

EBST

STEEL BATTERY UNIT



The EBST series of commercial steel battery units is designed to provide efficient and reliable emergency lighting. Utilizing a sturdy, all steel housing, the EBST presents a modern and unobtrusive design. On higher capacity models, the cabinet front is sloped to allow better internal access and superior low angle light distribution. The EBST series is available in 6 V DC, 12 V DC and 24 V DC versions in a range of wattage capacities between 18 and 720W, for 30 minutes duration.

Units are typically supplied with two top mounted PAR18, however a wide range of head type, number and placement are available including MR16 type. The EBST can also accommodate a wide variety of options, including auto-testing self-diagnostics and remote testing.

FEATURES & SPECIFICATIONS

CIRCUITRY




- 120/347 or 277 V AC 60 Hz Input
- 6 V DC, 12 V DC or 24 V DC emergency power output versions (as specified)
- Wattage capacities from 18 to 720 W
- 30 Minutes emergency power duration standard
- Momentary push button test switch
- Diagnostic/pilot LEDs for AC ON and CHARGE
- Maintenance free, sealed lead acid battery
- Optional automatic-testing, self-diagnostic charger board

MECHANICAL

- Rugged steel cabinet with ultraguard rust-coating
- 120 V AC line cord supplied standard
- Universal spider knockout pattern and keyhole mounting slots stamped into back of cabinet
- Multiple conduit entry knockouts
- White powder coat finish standard, other finishes and colors optional
- Lamp heads include PAR18/MR16 small style, die cast metal MR16 type, and high output industrial type
- Top head mounting is standard, side mount is optional

COMPLIANCES

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

OVERVIEW	
INPUT VOLTAGE [V AC]	120/347, 277
OUTPUT VOLTAGE [V DC]	6, 12, 24
OUTPUT POWER [W]	UP TO 720
  	

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.

QUICK SHIP ORDERING GUIDE



PART NUMBER	DC VOLTS (V DC)	WATTS (W)	NBR OF HEADS	HEAD	LAMP (W)	LIGHT SOURCE	INPUT VOLTS (V AC)	COLOR
EBST-1L	6	27	2	SM	2	LED	120/347	WHITE
EBST-2L	6	36	2	SM	2	LED	120/347	WHITE
EBST-3L	6	36	2	SM	3	LED	120/347	WHITE
EBST12-2L	12	72	2	SM	2.5	LED	120/347	WHITE
EBST06036-2SM09T	6	36	2	SM	9	TUNGSTEN	120/347	WHITE
EBST06072-2SM09T	6	72	2	SM	9	TUNGSTEN	120/347	WHITE
EBST12036-2SM09T	12	72	2	SM	9	TUNGSTEN	120/347	WHITE
EBST12072-2SM09T	12	72	2	SM	9	TUNGSTEN	120/347	WHITE
EBST12100-2SM09T	12	100	2	SM	9	TUNGSTEN	120/347	WHITE
EBST12160-2SM09T	12	160	2	SM	9	TUNGSTEN	120/347	WHITE
EBST12200-2SM09T	12	200	2	SM	9	TUNGSTEN	120/347	WHITE
EBST12250-2SM09T	12	250	2	SM	9	TUNGSTEN	120/347	WHITE
EBST12360-2SM09T	12	360	2	SM	9	TUNGSTEN	120/347	WHITE

QUICK SHIP: Product availability is subject to change without notice. Please contact your AimLite customer service representative to confirm inventory levels at time of order.

ORDERING GUIDE

EBST

SERIES	VOLTS (V DC)	WATTS	HEAD/LAMP	LAMP TYPE	COLOR	INPUT VOLTAGE (V AC)	OPTIONS
EBST	06 - 6 12 - 12 24 - 24	SEE MODEL RATING BELOW	0 - NO HEADS 1SM - ONE PAR18/MR16 2SM - TWO PAR18/MR16 1MD - ONE MR16 2MD - TWO MR16 1MB - ONE MR16 2MB - TWO MR16 1HO - ONE INDUSTRIAL 2HO - TWO INDUSTRIAL	SEE LAMP LIST BELOW	WHT - WHITE (STANDARD) BLK - BLACK GRY - GREY	BLANK - 120/347 277 - 277	ACT, ATD, AUD ¹ , AUE, BTD, DCT, FS4, IRC, IRT, LPD, MTS, NLC, SMH ² , TLP ³ , VDR, WGD

¹ Only available with ATD.

² SMH not compatible with the HO heads.

³ Specify AC voltage.

⁴ Only available in 120 V AC.

OPTIONS

DESCRIPTION	DESCRIPTION
ACT ¹ AC TERMINAL BLOCK	LPD LAMP DISCONNECT (INTERNAL)
ATD ² AUTOMATIC TEST SELF-DIAGNOSTIC	MTS MOUNTING SHELF (ORDER SEPARATELY)
AUD ³ AUDIBLE DIAGNOSTIC	NLC OCTAGON BOX MOUNT (NO LINE CORD)
AUE AUDIBLE EMERGENCY	RDS RADIO FREQUENCY SUPPRESSION (SPECIFY AC VOLTAGE)
BTD BATTERY DISCONNECT	SMH SIDE MOUNTED HEADS
DCT DC TERMINAL BLOCK	TLP ³ TWIST LOCK PLUG
FS4 4 CIRCUIT FUSED INTERNAL DISTRIBUTION	VDR TAMPER PROOF SCREWS
IRC INFRARED CONTROLLER	WGD WIREGUARD
IRT INFRARED REMOTE	

¹ ACT & TLP are incompatible together.

² ATD features may overlap with the following options: VLT, TDL, AMP & RDS. Contact customer service for more information.

³ Only available with ATD.

WIREGUARD

		PART NUMBER	DIMENSIONS (IN)
WITHOUT HEAD	CABINET A	WGD520	14 x 10 x 4.75
	CABINET B	WGD520	14 x 10 x 4.75
	CABINET C	WGD510	17.25 x 17.25 x 7
	CABINET D	WGD650	13.75 x 12.25 x 16.5
WITH HEAD(S) ¹	CABINET A	WGD590	15.25 x 14.25 x 6.75
	CABINET B	WGD590	15.25 x 14.25 x 6.75
	CABINET C	WGD510	17.25 x 17.25 x 7
	CABINET D	WGD650	13.75 x 12.25 x 16.5

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

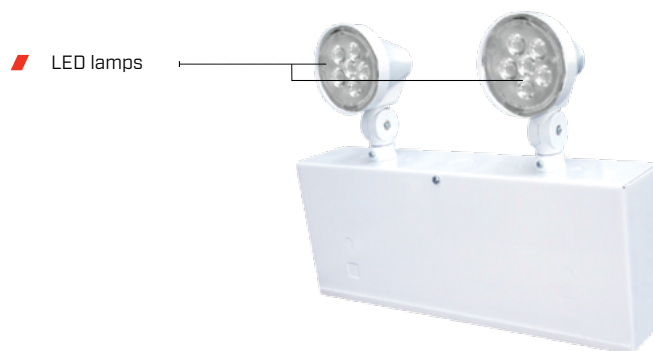
LAMP SELECTION

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, 12WQ	12WQ
TUNGSTEN	09WT	09WT	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	12WQ, 20WQ, 35WQ	12WQ, 20WQ
INDUSTRIAL			
LED		5WLJ, 9WLJ, 14WLJ	5WLJ, 9WLJ, 14WLJ

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.

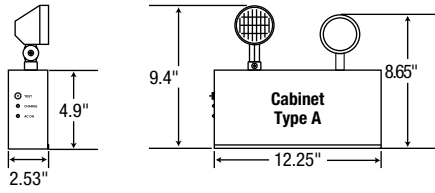
MODEL RATINGS

WATTAGE CAPACITIES (W)					
MODEL	VOLTS (V)	30 MIN.	90 MIN.	120 MIN.	CABINET
EBST06018	6	18	N/A	N/A	A
EBST06036	6	36	12	9	A
EBST06050	6	50	16	12	A
EBST06072	6	72	24	18	B
EBST06100	6	100	33	25	B
EBST06160	6	160	53	40	C
EBST06180	6	180	60	45	C
EBST12036	12	36	12	9	A
EBST12050	12	50	16	13	A
EBST12072	12	72	24	18	A
EBST12100	12	100	33	25	B
EBST12144	12	144	48	36	C
EBST12160	12	160	53	40	C
EBST12200	12	200	66	50	C
EBST12250	12	250	83	63	D
EBST12360	12	360	120	90	D
EBST24144	24	144	48	36	C
EBST24200	24	200	66	50	C
EBST24320	24	320	106	80	D
EBST24350	24	350	116	88	E
EBST24550	24	550	183	138	E
EBST24720	24	720	240	180	E

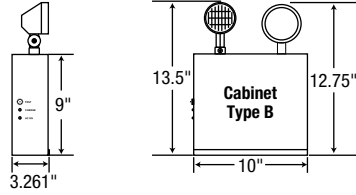


DIMENSIONS

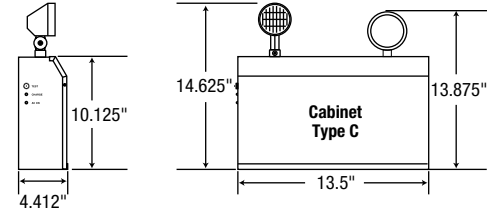
CABINET TYPE A



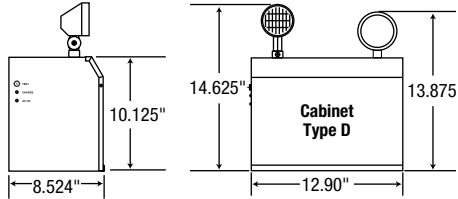
CABINET TYPE B



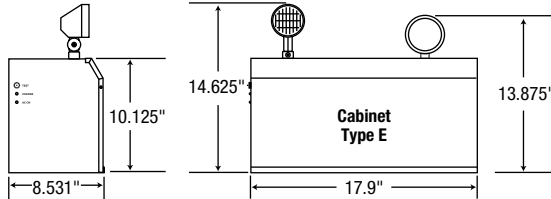
CABINET TYPE C



CABINET TYPE D

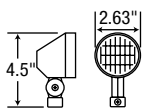


CABINET TYPE E



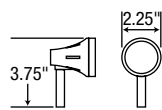
TYPE SM - PAR18

Thermoplastic
18 W max.



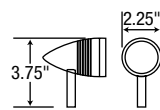
TYPE MD - MR16

Die cast
35 W max.



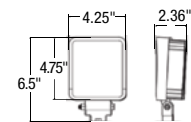
TYPE MB - MR16

Die cast
35 W max.



TYPE HD - INDUSTRIAL

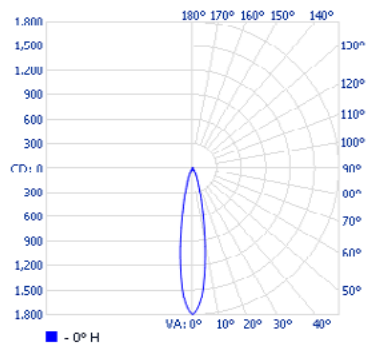
Die cast
14 W max.



PHOTOMETRIC DATA¹

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%

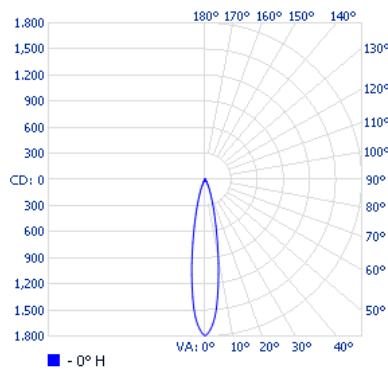
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
1.7'	622		0.6'	
3.3'	165		1.1'	
5.0	71.8		1.7'	
6.7	40.0		2.3'	
8.3	26.1		2.8'	
10.0	18.0		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%

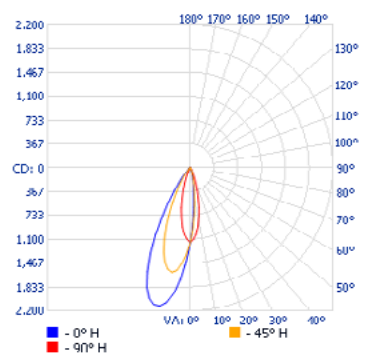
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
1.7'	402		0.8'	8.2'
3.3'	107		1.6'	16.4'
5.0	46.4		2.4'	24.6'
6.7	25.9		3.2'	32.8'
8.3	16.9		3.9'	41.0'
10.0	11.6		4.7'	49.2'

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

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'

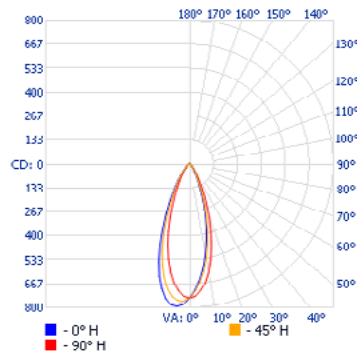
■ Vert. Spread: 28.6° ■ Hor. Spread: 29.4°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

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%

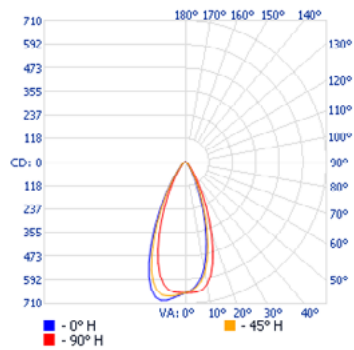
ILLUMINANCE AT A DISTANCE

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'	

■ 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%

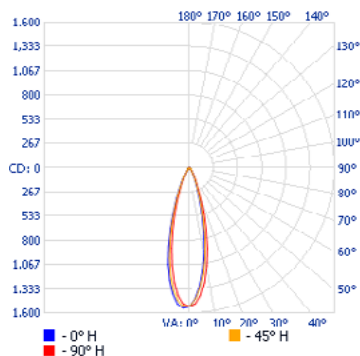
ILLUMINANCE AT A DISTANCE

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°

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'

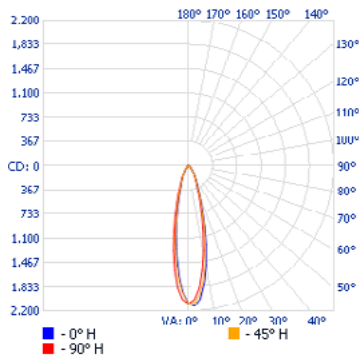
■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

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%

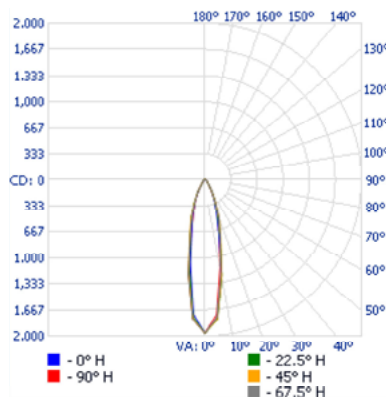
ILLUMINANCE AT A DISTANCE

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	16.9'	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

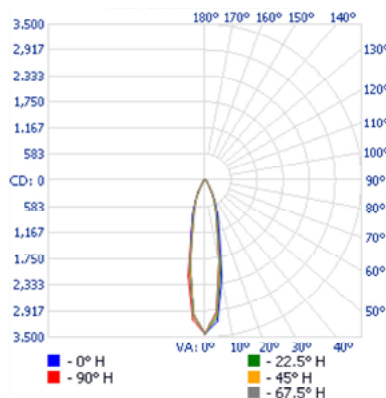
ILLUMINANCE AT A DISTANCE

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

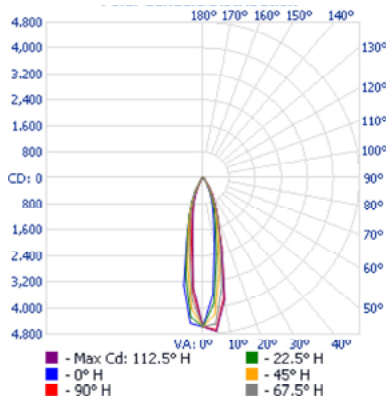
■ Vert. Spread: 23.8° ■ Hor. Spread: 22.9°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

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

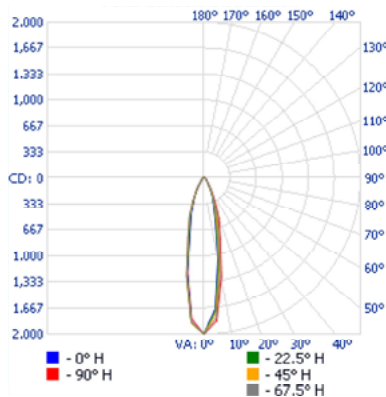
ILLUMINANCE AT A DISTANCE

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: 22.6° ■ 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

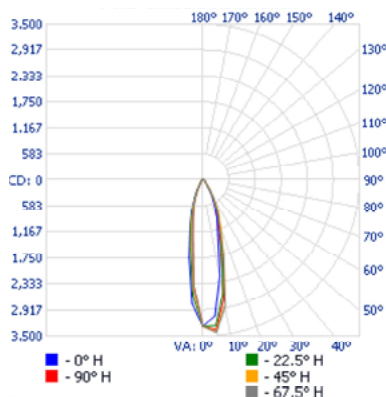
ILLUMINANCE AT A DISTANCE

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

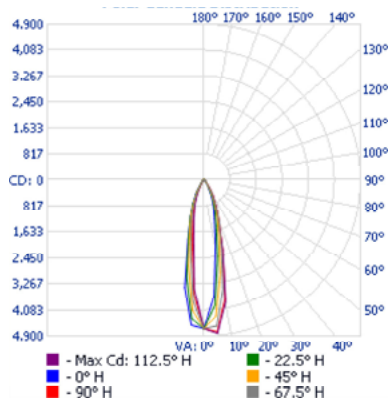
■ Vert. Spread: 24.5° ■ Hor. Spread: 22.6°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

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.