

S20LS

CONFIGURABLE LED STRIP

OPTIONAL EMERGENCY REMOTE



A narrow LED lensed strip creates a smooth diffused light that is ideal for commercial, industrial, retail or residential applications. Can be used in coves and display applications. Also ideal for task and general area lighting.

FEATURES & SPECIFICATIONS

CONSTRUCTION

Physical Characteristics

- Sleek and compact design ideal for installation in tight spaces
- White powder painted steel
- Frosted PMMA lens

Mounting

- Surface, suspended or row mounted (see accessories)
- Canopy plate for octagonal junction box included

PERFORMANCE DATA

- Available in 3 000, 3 500, 4 000 and 5 000 K color temperatures
- 80 CRI
- Electrical ratings: 120 V, 120-277 V and 347 V
- Estimated life of over 100 000 hours to L70
- 0-10 V dimming standard
- Operating temperature: -40 °C [-40 °F]
- Operating temperature with BRIDGE: -40 °C to 25 °C [-40 °F to 77 °F]

OPTIONAL EMERGENCY LIGHTING

BRIDGE Normally ON

Emergency Remote LED Strip

- Consuming 11 W, 12 - 24 VDC
- 200 mA constant current
- Delivers 746 - 848 lumens in emergency mode
- Ease of maintenance when used with AimLite emergency lighting battery units complete with auto test function
- Complements AimLite's normally ON LED strip family
- Patent pending








Please view the BRIDGE specification section for more details on this technology

EMERGENCY LIGHTING COMPLIANCES

- CSA certified as a C22.2 C141-15 emergency lighting luminaire
- Meets ICES-005 requirements

GENERAL LIGHTING COMPLIANCES

- CSA listed for damp locations
- Meets requirements of ICES-005 issue 4 class A for use in commercial applications

OVERVIEW			
LIGHT SOURCE	LED	EFFICACY (LM/W)	101.5 - 142
WATTS (W)	22 - 144	COLOR TEMPERATURE (K)	3 000, 3 500, 4 000, 5 000
LUMEN OUTPUT (LM)	2 530 - 17 981	CRI	80
      			

¹ 5 year warranty for the BRIDGE module.

ORDERING GUIDE

SERIES	SIZE	LAMP TYPE	LUMEN PACKAGE DELIVERED ¹	VOLTS [V]	COLOR TEMP. [K]	OPTIONS
S20LS	48 - 48"	L - LED	A2A - 2 530 LUMENS (22W)	4 - 120	30K - 3 000	EL - BRIDGE NORMALLY ON EMERGENCY REMOTE ^{2,3} DIM2 - LINE VOLTAGE DIMMING, 120 V DRIVER ⁴ DALI1 - DIGITAL ADDRESSABLE LIGHTING INTERFACE DRIVER ⁵ OS - OCCUPANCY SENSOR ⁶ L6 - 6' WHITE POWER CORD (3-WIRE) L10 - 10' WHITE POWER CORD (3-WIRE) L12 - 12' WHITE POWER CORD (3-WIRE)
	A3A - 3 710 LUMENS (35W)		8 - 347	35K - 3 500		
			A4A - 4 206 LUMENS (30W)	2 - 120-277	40K - 4 000	
			A5A - 6 043 LUMENS (45W)		50K - 5 000	
	96 - 96"		A6A - 8 990 LUMENS (72W)			
			A2A - 5 100 LUMENS (44W)			
			A3A - 7 400 LUMENS (73W)			
			A4A - 8 413 LUMENS (60W)			
			A5A - 12 086 LUMENS (88W)			
			A6A - 17 981 LUMENS (144W)			

¹ See IES files for details.

² When in emergency mode, luminaire only consumes 11 W.

For emergency lighting spacing with EL option, please see page 5.

³ EL option is compatible with the following configurations only: S20LS-48LA2A, S20LS-48LA3A and S20LS-48LA4A.

⁴ Not available for A6A lumen package.

⁵ Not available for 48" A2A and all 347 V configurations.

⁶ To see available options, please consult the occupancy sensors section.

ACCESSORIES (ORDER SEPARATELY)

PART NUMBER	TYPE
HAR766-A	V-HOOKS (SET OF 2)
BKT604	CONTINUOUS ROW MOUNTING CONNECTOR
WG0055-48-SL	WIREGUARD KIT 48" ¹
BKT347-A	SUSPENSION KIT - 2 CHAINS (1 METRE) ²
LEN261-4	REPLACEMENT LENS 48" ¹

¹ For 96" luminaires, order 2 units.

² Must be used in conjunction with HAR766-A.

BRIDGE TECHNICAL SPECIFICATION TABLE

SIZE	LUMEN PACKAGE	BRIDGE WATTS (W)	BRIDGE LUMEN OUTPUT (LM)
48"	A2A	11	783
	A3A	11	746
	A4A	11	848

TECHNICAL SPECIFICATION TABLE

SIZE	LUMEN PACKAGE	WATTS [W]	VOLTS [V]	3 000 K		3 500 K		4 000 K		5 000 K		CRI	LIFE L70 [H]	LM-80 TESTED HOURS [H]	POWER FACTOR	THD [%]	
				LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]						
48"	A2A	22	120	2 530	114	2 530	115	2 530	115	2 530	115	80	172 000	10 000	0.99	9.91	
			120-277	2 530	114	2 530	115	2 530	115	2 530	115	80	172 000	10 000	0.99	9.91	
			347	2 530	110	2 530	110	2 530	110	2 530	110	80	172 000	10 000	0.96	13.47	
	A3A	35	120	3 710	108	3 710	108	3 710	108	3 710	108	80	172 000	10 000	1.00	7.57	
			120-277	3 710	108	3 710	108	3 710	108	3 710	108	80	172 000	10 000	1.00	7.57	
			347	3 710	107	3 710	107	3 710	107	3 710	107	80	172 000	10 000	0.98	11.40	
	A4A	30	120	4 190	142	4 190	142	4 190	142	4 190	142	80	172 000	10 000	0.99	5.40	
			120-277	4 190	142	4 190	142	4 190	142	4 190	142	80	172 000	10 000	0.99	5.40	
			347	4 190	135	4 190	135	4 190	135	4 190	135	80	172 000	10 000	0.96	12.47	
	A5A	45	120	6 019	137	6 019	137	6 019	137	6 019	137	80	172 000	10 000	1.00	4.82	
			120-277	6 019	137	6 019	137	6 019	137	6 019	137	80	172 000	10 000	1.00	4.82	
			347	6 019	137	6 019	137	6 019	137	6 019	137	80	172 000	10 000	0.97	10.40	
	A6A	72	120	8 954	124	8 954	124	8 954	124	8 954	124	80	172 000	10 000	1.00	5.56	
			120-277	8 954	124	8 954	124	8 954	124	8 954	124	80	172 000	10 000	1.00	5.56	
			347	8 900	124	8 900	124	8 900	124	8 900	124	80	172 000	10 000	0.98	9.65	
	96"	A2A	44	120	5 117	116	5 117	116	5 117	116	5 117	116	80	172 000	10 000	1.00	5.73
				120-277	5 117	116	5 117	116	5 117	116	5 117	116	80	172 000	10 000	1.00	5.73
				347	5 117	116	5 117	116	5 117	116	5 117	116	80	172 000	10 000	0.98	8.99
A3A		73	120	7 440	101.5	7 440	101.5	7 440	101.5	7 440	101.5	80	172 000	10 000	1.00	5.73	
			120-277	7 440	101.5	7 440	101.5	7 440	101.5	7 440	101.5	80	172 000	10 000	1.00	5.73	
			347	7 440	101.5	7 440	101.5	7 440	101.5	7 440	101.5	80	172 000	10 000	0.98	8.99	
A4A		60	120	8 380	142	8 380	142	8 380	142	8 380	142	80	172 000	10 000	0.99	5.4	
			120-277	8 380	142	8 380	142	8 380	142	8 380	142	80	172 000	10 000	0.99	5.4	
			347	8 380	135	8 380	135	8 380	135	8 380	135	80	172 000	10 000	0.96	12.47	
A5A		88	120	12 038	138	12 038	138	12 038	138	12 038	138	80	172 000	10 000	1.00	4.82	
			120-277	12 038	138	12 038	138	12 038	138	12 038	138	80	172 000	10 000	1.00	4.82	
			347	12 038	137	12 038	137	12 038	137	12 038	137	80	172 000	10 000	0.97	10.4	
A6A		144	120	17 908	124	17 908	124	17 908	124	17 908	124	80	172 000	10 000	1.00	5.56	
			120-277	17 908	124	17 908	124	17 908	124	17 908	124	80	172 000	10 000	1.00	5.56	
			347	17 800	125	17 800	125	17 800	125	17 800	125	80	172 000	10 000	0.98	9.65	

COMPATIBLE DIMMERS¹

BRAND	MODEL
LEVITON	ILLUMATECH IP710-LFZ
LUTRON	DIVADVSTV, MAESTRO MS-Z101, NOVA T NTSTV
PHILIPS	SUNRISE SR1200ZTUNV

Dimming range: 10 %-100 %

¹ This table shows dimmers that have been tested and have demonstrated proper operation under normal conditions. Each installation being unique, various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance. Read and comply to the dimmer installation instructions. Consult dimming system manufacturer for additional support in operation. Some dimmers may require more than one product for stable operation. AimLite recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation.

OCCUPANCY SENSORS

ON-OFF SENSORS

Detection - On at [Detection Area] % during [Hold Time] min. Off

PART NUMBER	POSITION	VOLTS [V]	TECHNOLOGY	HEIGHT [FT]	DETECTION AREA [%]	HOLD TIME [MIN]	DAYLIGHT MIN LEVEL [LUX]	REMOTE ¹
OSE-PO-0301	EXTERNAL	120-347	PIR	20-40	100	20	N/A	
OSE-PO-0501	EXTERNAL	120-347	PIR	15-40	100	15	3000	OSI-FSIR-100
OSE-PO-0502	EXTERNAL	120-347	PIR	15-40	100	15	3000	
OSI-FO-0301	INTERNAL	120-277	HIGH FREQUENCY	32 MAX	100	20	DISABLE	
OSI-FO-0601	INTERNAL	120-347	HIGH FREQUENCY	25 MAX	100	30	DISABLE	OSI-RC-MH02

¹ To be ordered separately.

BI-LEVEL SENSORS

Detection - On at [Detection Area] % during [Hold Time] min., then [Stand-by Dim level] %

PART NUMBER	POSITION	VOLTS [V]	TECHNOLOGY	HEIGHT [FT]	DETECTION AREA [%]	HOLD TIME [MIN]	STAND-BY DIM LEVEL [%]	DAYLIGHT MIN LEVEL [LUX]	REMOTE ¹
OSI-FB-0301	INTERNAL	120-277	HIGH FREQUENCY	32 MAX	100	20	30	DISABLE	
OSI-FB-0302	INTERNAL	120-277	HIGH FREQUENCY	32 MAX	100	20	10	DISABLE	
OSI-FB-0303	INTERNAL	120-277	HIGH FREQUENCY	32 MAX	100	20	50	DISABLE	
OSI-FB-0601	INTERNAL	120-347	HIGH FREQUENCY	25 MAX	100	30	30	DISABLE	OSI-RC-MH02
OSI-FB-0602	INTERNAL	120-347	HIGH FREQUENCY	25 MAX	100	30	10	DISABLE	OSI-RC-MH02
OSI-FB-0603	INTERNAL	120-347	HIGH FREQUENCY	25 MAX	100	15	40	DISABLE	OSI-RC-MH02
OSI-FB-0604	INTERNAL	120-347	HIGH FREQUENCY	25 MAX	100	30	40	DISABLE	OSI-RC-MH02

¹ To be ordered separately

TRI-LEVEL SENSORS

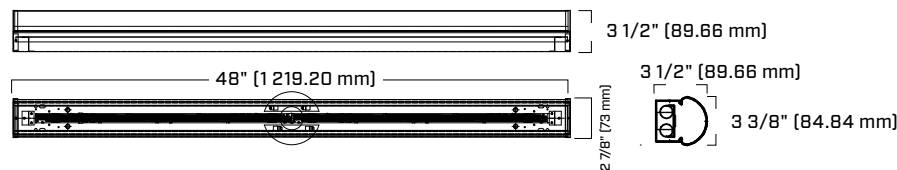
Detection - On at [Detection Area] % during [Hold Time] min., then [Stand-by Dim level] % during [Stand-by period] min. Off

PART NUMBER	POSITION	VOLTS [V]	TECHNOLOGY	HEIGHT [FT]	DETECTION AREA [%]	HOLD TIME [MIN]	STAND-BY DIM LEVEL [%]	STAND-BY PERIOD [MIN]	DAYLIGHT MIN LEVEL [LUX]	REMOTE ¹
OSI-FT-0301	INTERNAL	120-277V	HIGH FREQUENCY	32 MAX	100	20	30	10	DISABLE	
OSI-FT-0601	INTERNAL	120-347V	HIGH FREQUENCY	25 MAX	100	30	30	10	DISABLE	OSI-RC-MH02

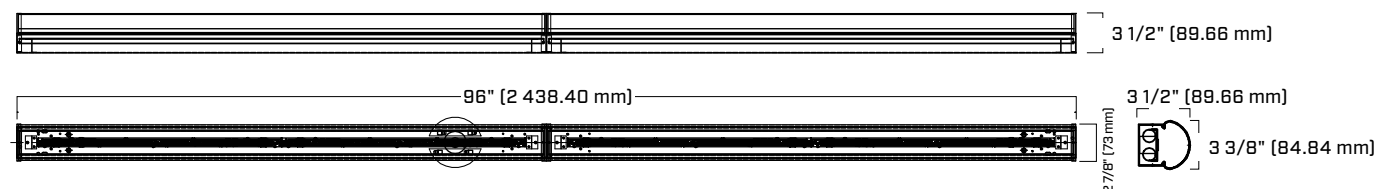
¹ To be ordered separately.

DIMENSIONS

48"



96"



	48"	96"
NET WEIGHT (LBS)	5.51	10.36

BRIDGE

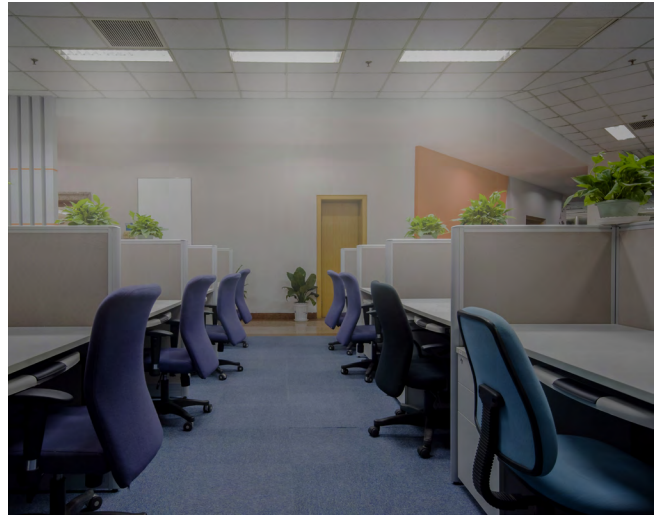
NORMALLY ON EMERGENCY REMOTE LUMINAIRE

This luminaire can be used with an emergency backup powered by either a 12 V or 24 V DC AimLite battery unit, complete with or without auto test.

NORMAL MODE



EMERGENCY MODE



TYPICAL SPECIFICATION

Supply and install AimLite BRIDGE 4ft, LED Strip, Model number: _____ remote normally ON emergency luminaire, CSA C22.2 141-15 certified and meet the requirements prescribed by ICES-005 . Normally ON when AC is present and when connected to an AimLite battery unit complete with or without auto test, the fixture shall act as an emergency lighting remote and consume 11 W of DC power in ____ V producing 746 - 848 lumens in emergency mode.

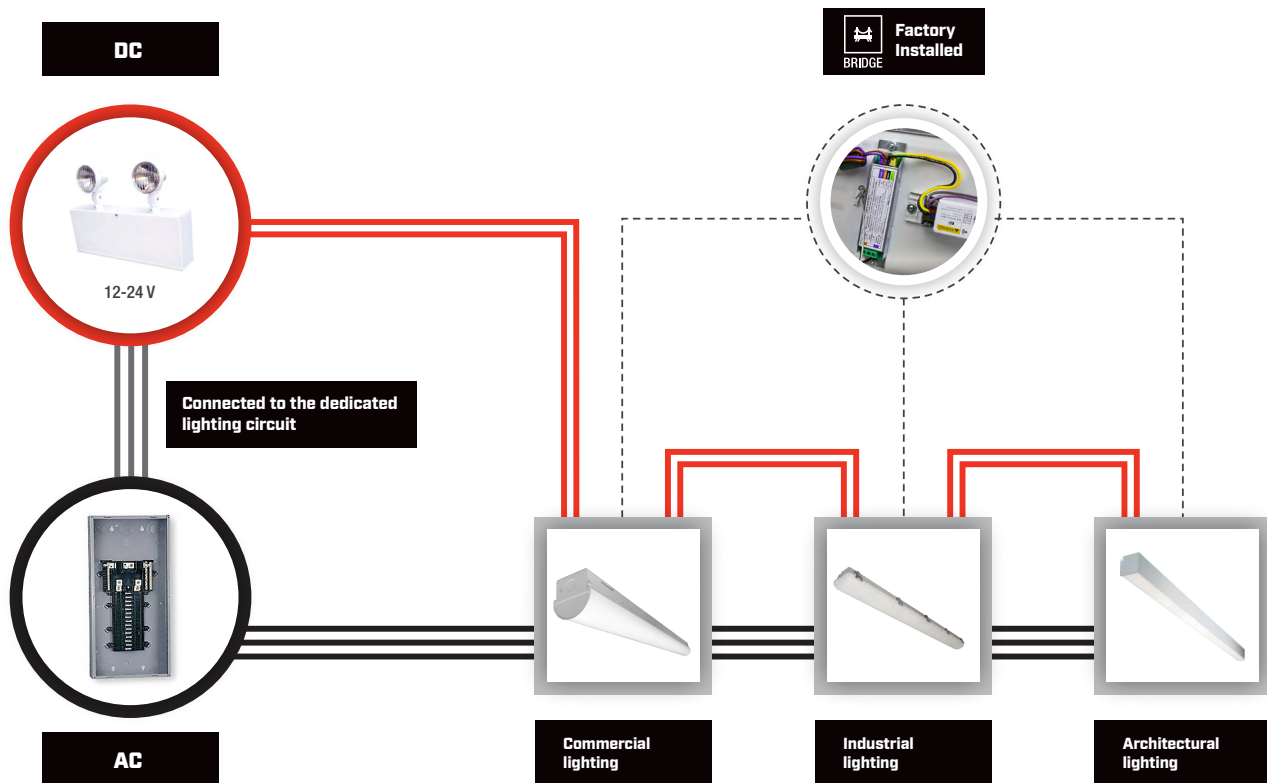
The remote normally ON emergency luminaire shall be powered by an AimLite emergency lighting battery unit as described herein and shown on the drawings. The AimLite auto diagnostic micro-controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120 V, 277 V or 347 V, 60 Hz and be CSA listed. The unit shall have an output of: __V and __W.

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 topped off. 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 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 insures that the battery charger is recharging the battery in accordance with code requirements. The unit shall be AimLite model: EBST_____

BRIDGE NORMALLY ON EMERGENCY REMOTE LUMINAIRE

BRIDGE WIRING DIAGRAM



LEGEND

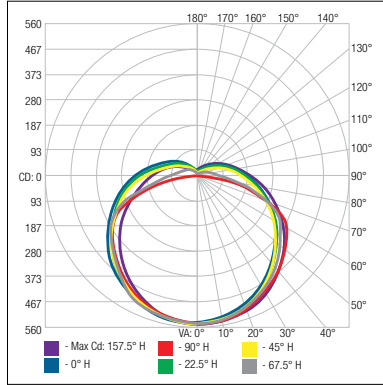
- AC wires
- Connected to the dedicated lighting circuit
- DC wires
- BRIDGE Factory Installed

Emergency mode	Spacing
S20LS	Average spacing for 1 out of every 4 luminaires, normally ON in the path of egress, when at 8, 10, or 12 foot mounting heights.

PHOTOMETRIC DATA¹

S20LS-48LA2A-XX/40K • 2 433.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

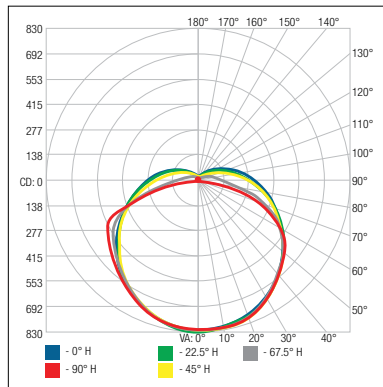
ZONE	LUMENS	% FIXTURE
0-30	437.6	17.3
0-40	731.9	28.9
0-60	1 400.3	55.3
60-90	756.5	29.9
70-100	569.2	22.5
90-120	285.3	11.3
0-90	2 156.7	85.2
90-180	374.3	14.8
0-180	2 531.0	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH		
1.7'	190		12.4'	9.0'	
3.3'	50.5		24.0'	17.4'	
5.0'	22.0		36.4'	26.3'	
6.7'	12.3		48.8'	35.3'	
8.3'	7.99		60.5'	43.7'	
10.0'	5.50		72.8'	52.7'	
■ Vert. Spread: 149.3° ■ Hor. Spread: 138.4°					

S20LS-48LA3A-XX/40K • 3 725.8 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

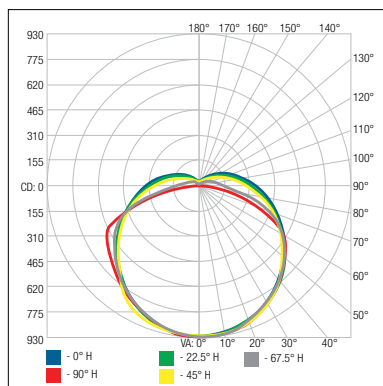
ZONE	LUMENS	% FIXTURE
0-30	652.0	17.5
0-40	1 089.9	29.3
0-60	2 076.9	55.7
60-90	1 107.0	29.7
70-100	827.6	22.2
90-120	409.9	11
0-90	3 183.9	85.5
90-180	541.9	14.5
0-180	3 725.8	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH		
1.7'	284 fc		11.3'	8.9'	
3.3'	75.3 fc		21.9'	17.3'	
5.0'	32.8 fc		33.2'	26.2'	
6.7'	18.3 fc		44.5'	35.1'	
8.3'	11.9 fc		55.2'	43.5'	
10.0'	8.20 fc		66.5'	52.4'	
■ Vert. Spread: 146.5° ■ Hor. Spread: 138.2°					

S20LS-48LA4A-XX/40K • 4 206.4 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	736.1	17.5
0-40	1 230.4	29.3
0-60	2 344.8	55.7
60-90	1 249.8	29.7
70-100	934.3	22.2
90-120	462.8	11
0-90	3 594.6	85.5
90-180	611.8	14.5
0-180	4 206.4	100

ILLUMINANCE AT A DISTANCE

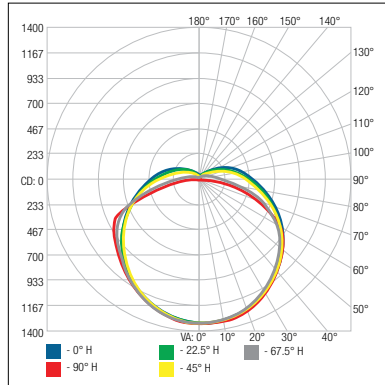
CENTER BEAM FC			BEAM WIDTH		
1.7'	320		11.3'	8.9'	
3.3'	85.0		21.9'	17.3'	
5.0'	37.0		33.2'	26.2'	
6.7'	20.6		44.5'	35.1'	
8.3'	13.4		55.2'	43.5'	
10.0'	9.26		66.5'	52.4'	
■ Vert. Spread: 146.5° ■ Hor. Spread: 138.2°					

¹Complete IES files available on our website.

PHOTOMETRIC DATA¹ (CONT'D)

S20LS-48LA5A-XX/40K • 6 043.2 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 057.5	17.5
0-40	1 767.7	29.3
0-60	3 368.7	55.7
60-90	1 795.5	29.7
70-100	1 342.3	22.2
90-120	664.9	11
0-90	5 164.2	85.5
90-180	879	14.5
0-180	6 043.2	100

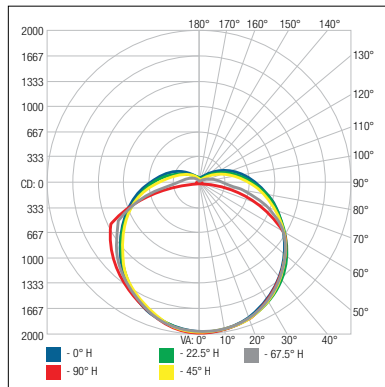
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH
1.7'	460	
3.3'	122	21.9' 17.3'
5.0'	53.2	33.2' 26.2'
6.7'	29.6	44.5' 35.1'
8.3'	19.3	55.2' 43.5'
10.0'	13.3	66.5' 52.4'

■ Vert. Spread: 146.5° ■ Hor. Spread: 138.2°

S20LS-48LA6A-XX/40K • 8 990.3 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 573.2	17.5
0-40	2 629.8	29.3
0-60	5 011.5	55.7
60-90	2 671.1	29.7
70-100	1 996.9	22.2
90-120	989.2	11
0-90	7 682.7	85.5
90-180	1 307.6	14.5
0-180	8 990.3	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH
1.7'	685	
3.3'	182	21.9' 17.3'
5.0'	79.2	33.2' 26.3'
6.7'	44.1	44.5' 35.1'
8.3'	28.7	55.2' 43.5'
10.0'	19.8	66.5' 52.4'

■ Vert. Spread: 146.5° ■ Hor. Spread: 138.2°

¹ Complete IES files available on our website.