

EBWP WEATHER-PROOF BATTERY UNIT



FEATURES AND SPECIFICATIONS

CIRCUITRY

- 120/347 V AC or 277 V AC, 60 Hz Input
- High efficiency, rapid recovery, precision control charging system
- Liquid-tight, momentary push button test switch
- Diagnostic/pilot LEDs for AC ON and CHARGE
- Fully automatic, current limited charger
- Temperature compensated
- Large magnum terminal screw type connectors for remote load connection
- Complete battery recharge in 24 hours
- Maintenance free, sealed lead acid battery which will provide the specified wattage for 30 minutes duration
- Optional automatic-testing, self-diagnostic charger board

MECHANICAL

- Fully gasketed, reinforced, non-metallic housing - will not corrode or rust from water exposure
- NEMA4X / EMMAC4X rated design
- 120 V AC line cord with liquid-tight strain relief supplied standard
- Grey finish standard
- Lamp heads include weatherproof die cast metal MR16 and high output industrial heads. Top head mounting is standard
- Normal operating temperature +10°C to +25°C and -20°C to +25°C with the HTR option

COMPLIANCES

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

OVERVIEW			
LIGHT SOURCE	LED	OUTPUT VOLTAGE (V DC)	6, 12, 24
INPUT VOLTAGE (V AC)	120/347, 277	OUTPUT POWER (W)	36 - 720
  BRIDGE EMERGENCY LIGHTING LUMINAIRE REMOTE NORMALLY ON  ICES 005 			

Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/search.

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

TYPICAL SPECIFICATION



TYPICAL SPECIFICATION

Supply and install Aimlite EBWP. 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 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: EBWP_____

ORDERING GUIDE

EBWP					GRY		
SERIES	VOLTS [V]	WATTS	HEAD/LAMP	LAMPE	COLOR	INPUT VOLTS [V AC]	OPTIONS
EBWP	06 - 6 12 - 12 24 - 24	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 LIST BELOW	GRY - GREY	BLANK - 120/347 277 - 277	AMP, ACT, ATD, AUD ¹ , AUE, OCT, FS6, HTR ² , RMT, LPD, NLC, RDS, TDL, TLP, VLT

¹ Only available with ATD.

² Specify AC voltage.

LAMP SELECTION

MR16 SMALL HEAD C/W MR16 OR LED LAMP	6 V	12 V	24 V
LED	4WLR, 5WLA	4WLR, 5WLA, 6WLA, 7WLA	4WLR, 5WLA, 6WLA 7WLA
INDUSTRIAL HIGH OUTPUT	6 V	12 V	24 V
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.

LUMEN TABLE

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

LUMEN TABLE INDUSTRIAL

WATTS	LUMENS
5W LJ	630
9W LJ	1 100
14W LJ	1 460
30W LJ	2 578

LEXAN GUARD

MOUNTING TYPE	NUMBER OF HEADS	PART NUMBER	DIMENSIONS (IN)
WALL MOUNT	1,2	PGD111	19.75x14x8

MODEL RATINGS

MODEL	VOLTS [V]	WATTAGE CAPACITIES (W)				DIMENSION ¹
		30 MIN.	60 MIN.	90 MIN.	120 MIN.	
EBWP06036	6	36	18	12	9	1
EBWP06050		50	25	16	12	1
EBWP06072		72	36	24	18	1
EBWP06100		100	50	33	25	1
EBWP06160		160	80	53	40	2
EBWP06180		180	90	60	45	2
EBWP12036	12	36	18	12	9	1
EBWP12050		50	25	16	12	1
EBWP12072		72	36	24	18	1
EBWP12100		100	50	33	25	1
EBWP12160		160	80	53	40	2
EBWP12200		200	100	66	50	2
EBWP12250	24	250	125	83	62	3
EBWP12360		360	180	120	90	3
EBWP24144		144	72	48	36	2
EBWP24200		200	100	66	50	2
EBWP24320		320	160	106	80	2
EBWP24350		350	175	117	88	3
EBWP24550	24	550	275	184	138	4
EBWP24720		720	360	240	180	4

¹ The size of the cabinet might change depending of the chosen options.

Please consult with your factory representative regarding exact cabinet dimension information.

MOUNTING TYPE	NUMBER OF HEADS	INPUT VOLTAGE	PART NUMBER	DIMENSIONS (IN)
WALL MOUNT	0	06V036W	PGD107	14.5x11.25x5.5
		06V050W	PGD107	14.5x11.25x5.5
		06V072W	PGD107	14.5x11.25x5.5
		06V100W	PGD107	14.5x11.25x5.5
		12V036W	PGD107	14.5x11.25x5.5
		12V050W	PGD107	14.5x11.25x5.5
		12V072W	PGD107	14.5x11.25x5.5
		12V100W	PGD107	14.5x11.25x5.5
		06V160W	PGD111	19.75x14x8
		06V180W	PGD111	19.75x14x8
		12V160W	PGD111	19.75x14x8
		12V200W	PGD111	19.75x14x8
		12V250W	PGD111	19.75x14x8
		12V360	PGD111	19.75x14x8
		24V144W	PGD111	19.75x14x8
		24V200W	PGD111	19.75x14x8
		24V320W	PGD111	19.75x14x8
		24V350W	PGD111	19.75x14x8

WIREGUARD¹

		PART NUMBER	DIMENSIONS (IN)
WITHOUT HEAD	CABINET 1	WGD590-V2	14.5 X 11.25 X 5.5
	CABINET 2	WGD600	20.25 X 17.25 X 8.5
WITH HEAD(S) ²	CABINET 1	WGD510-V2	19.75 X 19.75 X 7.25
	CABINET 2	WGD600	20.25 X 17.25 X 8.5

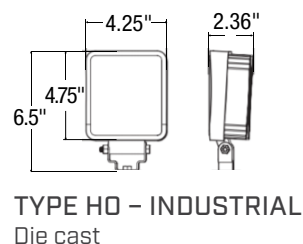
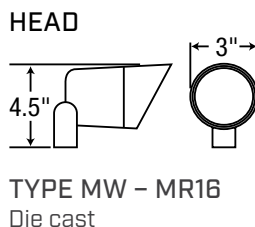
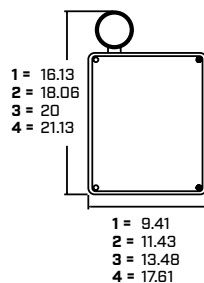
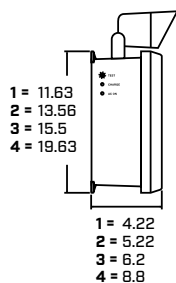
¹ Please contact your customer service representative for more information.

² For HD heads, please contact your customer service representative for more information.

EMERGENCY LIGHTING OPTIONS

DESCRIPTION		DESCRIPTION	
AMP	AMMETER	RMT	INFRARED REMOTE TEST
ACT	AC TERMINAL BLOCK (LINE CORD DELETE)	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
FSB	6 CIRCUIT FUSED INTERNAL DISTRIBUTION	VLT	VOLTMETER
HTR	INTERNAL THERMOSTATICALLY CONTROLLED BATTERY HEATER		

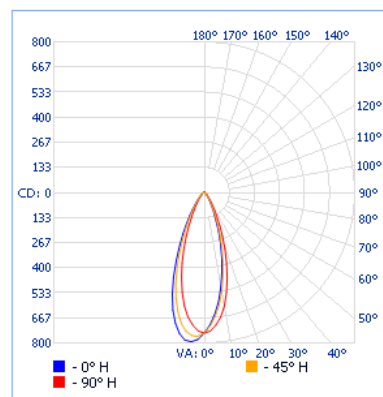
DIMENSIONS



PHOTOMETRIC DATA

MR16-06-24V4WLR • 288.7 LM

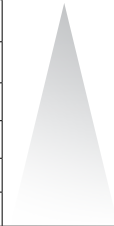
POLAR CANDELA DISTRIBUTION



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

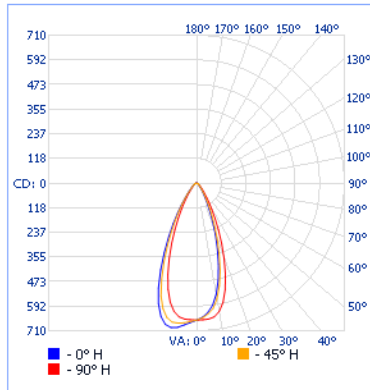
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH (FT)
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°			

PHOTOMETRIC DATA¹

MR16-12-24V5WLA • 440.7 LM

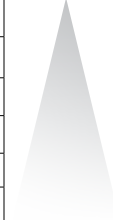
POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

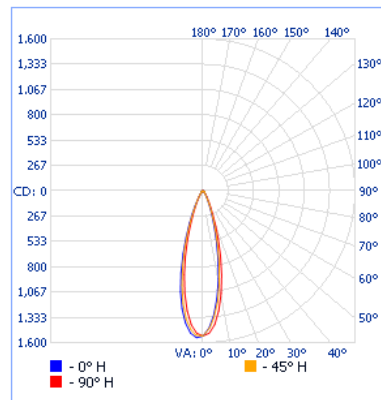
ZONE	LUMENS	% FIXTURE
0-30	352.6	80
0-40	391.8	88.9
0-60	427.2	96.9
60-90	13.5	3.1
70-100	4.3	1
90-120	0	0
0-90	440.7	100
90-180	0	0
0-180	440.7	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH (FT)	
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

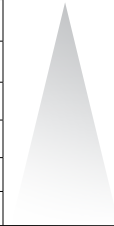
POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

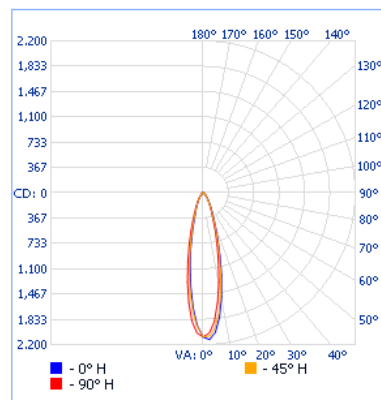
ZONE	LUMENS	% FIXTURE
0-30	407.0	80
0-40	452.3	88.9
0-60	493.1	96.9
60-90	15.6	3.1
70-100	4.9	1
90-120	0	0
0-90	508.7	100
90-180	0	0
0-180	508.7	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH (FT)	
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

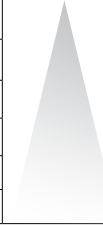
POLAR CANDELA DISTRIBUTION



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

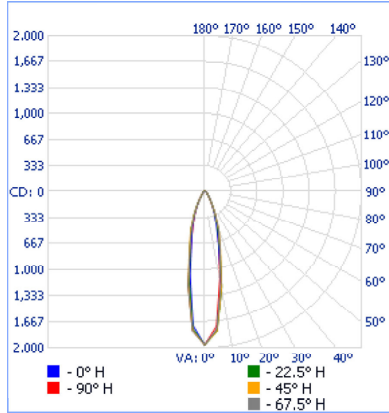
CENTER BEAM FC			BEAM WIDTH (FT)	
1.7'	587		0.9	1.0
3.3'	156		1.7	1.9
5.0	67.8		2.6	2.8
6.7	37.8		3.5	3.8
8.3	24.6		4.3	4.7
10.0	16.9		5.2	5.7
■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°				

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

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

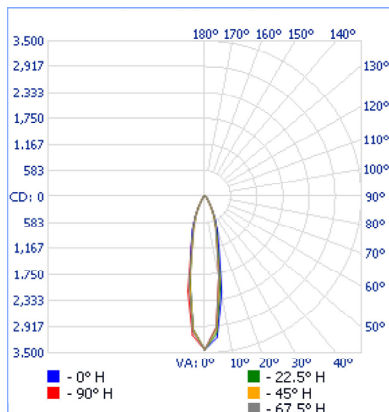
ILLUMINANCE AT A DISTANCE

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

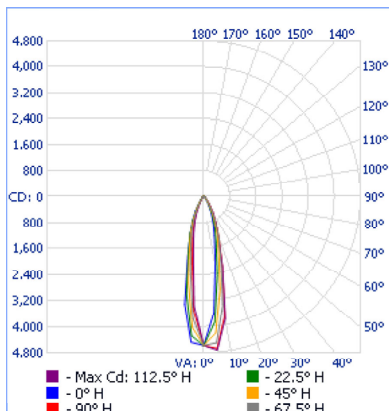
ILLUMINANCE AT A DISTANCE

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°

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

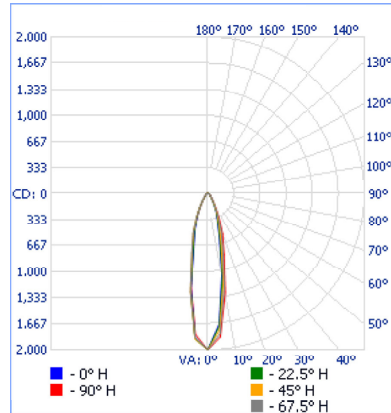
■ Vert. Spread: 22.8° ■ Hor. Spread: 23.5°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

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

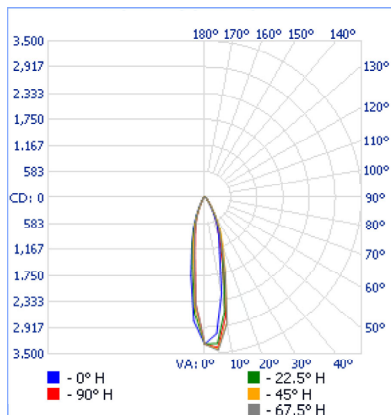
ILLUMINANCE AT A DISTANCE

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

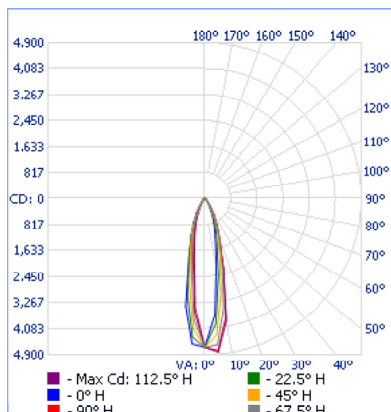
ILLUMINANCE AT A DISTANCE

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°

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

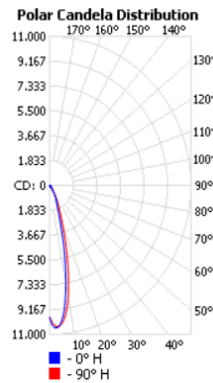
■ Vert. Spread: 22.8° ■ Hor. Spread: 23.5°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

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.