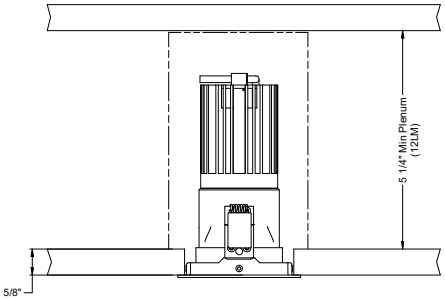


PLENUM HEIGHT

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



(RET-LVL-ND) REMOTE DX PANEL RETRO



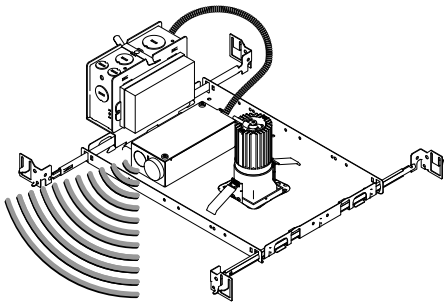
**Ref. DX panel specification sheet for remote driver options.*

alphabet

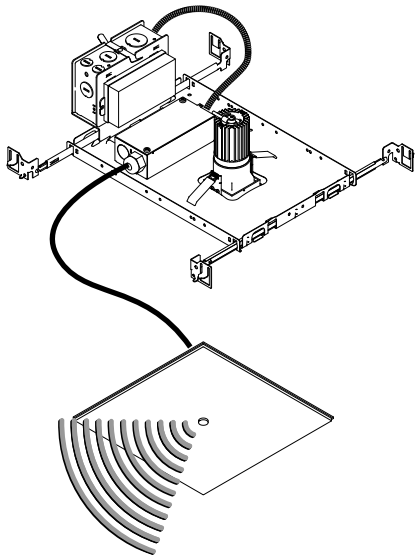
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

WIRELESS OPTIONS

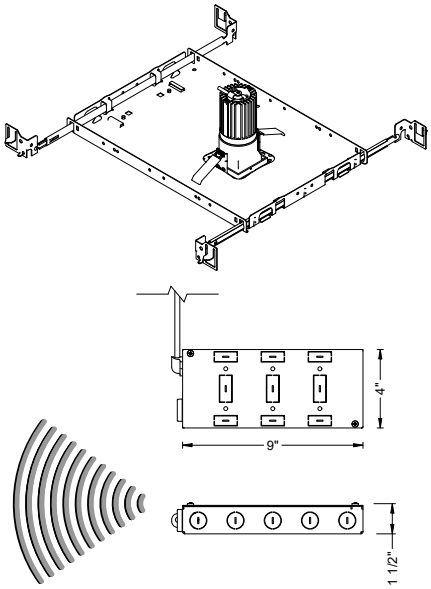
NC - NEW CONSTRUCTION - FIXED
PLENUM SIDE



NC - NEW CONSTRUCTION - FIXED
R CEILING SIDE



NC - NEW CONSTRUCTION
DX REMOTE



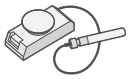
Customer must verify system design and installation with their controls provider (e.g., Lutron).
Wireless signal strength, reliability, performance, and commissioning are the responsibility of the customer. Remote DX can power LEDs up to 330FT (18 AWG), but adequate wireless signal is customers responsibility.

YOUR COMPLETED ORDERING CODE
Follow the steps to specify your fixture, example:
NU2 - SD - WD - 10LM - 3018 - 90 - 35D - NA - CL - WH - WH - NC - UNV - AWN
NU2 - SD - WD - 10LM - 3018 - 90 - 35D - NA - CL - WH - WH - NC - LVL - 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
AWND-R . . . athena wireless OCC Sensor / 4FT lead (DALI2 Driver) - ceiling installation



MODEL NUMBER

athena node model #: A-WN-D01-RF
athena OCC model #: A-WN-D01-OCC-WH

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
SENSI-R . . . SensiLUM sensor / 4FT lead (DALI2 Driver) - ceiling installation



MODEL NUMBER

CLM model #: ZBHA-CLM-DIM
SensiLUM sensor model #: EN-CLM-PIR-DD-ZB

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

101524

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

BATTERY OPTIONS

EMERGENCY BATTERY

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

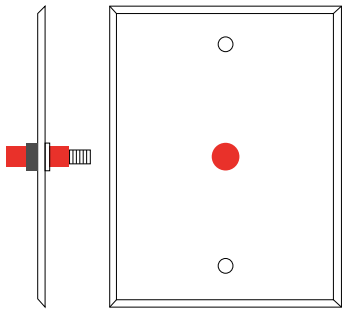
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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

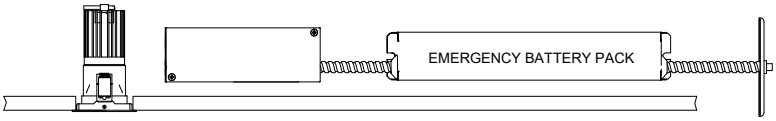
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



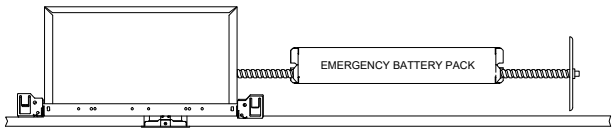
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (05LM TO 12LM)	665	950	1145
Notes: Based on 30K, 90CRI			

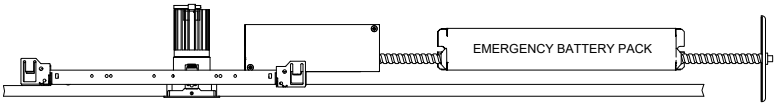
NC - NEW CONSTRUCTION
WITH EM BATTERY (REMOTE TEST SWITCH)



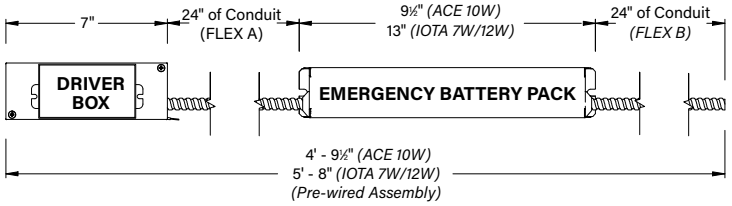
IC / ICAT / CP - INSULATION CONTACT HOUSING
WITH EM BATTERY (REMOTE TEST SWITCH)



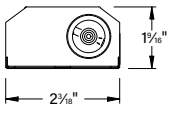
RET - RETROFIT
WITH EM BATTERY (REMOTE TEST SWITCH)



REMOTE BATTERY DIMENSIONS



EMERGENCY BATTERY PACK



DRIVER BOX

