alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU4 CORE

4" Round & Square Downlight - Select

NSF AT airtight PR plenum rated wet rated





50° - 70° BEAM (Note: Specifications are subject to change without notice)		
COB PERFORMANCE DATA		
LED LIGHT ENGINE	**NOMINAL DELIVERED LUMENS**	**SYSTEM WATTAGE**
10LM	1090LM @30K/90CRI	10W
15LM	1550LM @30K/90CRI	15W
20LM	1930LM @30K/90CRI	20W
25LM	2230LM @30K/90CRI	24W
Notes	Delivered lumens based on 70° optic, (see page 2)	

FEATURES

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

DIMMING AND CONTROLS

- 5 CCT selectable: 2700/3000K/3500K/4000K/5000K
- 3 Wattage selectable: 10W/15W/20W or 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: 4-7/8"
  Trimmed Square: 5" x 5"

LED

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

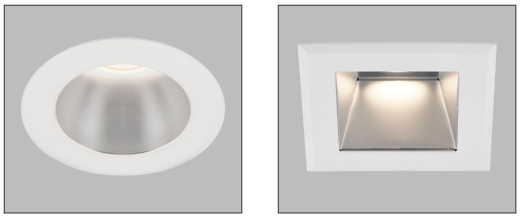
LISTING

- ULus Listed to UL1598; cUL Listed CSA C22.2 #250.0
- JA8 certified
- Energy Star
- 5 Year Limited warranty

ELECTRICAL

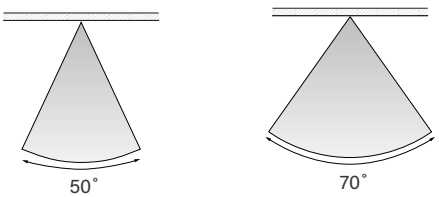
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- Remote emergency test switch & integrated test switch
- 25W EM 90 min battery, 120/277VAC input (CEC Title 20), dual flex, 0-10V compatible
- Max. ambient installation temperature 95°F (35°C)

TRIM OPTIONS



Trimmed

BEAM SPREADS



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE			
SERIES	NUC4	NU4 Core	
TYPE	QD	square downlight	(0.90)
	RD	round downlight	(1.00)
LED	SW	standard white	
DELIVERED LUMENS	3PW1[1]	selectable wattage:10W, 15W, 20W	
	3PW2[1]	selectable wattage:15W, 20W, 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	5CCT	selectable CCT: 2700/3000K/3500K/4000K/5000K	

CCT	2700K	3000K	3500K	4000K	5000K
CRI	90+	90+	90+	90+	90+
CCT MULTIPLIER FOR LUMEN OUTPUT	0.97	1	1.03	1.05	1.07

CRI	90	90 CRI	
OPTIC & LM MULTIPLIER	50D[2]	50 degrees	(1.00)
	70D	70 degrees	(1.00)
TRIM COLOR	BK	black - alum. reflector	(1.00)
	WH	white - alum. reflector	(1.00)
	WHW[3]	white - white reflector	(0.90)

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:
NUC4 - RD - SW - 3PW1 - 5CCT - 90 - 50D - WH - NCIC - UNV - DIM10

NOTES

1. NCIC and RETIC available with IC-rating up to 15W.
2. Not available for QD (square downlight).
3. Available with 70D 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



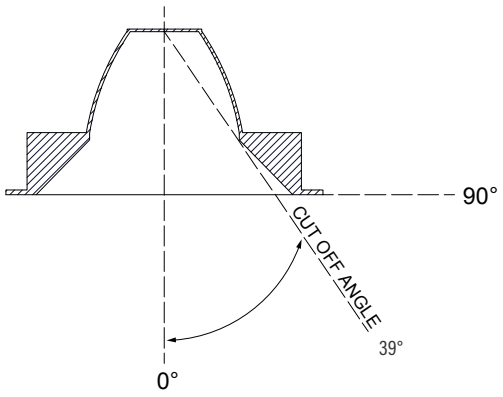
OPTIC	BEAM ANGLE	UGR
50D	47	<10
70D	71	14.9
70D-WHW	70	25

GLARE CONTROL

CUT-OFF ANGLE

Visual comfort is achieved with a lower cut-off angle due to improved glare control. The smaller the cut-off angle, the easier it is on the eye.
Alphabet downlights have been thoughtfully engineered to eliminate glare while still delivering functional illumination.

- Cutoff angle is 39° degrees;



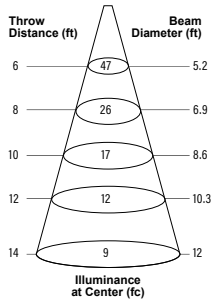
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

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

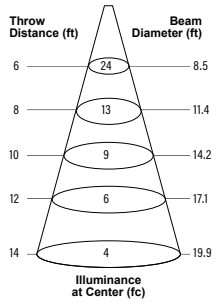
RD 50D 47° ROUND ALUM REFLECTOR



WATTS: 10.3	LPW: 106.2
LUMENS: 1094	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1675
5	1623
15	1217
25	762
35	329
45	62

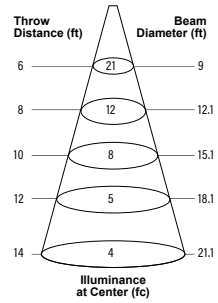
RD 70D 71° ROUND ALUM REFLECTOR



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

INTENSITY	
DEGREE	CANDELA
0	850
5	846
15	771
25	669
35	436
45	197

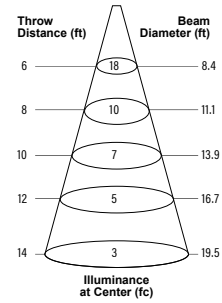
QD 70D 73° SQUARE ALUM REFLECTOR



WATTS: 10.3	LPW: 96.6
LUMENS: 995	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	677
5	684
15	723
25	679
35	404
45	141

QD 70D-WHW 70° SQUARE WHITE REFLECTOR

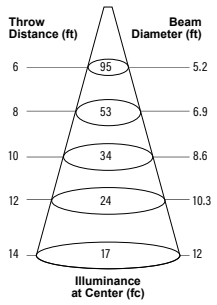


WATTS: 10.3	LPW: 92.5
LUMENS: 953	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	662
5	658
15	623
25	544
35	328
45	130

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

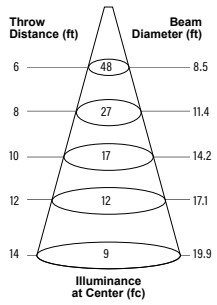
RD 50D 47° ROUND ALUM REFLECTOR



WATTS: 23.7	LPW: 94
LUMENS: 2228	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	3412
5	3306
15	2478
25	1552
35	670
45	127

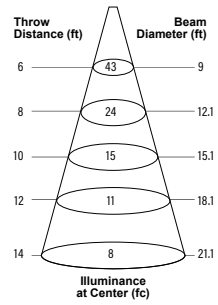
RD 70D 71° ROUND ALUM REFLECTOR



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

INTENSITY	
DEGREE	CANDELA
0	1732
5	1722
15	1570
25	1363
35	887
45	401

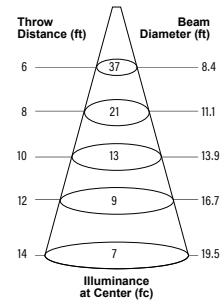
QD 70D 73° SQUARE ALUM REFLECTOR



WATTS: 23.7	LPW: 85.5
LUMENS: 2025	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1379
5	1392
15	1472
25	1383
35	822
45	287

QD 70D-WHW 70° SQUARE WHITE REFLECTOR



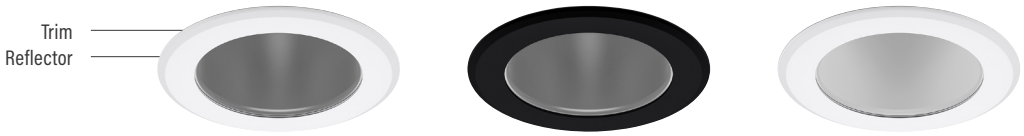
WATTS: 23.7	LPW: 81.8
LUMENS: 1940	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1348
5	1339
15	1269
25	1107
35	667
45	265

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

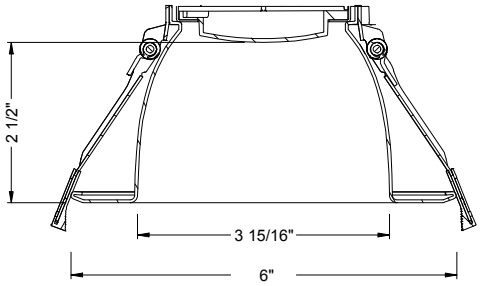
TRIM OPTIONS

TRIM/BEZEL COLORS

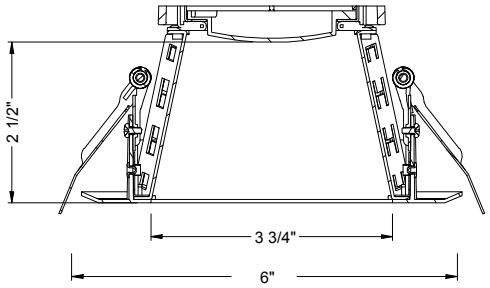


WH BK WHW

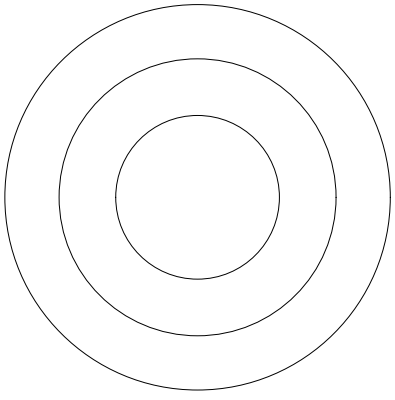
TRIMMED



aperture dimensions

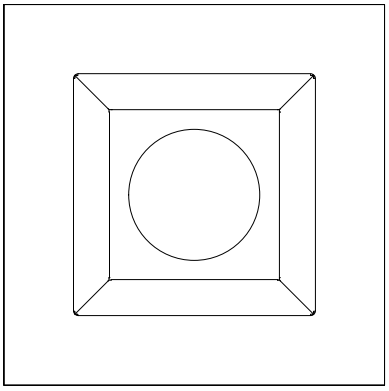


aperture dimensions



ceiling cutout
4-7/8" diameter

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



ceiling cutout
5" x 5" square

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

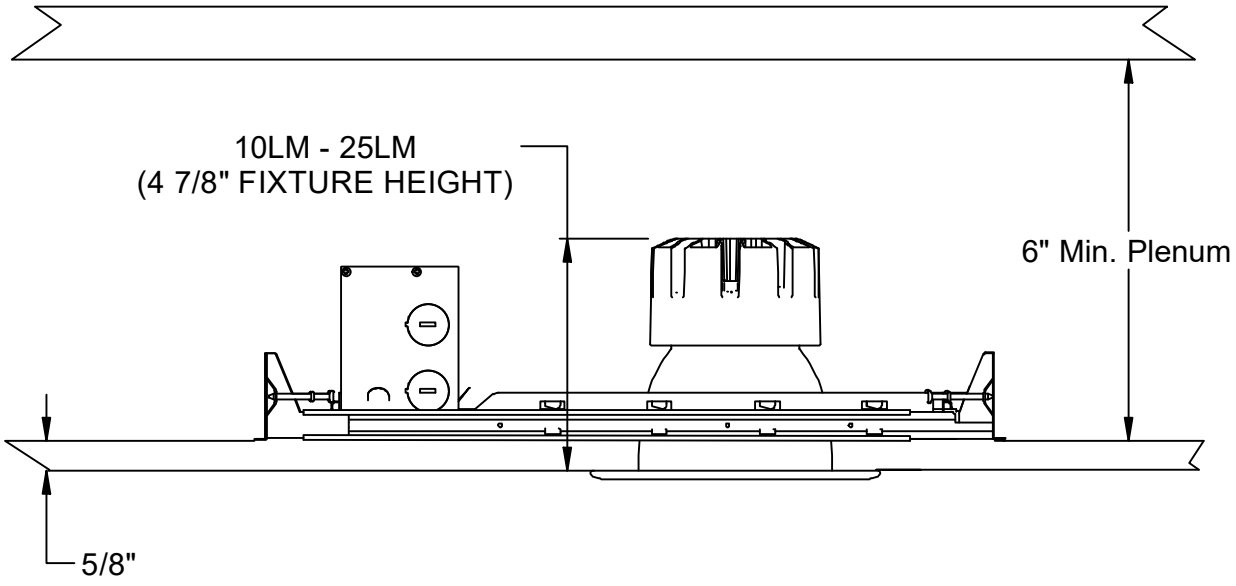
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

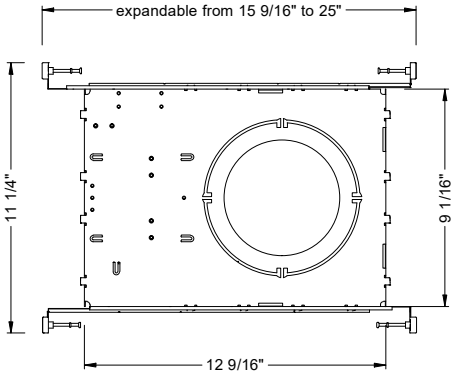
RATINGS / CERTIFICATIONS	NCIC	RETIC
TYPE NON-IC	✓	✓
TYPE IC	✓	✓
SUITABLE FOR AIR HANDLING PLENUMS	✓	✓

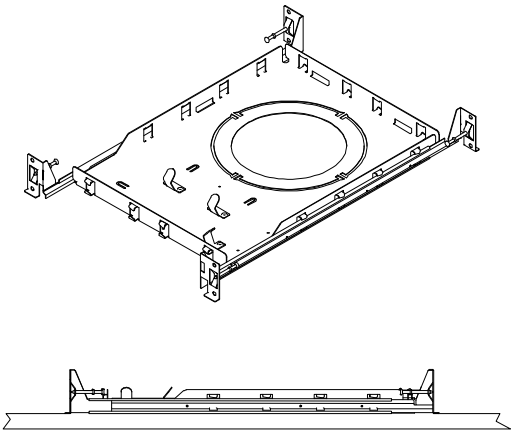
MOUNTING TYPE	STANDARD CEILING THICKNESS	STANDARD CEILING THICKNESS
TRIM	1/8" to 1-1/4"	4-7/8" round or 5" x 5" square

PLENUM HEIGHT



NEW CONSTRUCTION - NC



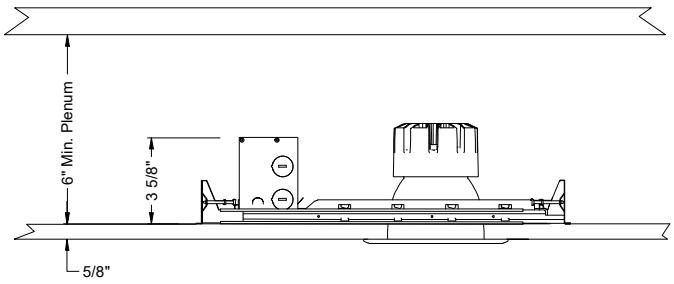


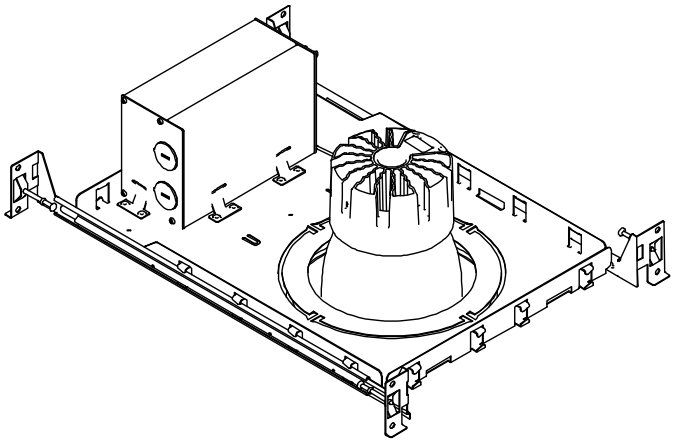
ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 15-9/16" to 25"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

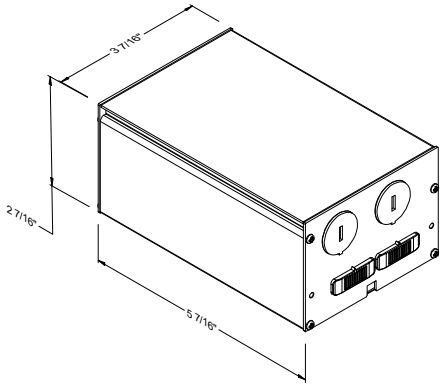
10LM-25LM (DIM10 / ELV)
(BELOW CEILING ACCESSIBLE)

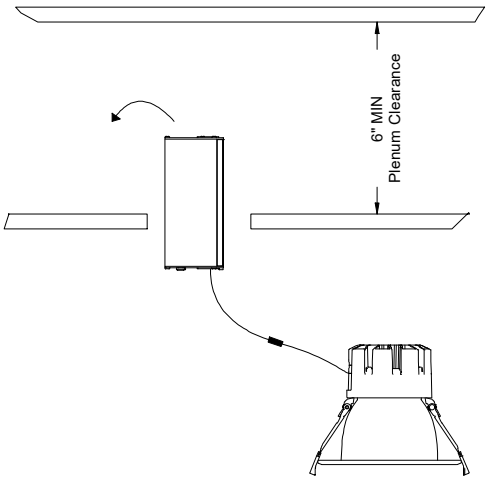




RETRO OPTIONS

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





PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

BATTERY OPTIONS

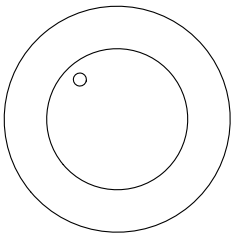
EMERGENCY BATTERY
Utilize remote batteries that are UL Listed LED emergency drivers that allow the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the remote battery switches to the emergency mode and operates the existing fixture for 90 minutes. 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

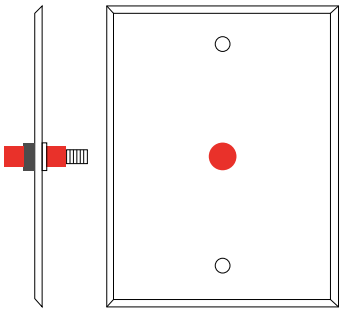
REMOTE TEST SWITCH
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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.

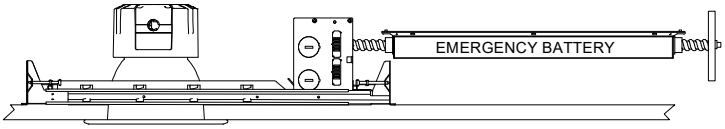


Integrated Test Switch

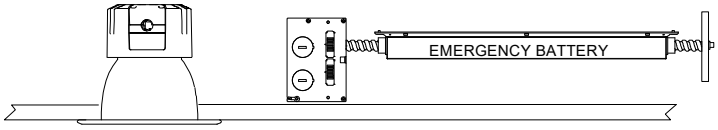


Remote Test Switch

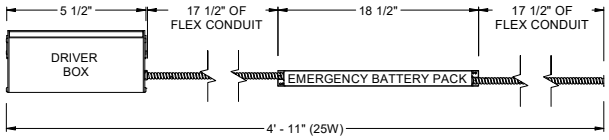
NC - NEW CONSTRUCTION
WITH EM BATTERY (REMOTE TEST SWITCH)



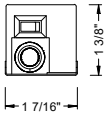
RET - RETROFIT
WITH EM BATTERY (REMOTE TEST SWITCH)



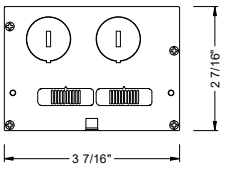
REMOTE BATTERY DIMENSIONS



EMERGENCY BATTERY PACK



DRIVER BOX



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.