

EBTB STEEL CONSTRUCTION T-BAR BATTERY UNIT

The EBTB series of commercial steel T-bar ceiling battery units is designed to blend seamlessly into modern decors. The cabinet, which has been designed to fit into common 2"x4" or 2"x2" grid type suspended ceilings, mounts above the suspended ceiling, leaving only the trim plate visible. The EBTB series is available in 6 VDC, 12 VDC and 24 VDC versions in a range of wattage capacities between 36 W and 320 W, for 30 minutes duration. Units can be fitted with a wide range of lamp head types and options, including auto-testing self-diagnostics and remote testing.



FEATURES & SPECIFICATIONS

CIRCUITRY

- 120/347 VAC 60 Hz Input, field selectable
- High efficiency, rapid recovery, precision control charging system
- 6 VDC, 12 VDC or 24 VDC emergency power output versions (as specified)
- Wattage capacities from 36 W to 320 W
- 30 minutes emergency power duration standard
- Momentary push button test switch
- Diagnostic/pilot LEDs for AC ON and CHARGE
- Fully automatic, current limited charger
- Brownout and short circuit protection
- Temperature compensated
- Large magnum terminal screw type connectors for remote load connection
- Complete battery recharge in 24 hours
- Maintenance free, sealed lead acid battery
- Optional automatic-testing, self-diagnostic charger board:
 - Continuously monitors the operational status of the battery unit

- Automatically performs battery and lamp load testing at preset intervals
- Indicates any component malfunctions or automated test failures

MECHANICAL

- 20 Gauge steel construction
- One piece frame and trim with slide out recessed housing cover
- All components recess above ceiling - only trim plate is visible
- Self-centering T-bar mounting arms

- Integral eyelet holes for attachment of cable/chain supports
- Multiple conduit entry knockouts
- White powder coat finish standard, other finishes and colors optional
- Lamp heads include PAR18 small style and die cast metal MR16 type

COMPLIANCES

- CSA Certified to C22.2 #141-15
- Meets requirements of ICES-005

OVERVIEW

INPUT VOLTAGE (VAC)	120/347	OUTPUT POWER (W)	36 - 320
OUTPUT VOLTAGE (VDC)	6, 12, 24		
  			

For complete warranty details, please see our terms and conditions on our website.

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

TYPICAL SPECIFICATION



TYPICAL SPECIFICATION

Supply and install Aimlite EBTB recessed battery unit. The unit shall be rated 120 V, 277 V or 347 V, 60 Hz constructed of durable 18 gauge steel and be CSA listed to C22.2 141-15 and be ICES 005 compliant. The unit shall have an output of: ___V and ___W and come complete with (0), (1) or (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: EBTB_____

ORDERING GUIDE

SERIES	VOLTS [V]	WATTS	HEAD/LAMP	LAMP TYPE	COLOR	OPTIONS
EBTB	06 - 6 12 - 12 24 - 24	SEE MODEL RATING BELOW	0 - NO HEADS 1SM - ONE PAR18 2SM - TWO PAR18 1MD - ONE MR16 2MD - TWO MR16 1MB - ONE MR16 2MB - TWO MR16	SEE LAMP LIST BELOW	WHT - WHITE [STANDARD] BLK - BLACK	ATD, AUD, AUE ¹ , FS6, RMT, LPD, RDS, TDL

¹Only available with ATD.

Note: ATD option available on 6V 36W, 50W models and 12V 36W, 50W, 72W, 100W.

Please consult with your factory representative regarding specific voltage and wattage options.

LAMP SELECTION

	6 VOLTS	12 VOLTS	24 VOLTS
PAR18 • SMALL HEAD OR LED LAMP			
LED	3WLJ, 4WLJ, 5WLJ	3WLJ, 4WLJ, 5WLJ, 6WLA, 7WLA	4WLR, 5WLA, 6WLA, 7WLA
QUARTZ HALOGEN		10WQ	
TUNGSTEN	09WT	09WT, 12WT	09WT, 18WT
MR16 • SMALL HEAD C/W MR16 OR LED LAMP			
LED	4WLR, 5WLA	4WLR, 5WLA, 6WLA, 7WLA	4WLR, 5WLA, 6WLA, 7WLA
QUARTZ HALOGEN	10WQ	20WQ, 35WQ	12WQ, 20WQ

Note: Due to cabinet/space limitations, not all options are available for all models in any given combination. Please consult with your factory representative regarding specific options and exact cabinet dimension information.

MODEL RATINGS

MODEL	VOLTS [V]	WATTAGE CAPACITIES [W]			
		30 MIN.	60 MIN.	90 MIN.	120 MIN.
EBTB06036	6	36	18	12	9
EBTB06050		50	25	16	12
EBTB06072		72	36	24	18
EBTB06100		100	50	33	25
EBTB06160		160	80	53	40
EBTB06180		180	90	60	45
EBTB12036	12	36	18	12	9
EBTB12050		50	25	16	12
EBTB12072		72	36	24	18
EBTB12100		100	50	33	25
EBTB12160		160	80	53	40
EBTB12200		200	100	66	50
EBTB12250	250	125	83	62	
EBTB24144	24	144	72	48	36
EBTB24200		200	100	66	50
EBTB24320		320	160	106	80

Note: AT option available on 6V 36W, 50W models and 12V 36W, 50W, 72W, 100W. Please consult with your factory representative regarding specific voltage and wattage options.

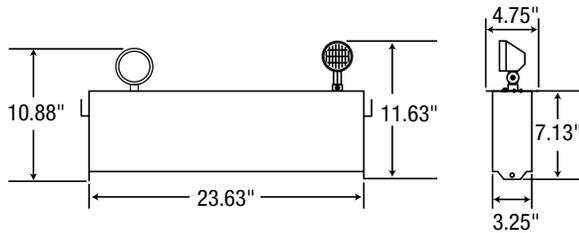
LUMEN TABLE

WATTS	LUMENS
3W LJ	313
4W LJ	388
5W LJ	590
4W LR	388
5W LA	435
6W LA	507
7W LA	652

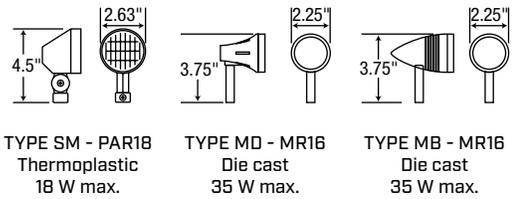
EMERGENCY LIGHTING OPTIONS

DESCRIPTION	DESCRIPTION
ATD AUTOMATIC TEST SELF-DIAGNOSTIC	RMT INFRARED REMOTE TEST
AUD AUDIBLE ALARM	LPD LAMP DISCONNECT [INTERNAL]
AUE AUDIBLE EMERGENCY	RDS RADIO FREQUENCY SUPPRESSION
FS6 6 CIRCUIT FUSED INTERNAL DISTRIBUTION	TDL TIME DELAY

DIMENSIONS



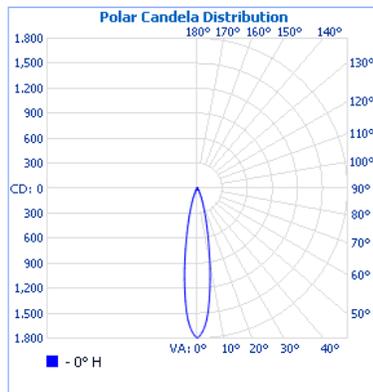
HEADS



PHOTOMETRIC DATA

PAR18-06-12V3WLJ • 309.0 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	282.9	91.6
0-40	297.5	96.3
0-60	306.9	99.3
60-90	2.1	0.7
70-100	0.3	0.1
90-120	0	0
0-90	309.0	100
90-180	0	0
0-180	309.0	100

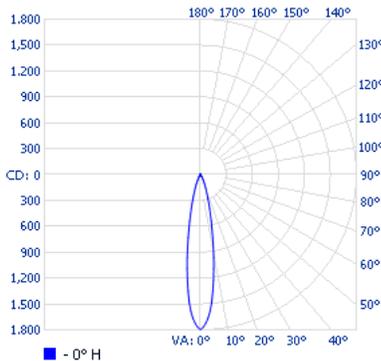
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC	BEAM WIDTH
1.7	0.6
3.3	1.1
5.0	1.7
6.7	2.3
8.3	2.8
10.0	3.4

■ Beam Spread: 19.3°

PAR18-06-12V4WLJ • 429.5 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	325.3	75.7%
0-40	369.4	86%
0-60	410.4	95.5%
60-90	19.2	4.5%
0-90	429.5	100%

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC	BEAM WIDTH
1.7'	0.8' 8.2'
3.3'	1.6' 16.4'
5.0	2.4' 24.6'
6.7	3.2' 32.8'
8.3	3.9' 41.0'
10.0	4.7' 49.2'

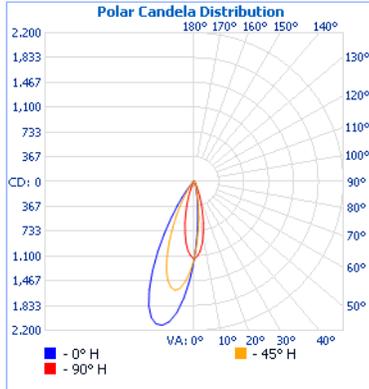
■ Vert. Spread: 26.6° ■ Hor. Spread: 27.1°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA

PAR18-06-12V5WLJ • 655.3 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	515.6	78.7
0-40	595.7	90.9
0-60	637.2	97.2
60-90	18.0	2.8
0-90	655.3	100

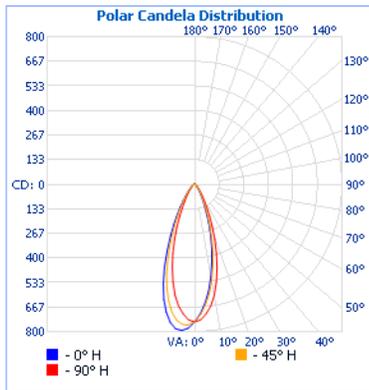
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7	396	0.9	0.9
3.3	105	1.7	1.7
5.0	45.8	2.5	2.6
6.7	25.5	3.4	3.5
8.3	16.6	4.2	4.3
10.0	11.5	5.1	5.2

■ Vert. Spread: 28.6° ■ Hor. Spread: 29.4°

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

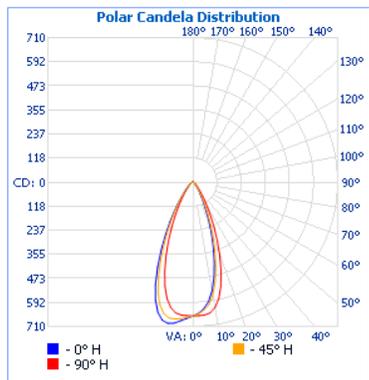
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7	168	1.1	1.1
3.3	44.5	2.1	2.1
5.0	19.4	3.2	3.2
6.7	10.8	4.3	4.3
8.3	7.04	5.3	5.3
10.0	4.85	6.4	6.4

■ Beam Spread: 35.4°

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

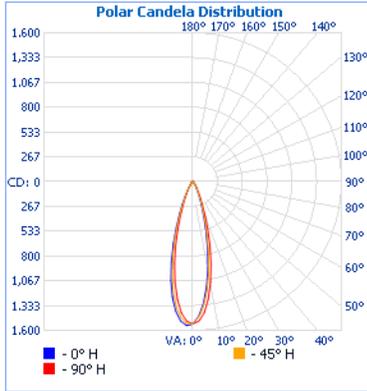
■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA

MR16-12-24V6WLA • 508.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	470.0	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

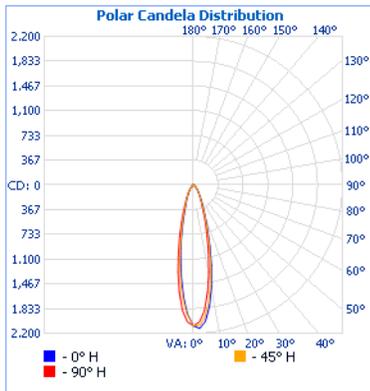
ILLUMINANCE AT A DISTANCE

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

■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°

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°

¹ Complete IES files available on our website.