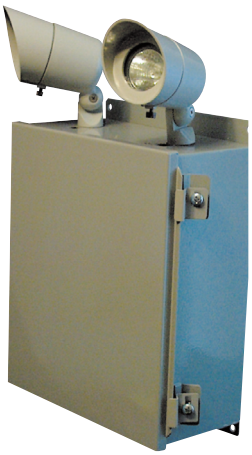
Project _____ Type _____

Catalogue n° _____ Date _____

AimLite

EBDT

DUST-TIGHT STEEL BATTERY UNIT



FEATURES & SPECIFICATIONS

CIRCUITRY

- 120/347VAC or 277VAC 60Hz Input
- High efficiency, rapid recovery, precision control charging system
- 30 minutes emergency power duration standard
- Dust-tight, momentary push button test switch
- Diagnostic/pilot LEDs for AC ON and CHARGE
- 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

MECHANICAL

- 20 Gauge steel construction
- NEMA12 / EEMAC12 rated design
- Four integral mounting holes (one per corner)
- 120VAC line cord with dust-tight strain relief supplied standard
- Industrial grey powder coat finish standard, other finishes optional
- Lamp heads include weatherproof die cast metal MR16 and high output industrial
- Top head mounting is standard, side mount is optional

COMPLIANCE

- Meets requirements of ICES-005

APPROVALS

- CSA Certified to C22.2 #141-15

OVERVIEW			
LIGHT SOURCE	LED QUARTZ HALOGEN	**OUTPUT VOLTAGE (VDC)**	6, 12 OR 24
INPUT VOLTAGE (VAC)	120/347 OR 277	**OUTPUT POWER (W)**	36 - 360

ICES 005

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.

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TYPICAL SPECIFICATION

TYPICAL SPECIFICATION

Supply and install Aimlite EBDT. The unit shall be rated 120 V, 277 V or 347 V, 60 Hz constructed of durable fully gasketed, all steel dust tight housing and be NEMA12 and EEMAC12, 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 (2) x __ W LED heads producing (__) lumens each. The charge voltage factory set to ± 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: EBDT_____

EBDT

ORDERING GUIDE

EBDT				—					/	

SERIES	VOLTS (VDC)	WATTS (W)	HEAD/LAMP	LAMP TYPE	COLOR	INPUT VOLTAGE	OPTIONS
EBDT	06 - 6VDC 12 - 12VDC 24 - 24VDC	SEE MODEL RATING BELOW	0 - NO HEADS 1MW - ONE MR16 WEATHER-PROOF 2MW - TWO MR16 WEATHER-PROOF 1HO - ONE INDUSTRIAL 2HO - TWO INDUSTRIAL	SEE LAMP SELECTION	GRY - GREY (STANDARD)	BLANK - 120/347V 277 - 277V	AMP, ACT, ATD, AUD[1], AUE, DCT, FS6, RMT, LPD, NLC, RDS, TDL, TLP

[1] Only available with ATD.

LAMP SELECTION

	6 V	12 V	24 V
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, 50WQ
INDUSTRIAL			
LED		5WLJ, 9WLJ, 14WLJ, 30WLJ	5WLJ, 9WLJ, 14WLJ, 30WLJ

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.

EMERGENCY LIGHTING OPTIONS

	DESCRIPTION		DESCRIPTION
AMP	AMMETER	**RMT**	INFRARED REMOTE TEST
ACT	AC TERMINAL BLOCK	**LPD**	LAMP DISCONNECT (INTERNAL)
ATD	AUTOMATIC TEST SELF-DIAGNOSTIC	**NLC**	OCTAGON BOX MOUNT (LINE CORD DELETE)
AUD	AUDIBLE ALARM	**RDS**	RADIO FREQUENCY SUPPRESSION
AUE	AUDIBLE EMERGENCY	**TDL**	TIME DELAY
DCT	DC TERMINAL BLOCK	**TLP**	TWIST LOCK PLUG
FS6	6 CIRCUIT FUSED INTERNAL DISTRIBUTION		

EBDT

MODEL RATINGS

WATTAGE CAPACITIES						
MODEL	**VOLTAGE**	**30 MIN.**	**60 MIN.**	**90 MIN.**	**120 MIN.**	**SIZE**
EBDT06036	6	36	18	12	9	1[1]
EBDT06050		50	25	16	12	1[1]
EBDT06072		72	36	24	18	1[1]
EBDT06100		100	50	33	25	1[1]
EBDT06160		160	80	53	40	2
EBDT06180		180	90	60	45	2
EBDT12036	12	36	18	12	9	1[1]
EBDT12050		50	25	16	12	1[1]
EBDT12072		72	36	24	18	1[1]
EBDT12100		100	50	33	25	1[1]
EBDT12160		160	80	53	40	2
EBDT12200		200	100	66	50	2
EBDT12250	24	250	125	83	62	2
EBDT12360		360	180	120	90	2
EBDT24144		144	72	48	36	2
EBDT24200		200	100	66	50	2
EBDT24320		320	160	106	80	2

[1]Some options might require a cabinet 2.

LUMEN TABLE

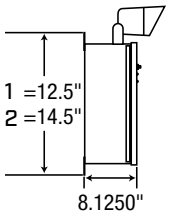
WATTS	LUMENS
4W LR	388
5WLJ	590
5W LA	435
6W LA	507
7W LA	652

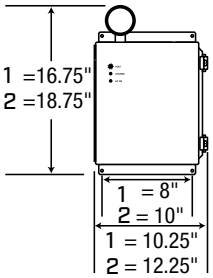
WIRE GUARD

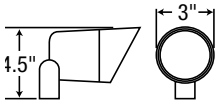
	PART NUMBER	DIMENSION (IN)
CABINET 1[1]	WDG600-V2	23 X 20 X 12
CABINET 2[1]	WDG600-V2	23 X 20 X 12

[1] For HO heads, please contact your customer service representative for more information.

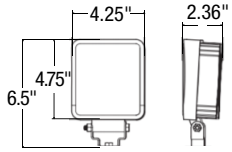
DIMENSIONS







TYPE MW – MR16
Die cast
50 W max.

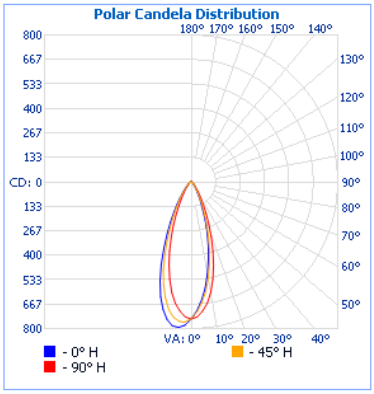


TYPE I – INDUSTRIAL
Die cast
14 W max.

PHOTOMETRIC DATA[1]

MR16-6-24V4WLR • 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

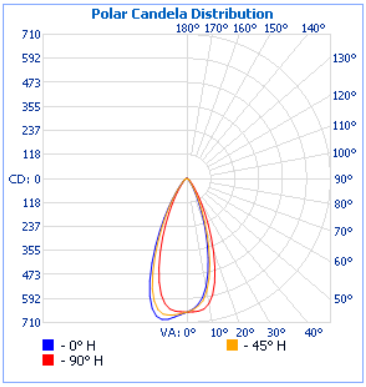
ILLUMINANCE AT A DISTANCE

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

Beam Spread: 35.4°

MR16-12-24V5WLA • 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

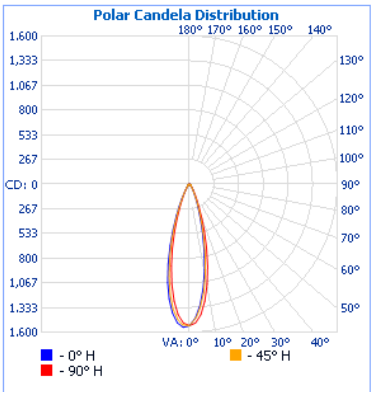
ILLUMINANCE AT A DISTANCE

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°

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

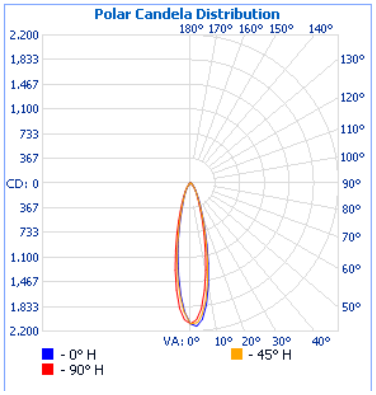
Vert. Spread: 29.3° Hor. Spread: 31.7°

[1] Complete IES files available on our website.

PHOTOMETRIC DATA[1]

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

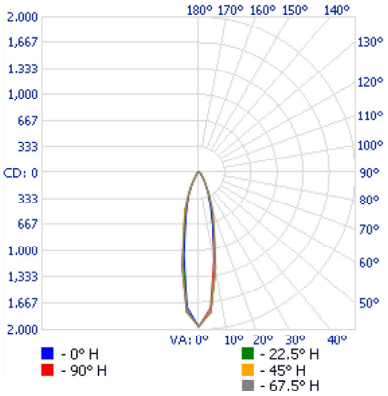
ILLUMINANCE AT A DISTANCE

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°

SQ-12V-5W • 642.1 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	481.0	74.9
0-40	548.2	85.4
0-60	611.0	95.1
60-90	31.1	4.8
70-100	12.2	1.9
90-120	0.0	0
0-90	642.1	100
90-180	0.1	0
0-180	642.1	100

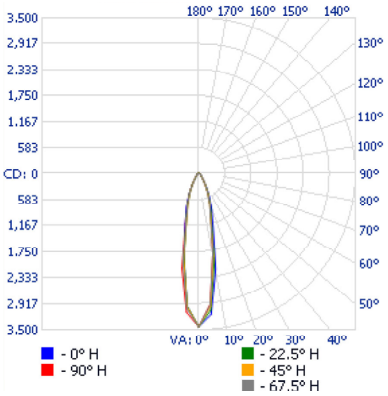
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
2.0"	489.9	0.8	0.8
4.0"	122.5	1.7	1.7
6.0"	54.4	2.5	2.5
8.0"	30.6	3.3	3.4
10.0"	19.6	4.1	4.2

Vert. Spread: 23.4° Hor. Spread: 23.8.°

SQ-12V-9W • 1 105.1 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	835.2	75.6
0-40	948.6	85.8
0-60	1 051.8	95.2
60-90	53.1	4.8
70-100	20.9	1.9
90-120	0.1	0
0-90	1 104.9	100
90-180	0.2	0
0-180	1 105.1	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
2.0"	856.3	0.8	0.8
4.0"	214.1	1.7	1.6
6.0"	95.1	2.5	2.4
8.0"	53.5	3.4	3.2
10.0"	34.3	4.2	4.1

Vert. Spread: 23.8° Hor. Spread: 22.9.°

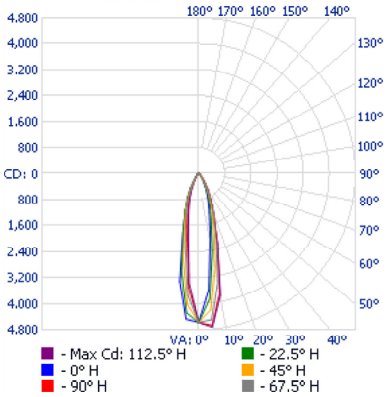
[1] Complete IES files available on our website.

EBDT

PHOTOMETRIC DATA[1]

SQ-12V-14W • 1 460.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 142.6	78.2
0-40	1 289.7	88.3
0-60	1 407.8	96.4
60-90	52.7	3.6
70-100	18.7	1.3
90-120	0.0	0
0-90	1 460.6	100
90-180	0.1	0
0-180	1 460.7	100

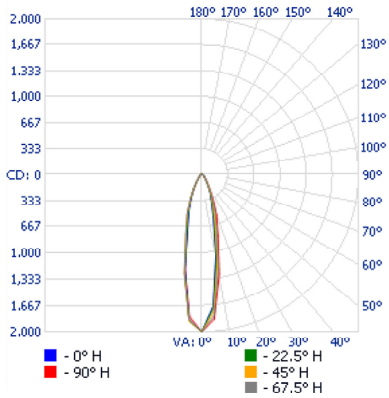
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
2.0"	1 143.8		0.8	0.8
4.0"	285.9		1.6	1.7
6.0"	127.1		2.4	2.5
8.0"	71.5		3.2	3.3
10.0"	45.8		4.0	4.2

Vert. Spread: 22.8° Hor. Spread: 23.5°

SQ-24V-5W • 659.0 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	493.6	74.9
0-40	562.7	85.4
0-60	627.1	95.2
60-90	31.8	4.8
70-100	12.4	1.9
90-120	0.0	0
0-90	658.9	100
90-180	0.1	0
0-180	659.0	100

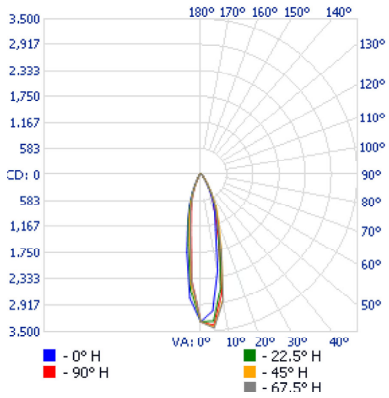
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
2.0"	499.7		0.8	0.9
4.0"	124.9		1.6	1.8
6.0"	55.5		2.4	2.7
8.0"	31.2		3.2	3.6
10.0"	20.0		4.0	4.5

Vert. Spread: 22.6° Hor. Spread: 25.3°

SQ-24V-9W • 1 114.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	835.1	74.9
0-40	954.7	85.7
0-60	1 060.8	95.2
60-90	53.8	4.8
70-100	21.1	1.9
90-120	0.1	0
0-90	1 114.6	100
90-180	0.1	0
0-180	1 114.7	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
2.0"	820.9		0.9	0.8
4.0"	205.2		1.7	1.6
6.0"	91.2		2.6	2.4
8.0"	51.3		3.5	3.2
10.0"	32.8		4.4	4.0

Vert. Spread: 24.5° Hor. Spread: 22.6°

[1] Complete IES files available on our website.

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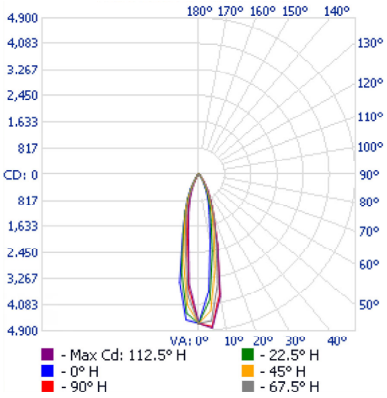
PHOTOMETRIC DATA[1]

SQ-24V-14W • 1 487.4 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 164.1	78.3
0-40	1 313.4	88.3
0-60	1 433.6	96.4
60-90	53.7	3.6
70-100	19.1	1.3
90-120	0.0	0
0-90	1 487.3	100
90-180	0.1	0
0-180	1 487.4	100

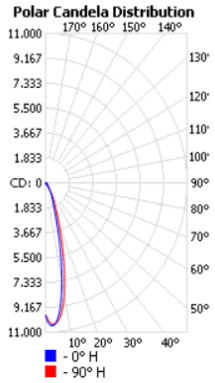
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
2.0"	1 166.4		0.8	0.8
4.0"	291.6		1.6	1.7
6.0"	129.6		2.4	2.5
8.0"	72.9		3.2	3.3
10.0"	46.7		4.0	4.2

Vert. Spread: 22.8° Hor. Spread: 23.5°

SQ-12-24V-30W • 2 578 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	2 112.3	82
0-40	2 315.1	90
0-60	2 491.9	97
60-90	83.7	3
0-90	2 575.7	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
17.0"	33.7		6.1	6.3
34.0"	8.42		12.1	12.5
51.0"	3.47		18.2	18.8
68.0"	2.10		24.3	25.1
85.0"	1.35		30.4	31.3
102.0"	0.94		36.4	37.6

Vert. Spread: 20.3° Hor. Spread: 20.9°

[1] Complete IES files available on our website.

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