alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU6 CORE

6" Round & Square Downlight - Static

NSF AT airtight PR plenum rated wet rated





50° - 90° BEAM (Note: Specifications are subject to change without notice)		
COB PERFORMANCE DATA		
LED LIGHT ENGINE	**NOMINAL DELIVERED LUMENS**	**SYSTEM WATTAGE**
10LM	1110LM @30K/90CRI	10W
15LM	1570LM @30K/90CRI	15W
20LM	1960LM @30K/90CRI	20W
25LM	2260LM @30K/90CRI	24W
Notes	Delivered lumens based on 70° optic, (see page 2)	

FEATURES

- Economical choice for budget projects
- Thermally optimized for LED longevity
- Fixed wattage and light source CCT
- Available in three beam angles
- Below ceiling accessible, snap-in driver method

DIMMING AND CONTROLS

- 5 CCT available: 2700, 3000K, 3500K, 4000K, 5000K
- Wattage available: 10W, 15W, 20W, 25W
- 0-10V dimming to 3%
- Leading & trailing edge (Triac/ELV) dimming to 3%

CONSTRUCTION

- Die casted aluminum heat sink
- Aluminum trim / bezel
- Easy mounting system to adjust to various ceiling thicknesses
- **CUTOUT DIMENSION:**
  Trimmed Round: 6-1/2"
  Trimmed Square: 7" x 7"

LED

- 90 CRI: SDCM 3-step MacAdam Ellipse, lumen maintenance: L_{70} >50K hours

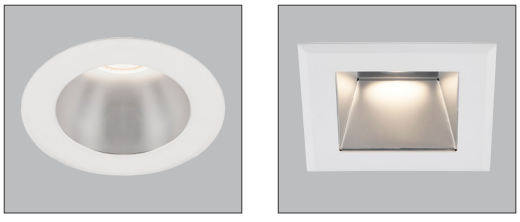
LISTING

- ULus Listed to UL1598; cUL Listed CSA C22.2 #250.0
- JA8 Compliance, for IC rated version only
- Energy Star
- Plenum Rated
- 5 Year Limited warranty

ELECTRICAL

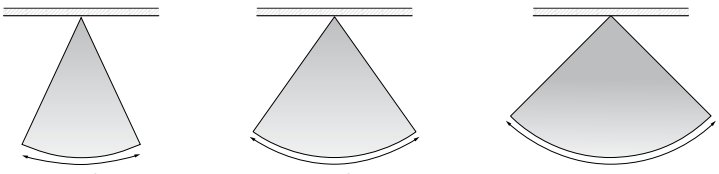
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- Remote emergency test switch & integrated test switch
- 25W EM 90 min battery, 120/277VAC input (CEC Title 20), dual flex, 0-10V compatible
- Max. ambient installation temperature 95°F (35°C)

TRIM OPTIONS



Trimmed

BEAM SPREADS



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE			
SERIES	NUC6	NU6 Core	
TYPE	QD	square downlight	(1.00)
	RD	round downlight	(1.00)
LED	SW	standard white	
DELIVERED LUMENS	10[1]	10W	
	15[1]	15W	
	20	20W	
	25	25W	
	Standard Configuration: 3000K, 90CRI, 50D **Calculated Delivered Lumens =** [Delivered Lumen Value] x [Type Multiplier] x [CCT Multiplier] x [Optic Multiplier] x [Trim Multiplier]		
CCT	27K	2700K	(0.97)
	30K	3000K	(1.00)
	35K	3500K	(1.03)
	40K	4000K	(1.05)
	50K	5000K	(1.07)
CRI	90	90 CRI	
OPTIC & LM MULTIPLIER	50D[2]	50 degrees	(0.99)
	70D	70 degrees	(1.00)
	90D[3]	90 degrees	(1.00)
TRIM COLOR	BK	black - alum. reflector	(1.00)
	WH	white - alum. reflector	(1.00)
	WHW[3]	white - white reflector	(1.04)

ORDERING CODE		
MOUNTING OPTIONS	NCIC[1]	new construction with ceiling fitting plate, insulation contact rated (no housing required)
	NC	new construction plate
	RETIC[1]	retrofit, no ceiling fitting plate, insulation contact rated (no housing required)
	RET	retrofit, no ceiling plate
VOLTAGE	120	120V
	UNV	120V-277V
DIMMING	DIM10	0-10V dimming, to 3%
	ELV[4]	leading & trailing edge dimming (Triac/ELV), dim to 3%
ELECTRICAL OPTIONS	INVB	remote emergency inverter battery backup, 90 min. at 25W, remote test switch
	INVB-ITS	emergency inverter battery backup, 90 min. at 25W, integrated test switch

YOUR COMPLETED ORDERING CODE
Follow the steps to specify your fixture, example:
NUC6 - RD - SW - 15 - 35K - 90 - 50D - WH - NCIC - UNV - DIM10

NOTES

1. NCIC and RETIC available with IC-rating up to 15W.
2. Not available for QD.
3. Available with 90D + WHW only.
4. ELV 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 15W fixtures, unless otherwise noted.

NL

No Lens



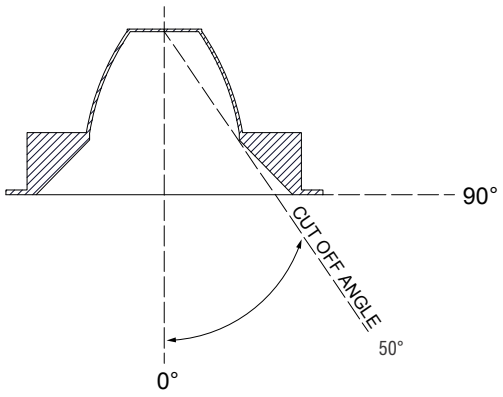
OPTIC	BEAM ANGLE	UGR
50D	63	<10
70D	72	<10
90D	90	21

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 50° degrees;



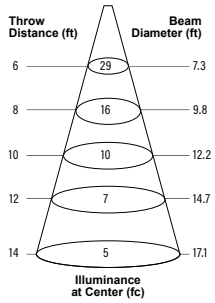
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

10W CCT MULTIPLIERS	
2700K	0.97
3000K	1
3500K	1.03
4000K	1.05
5000K	1.07
FC Formula = CBCP / Distance	

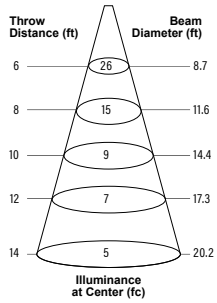
RD 50D 63° ROUND ALUM REFLECTOR



WATTS: 10.3	LPW: 106.4
LUMENS: 1096	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1028
5	1015
15	890
25	669
35	431
45	202

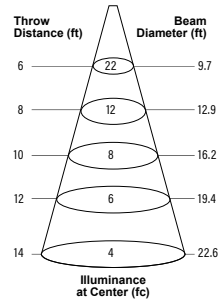
RD 70D 72° ROUND ALUM REFLECTOR



WATTS: 10.3	LPW: 108.1
LUMENS: 1113	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	946
5	925
15	791
25	631
35	488
45	237

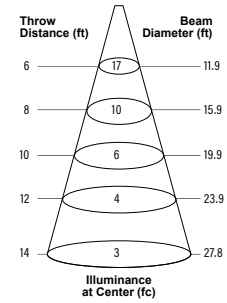
QD 70D 78° SQUARE ALUM REFLECTOR



WATTS: 10.3	LPW: 107.3
LUMENS: 1105	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	796
5	793
15	749
25	638
35	485
45	230

QD 90D 90° SQUARE WHITE REFLECTOR

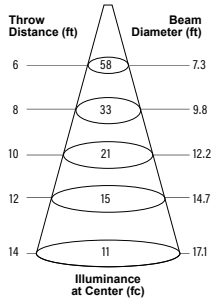


WATTS: 10.3	LPW: 113.5
LUMENS: 1169	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	623
5	619
15	590
25	533
35	458
45	308

25W CCT MULTIPLIERS	
2700K	0.97
3000K	1
3500K	1.03
4000K	1.05
5000K	1.07
FC Formula = CBCP / Distance	

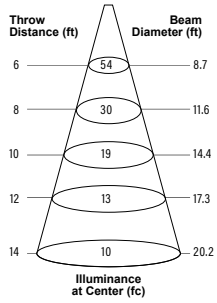
RD 50D 63° ROUND ALUM REFLECTOR



WATTS: 23.7	LPW: 94.2
LUMENS: 2232	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	2093
5	2066
15	1813
25	1363
35	878
45	411

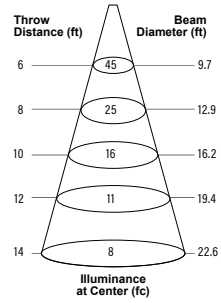
RD 70D 72° ROUND ALUM REFLECTOR



WATTS: 23.7	LPW: 95.7
LUMENS: 2267	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1926
5	1883
15	1610
25	1285
35	993
45	483

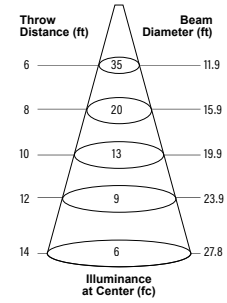
QD 70D 78° SQUARE ALUM REFLECTOR



WATTS: 23.7	LPW: 95
LUMENS: 2251	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1620
5	1616
15	1526
25	1300
35	988
45	469

QD 90D 90° SQUARE WHITE REFLECTOR



WATTS: 23.7	LPW: 100.5
LUMENS: 2381	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1268
5	1261
15	1201
25	1084
35	933
45	627

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

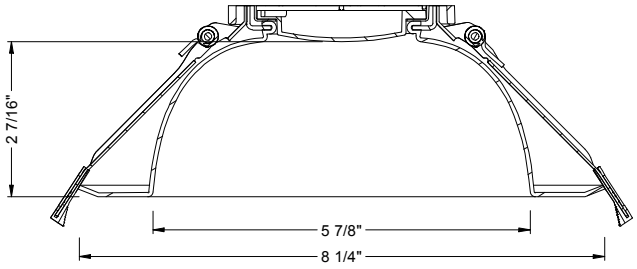
TRIM OPTIONS

TRIM/BEZEL COLORS

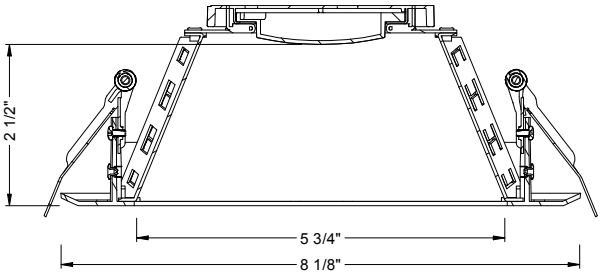


WH BK WHW

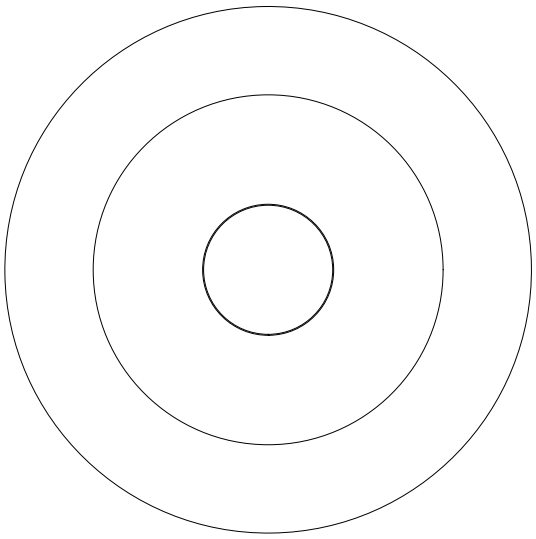
TRIMMED



aperture dimensions

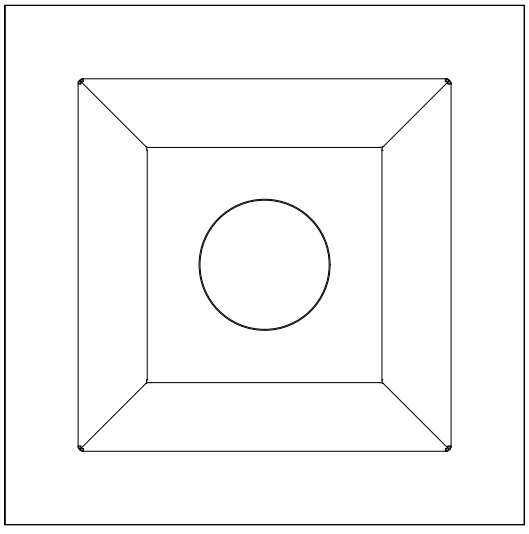


aperture dimensions



ceiling cutout
6-1/2" diameter

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



ceiling cutout
7" x 7"

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

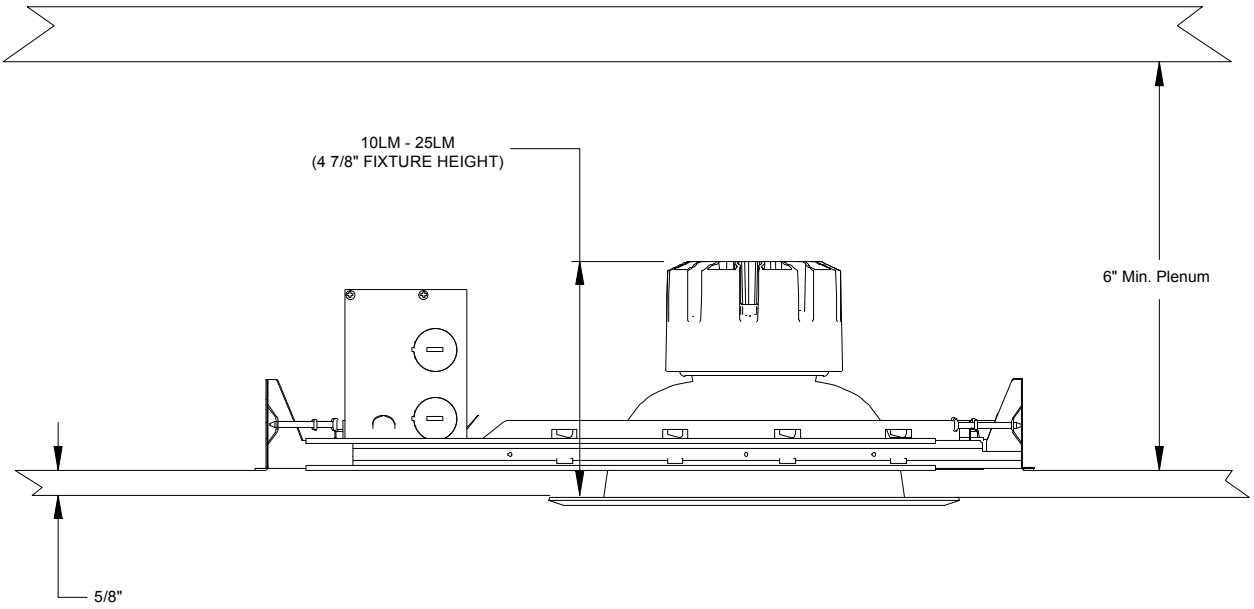
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

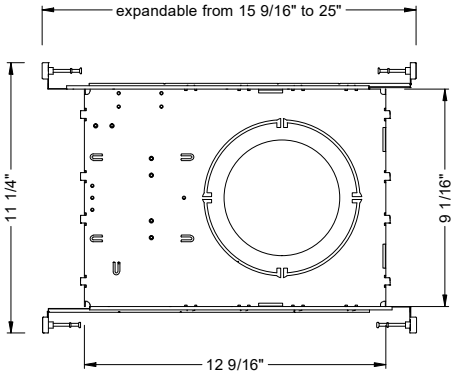
RATINGS / CERTIFICATIONS	NCIC	RETIC
TYPE NON-IC	✔	✔
TYPE IC	✔	✔
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔

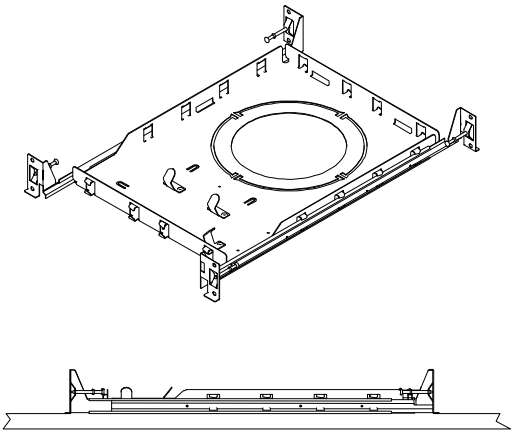
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING CUTOUT
TRIM	1/8" to 1-1/4"	6-1/2" or 7" x 7" square

PLENUM HEIGHT



NEW CONSTRUCTION - NC



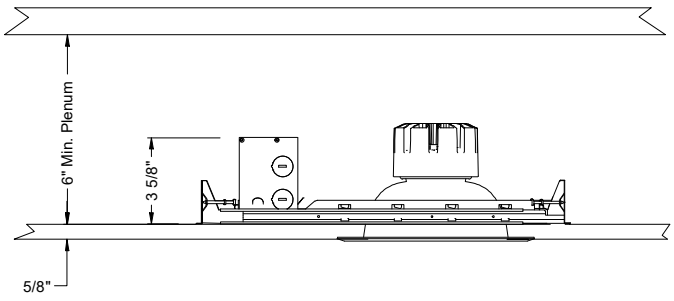


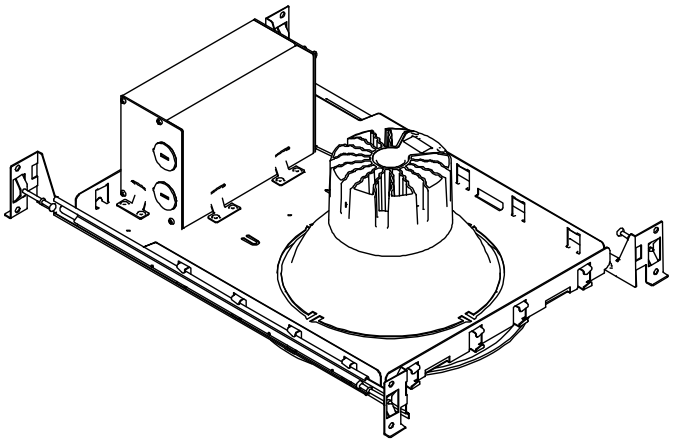
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 15-9/16" to 25"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

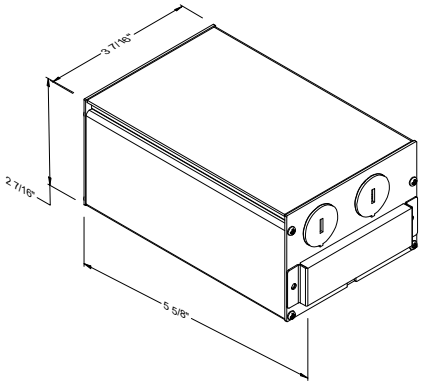
10LM-25LM (DIM10 / ELV)
(BELOW CEILING ACCESSIBLE)

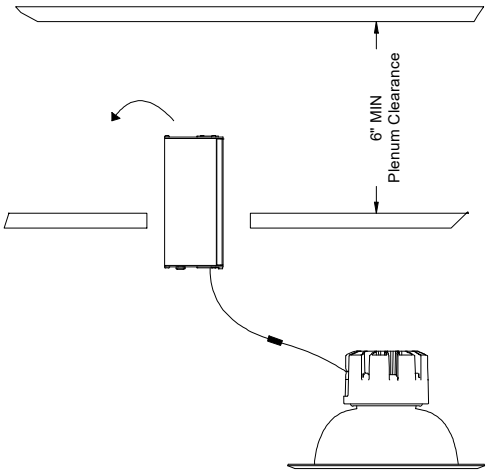




RETRO OPTIONS

10LM-25LM (DIM10 / ELV)
(BELOW CEILING ACCESSIBLE)





PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

BATTERY OPTIONS

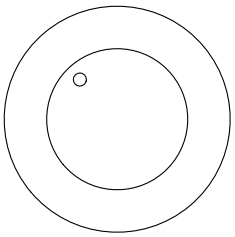
EMERGENCY BATTERY
Utilize remote batteries that are UL Listed LED emergency drivers that allow the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the remote battery switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains a battery, charger, and converter circuit in a single assembly. The Constant Power design of the remote battery maintains the output wattage to the LED array even as the system voltage diminishes. UL Listed for U.S. and Canada. 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.

INTEGRATED TEST SWITCH
The integrated test switch is mounted on reflector

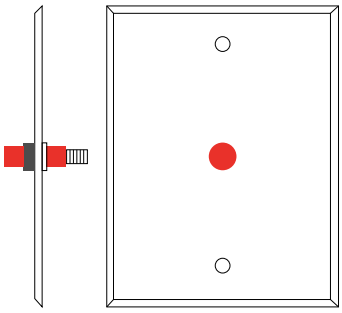
REMOTE TEST SWITCH
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS
Above ceiling access is recommended for ease of service.

REMOTE LOCATION
Maximum remote mounting distance of the emergency driver shall be 15 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.

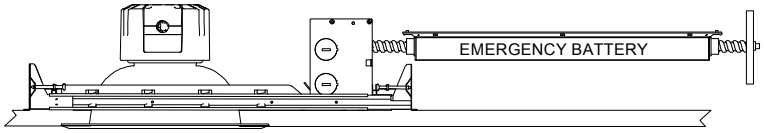


Integrated Test Switch

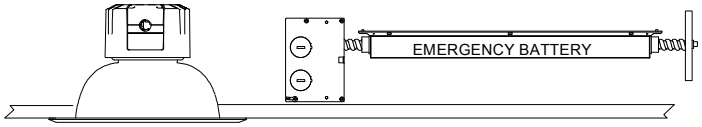


Remote Test Switch

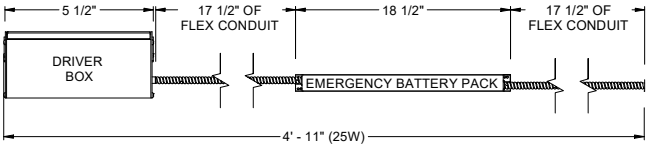
NC - NEW CONSTRUCTION
WITH EM BATTERY (REMOTE TEST SWITCH)



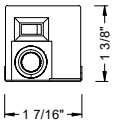
RET - RETROFIT
WITH EM BATTERY (REMOTE TEST SWITCH)



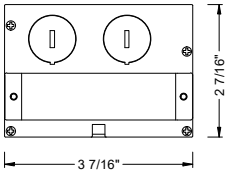
REMOTE BATTERY DIMENSIONS



EMERGENCY BATTERY PACK



DRIVER BOX



Alphabet By Ledra Brands Inc. | 88 Maxwell Irvine, CA 92618 | **PH:** 714.259.9959 **FAX:** 714.259.9969 | www.Alphabetlighting.com

In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.