

# DELUGE - EBN

## WET LOCATION BATTERY UNIT

6 V OR 12 V MODELS  
 36 W, 50 W, 72 W, 100 W OR 130 W



The EBN series of battery units is designed to operate in the most extreme environments. The unit, designed using a polycarbonate housing, maintains its sealed interior with a continuous integral gasket. The EBN series is available in 6 V DC and 12 V DC versions in 36 W, 50 W, 72 W, 100 W or 130 W wattage capacity for a minimum of 30 minutes in emergency mode. Auto test feature is standard.

### FEATURES AND SPECIFICATIONS

#### ELECTRICAL AND CIRCUITRY

- 120/277/347 V AC 60 Hz Input, field selectable
- High efficiency, rapid recovery, precision control charging system
- Magnetic test switch
- Diagnostic/pilot LED
- Fully automatic, current limited charger
- Temperature compensated charger
- Complete battery recharge in 24 hours
- Standard automatic-testing, self-diagnostic charger board

#### MECHANICAL

- Universal spider knock-out pattern stamped into backplate for junction box mounting
- Fully gasketed reinforced polycarbonate housing – will not corrode or rust from water exposure
- Stainless steel tamper proof screws and bits
- Black or white finish

#### COMPLIANCES

- Meets requirements of ICES-005
- CSA Certified to C22.2 #141-15
- CSA Certified type 2, 3, 3R, 4, 4X, 5, 12 or 12K
- CSA Certified to NSF 2
- IP66
- IK10

OVERVIEW			
INPUT VOLTAGE [V AC]	120/277/347	OUTPUT VOLTAGE [V DC]	6, 12
CW1 INPUT VOLTAGE [V AC]	120/277/347	OUTPUT POWER [W]	36 - 130
CW1 INPUT POWER [W]	30		

BRIDGE  
EMERGENCY LIGHTING  
LUMINAIRE  
REMOTE NORMALLY ON
 LED
 WET  
LOCATION
 66  
IP  
RATING
 ICES  
005
 IK10  
IMPACT  
RESISTANCE
 SAF
 SANITATION  
NSF/ANSI 2

## TYPICAL SPECIFICATION



### TYPICAL SPECIFICATION

Supply and install Aimlite EBN. The unit shall be rated 120 V, 277 V or 347 V, 60 Hz constructed of durable polycarbonate housing and be CSA listed to C22.2 141-15 Nema 2, 3, 3R, 4, 4X, 5, 12, 12K, NSF 2, IP66, IK10 and be ICES 005 compliant. The unit shall have an output of: \_\_ V and \_\_ W and come complete with (2) x \_\_ W LED heads producing ( ) lumens each. The charge voltage factory set to  $\pm 1\%$  tolerance. High efficiency, rapid recovery, precision control charging system shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, when the battery is at full capacity, the charger will shut-off. Periodically the charger shall provide a pulse of energy to keep the battery at full voltage. The pulse charger shall be precisely regulated and shall charge the battery in relation to its temperature, state or charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load when the battery reaches the end of discharge. The Aimlite battery shall come complete with an auto diagnostic micro-controller board and shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The Aimlite battery unit shall come complete with the Auto Test function. The automated testing performed by the Aimlite auto test system has been designed to comply with all of the requirements of the National Fire Code. Every month a 5 minute discharge and diagnostic test checks the operational status of the unit. Every 12 months, this test is extended to the full 30 minute, code required duration. This ensures that the battery charger is recharging the battery in accordance with code requirements. The unit shall be Aimlite model: EBN\_\_\_\_\_

## ORDERING GUIDE

EBN					/ ATD	/	
SERIES	VOLTS [V]	WATTS [W]	LAMP SELECTION	HOUSING COLOR	MANDATORY OPTIONS	OPTIONS	
EBN	06 - 6 12 - 12	036 - 36, NI-CD 050 - 50, LEAD ACID 072 - 72, LEAD ACID 100 - 100, LEAD ACID 130 - 130, LEAD ACID	SEE LAMP SELECTION CHART	BLK - BLACK WHT - WHITE	ATD - AUTO-TEST	BLANK - STANDARD +10°C TO +25°C CW1 <sup>1</sup> - COLD WEATHER AT -40°C TO +40°C	

<sup>1</sup> Only available with 6V 36W, 12V 36W and 12V 72W (Ni-Cd if ordered with CW1)

## MODEL RATINGS

MODEL	VOLTS (V)	WATTAGE CAPACITIES (W)			
		30 MIN.	60 MIN.	90 MIN.	120 MIN.
EBN06036	6	36	18	12	9
EBN06050		50	25	16.5	12.5
EBN06072		72	36	24	18
EBN06100		100	50	33	25
EBN06130		130	65	43	33
EBN12036	12	36	18	12	9
EBN12050		50	25	16.5	12.5
EBN12072		72	36	24	18
EBN12100		100	50	33	25
EBN12130		130	65	43	33

## LEXAN GUARD

MOUNTING TYPE	NUMBER OF HEADS	PART NUMBER	DIMENSIONS (IN)
WALL MOUNT	2	PGD111	19.75 X 14 X 8

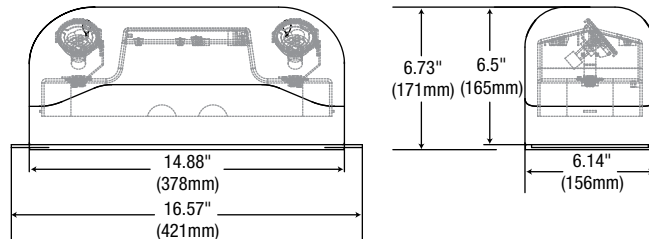
## LUMEN TABLE

WATTS	LUMENS
4W LR	388
5W LA	435
6W LA	507
7W LA	652

## LAMP SELECTION

MR16	6 V	12 V
SMALL HEAD C/W MR16 OR LED LAMP		
LED	4WLR, 5WLA	4WLR, 5WLA, 6WLA, 7WLA

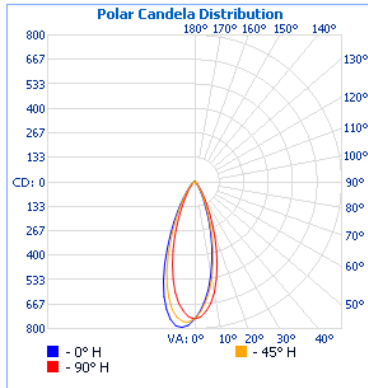
## DIMENSIONS



PHOTOMETRIC DATA<sup>1</sup>

MR16-06-24V4WLR • 228.7 LM

## POLAR CANDELA DISTRIBUTION



## ZONAL LUMEN SUMMARY

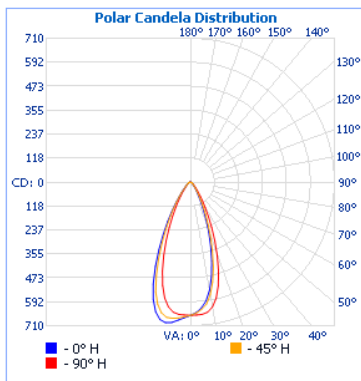
ZONE	LUMENS	% FIXTURE
0-30	164.4	71.9
0-40	182.0	79.6
0-60	214.8	93.9
60-90	13.9	6.1
70-100	4.1	1.8
90-120	0	0
0-90	228.7	100
90-180	0	0
0-180	228.7	100

## ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
1.7'	168		1.1'	
3.3'	44.5		2.1'	
5.0'	19.4		3.2'	
6.7'	10.8		4.3'	
8.3'	7.04		5.3'	
10.0'	4.85		6.4'	
<div>■ Vert. Spread: 35.4°</div>				

MR16-06-24V5WLA • 440.7 LM

## POLAR CANDELA DISTRIBUTION



## ZONAL LUMEN SUMMARY

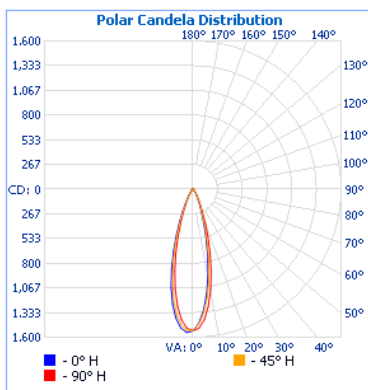
ZONE	LUMENS	% FIXTURE
0-30	352.6	80
0-40	391.8	88.9
0-60	427.2	96.9
60-90	13.5	3.1
70-100	4.3	1
90-120	0	0
0-90	440.7	100
90-180	0	0
0-180	440.7	100

## ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
1.7'	407		0.9'	1.0'
3.3'	108		1.7'	1.9'
5.0'	47.0		2.6'	2.8'
6.7'	26.2		3.5'	3.8'
8.3'	17.1		4.3'	4.7'
10.0'	11.8		5.2'	5.7'
<div>■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°</div>				

MR16-12-24V6WLA • 508.7 LM

## POLAR CANDELA DISTRIBUTION



## ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	407.0	80
0-40	452.3	88.9
0-60	493.1	96.9
60-90	15.6	3.1
70-100	4.9	1
90-120	0	0
0-90	508.7	100
90-180	0	0
0-180	508.7	100

## ILLUMINANCE AT A DISTANCE

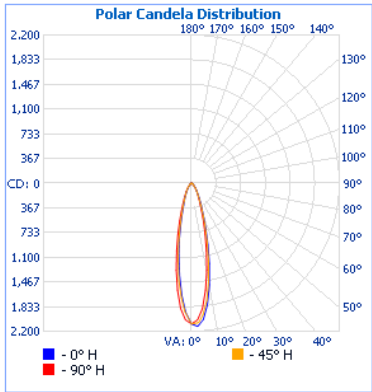
CENTER BEAM FC			BEAM WIDTH	
1.7'	470		0.9'	1.0'
3.3'	125		1.7'	1.9'
5.0'	54.3		2.6'	2.8'
6.7'	30.2		3.5'	3.8'
8.3'	19.7		4.3'	4.7'
10.0'	13.6		5.2'	5.7'
<div>■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°</div>				

<sup>1</sup> Complete IES files available on our website.

PHOTOMETRIC DATA<sup>1</sup>

MR16-12-24V7WLA • 635.2 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	508.2	80
0-40	564.7	88.9
0-60	615.7	96.9
60-90	19.5	3.1
70-100	6.1	1
90-120	0	0
0-90	635.2	100
90-180	0	0
0-180	635.2	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	587	0.9'	1.0'
3.3'	156	1.7'	1.9'
5.0'	67.8	2.6'	2.8'
6.7'	37.8	3.5'	3.8'
8.3'	24.6	4.3'	4.7'
10.0'	16.9	5.2'	5.7'
■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°			

<sup>1</sup> Complete IES files available on our website.