

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SURE-LITES

Report Number:

Luminaire Tested: **029-75**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number:
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SURE-LITES
Catalog Number: 029-75
Description: SURE-LITES EMERGENCY
EFFICIENCY 99.2
Light Source: 7.2 PAR36 7.2 WATTS 81 LUMENS Incandescent (Low Voltage)
6 V PAR36 INCANDESCENT SEALED BEAM
ANSI# 7672-1
Ballast/Driver: -

Summary

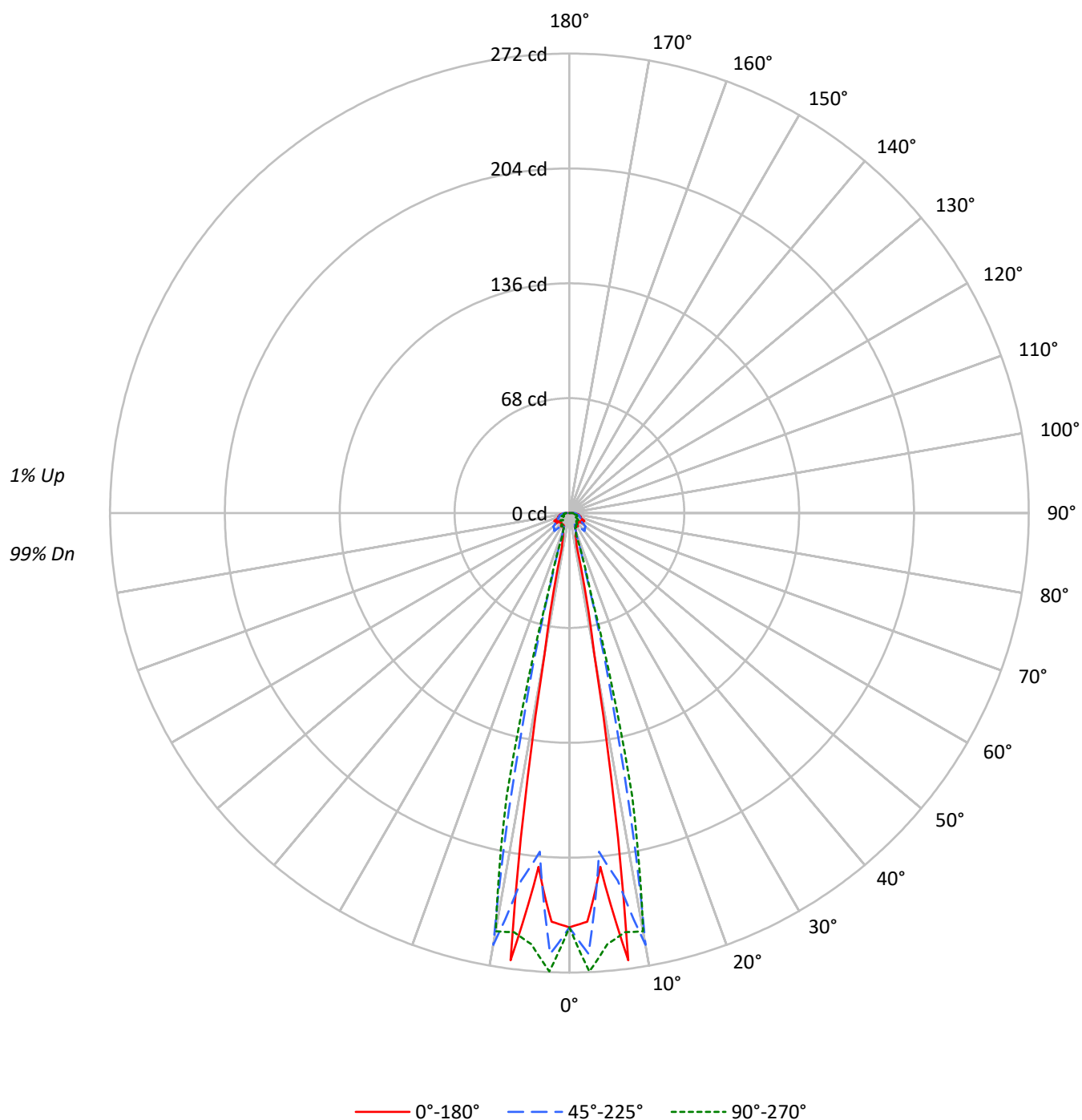
Lumens per Lamp: 81 (1 lamp)
Luminaire Lumens: 80.7 lumens
Efficiency: 99.7%
Efficacy: 11.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.47 / 0.36
Luminous Opening: (L: 0 ' x W: -0.38 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		110	110	110		106	106	106		101	101	101
1	109	104	100	96	106	102	98	94		97	94	91		93	91	89		90	88	86
2	101	93	87	82	98	92	86	81		88	83	79		85	81	77		82	79	76
3	94	85	78	73	92	84	77	72		81	75	71		78	73	70		76	72	68
4	89	79	72	66	87	78	71	66		75	69	65		73	68	64		71	67	63
5	84	74	66	61	82	73	66	61		71	65	60		69	64	59		67	62	59
6	80	69	62	57	78	69	62	57		67	61	56		65	60	56		64	59	56
7	77	66	59	54	75	65	59	54		64	58	54		62	57	53		61	56	53
8	74	63	56	52	72	62	56	51		61	55	51		60	55	51		59	54	51
9	71	60	54	50	70	60	54	49		59	53	49		58	53	49		57	52	49
10	68	58	52	48	67	58	52	48		57	51	47		56	51	47		55	50	47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminous shape not found, reference photometric report, or contact the photometric lab for calculations.		
5°			
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	21.5	26.7	26.6	0°	245	245	245	245	245	
10°-20°	16.0	19.9	19.8	5°	210	203	201	229	256	20
20°-30°	4.2	5.2	5.2	15°	14	15	40	58	48	6
30°-40°	5.7	7.1	7.1	25°	9	11	8	8	9	4
40°-50°	7.0	8.7	8.6	35°	8	10	10	8	8	5
50°-60°	7.8	9.6	9.6	45°	8	8	13	8	6	6
60°-70°	7.1	8.8	8.8	55°	8	9	8	10	5	8
70°-80°	6.6	8.2	8.2	65°	8	8	8	8	4	8
80°-90°	4.3	5.3	5.3	75°	6	7	6	8	4	7
90°-100°	0.4	0.5	0.5	85°	4	4	4	4	3	4
100°-110°	0.0	0.0	0.0	90°	2	3	3	3	2	1
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	41.8	51.7	51.6	165°	0	0	0	0	0	0
0°-40°	47.5	58.8	58.6	175°	0	0	0	0	0	0
0°-60°	62.3	77.1	76.9	180°	0	0	0	0	0	0
0°-90°	80.3	99.5	99.2							
90°-120°	0.4	0.5	0.5							
90°-150°	0.4	0.5	0.5							
90°-180°	0.0	0.0	0.0							
0°-180°	80.7	100.0	99.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	245.2	245.2	245.2	245.2	245.2
2.5°	242.1	248.3	261.2	270.9	271.6
5°	210.2	202.6	201.3	229.4	256.3
7.5°	267.0	256.0	219.5	211.6	250.3
10°	85.5	129.7	259.5	223.8	251.3
12.5°	20.1	31.2	126.6	189.2	171.4
15°	14.1	15.1	40.0	58.4	48.4
17.5°	12.5	12.6	14.8	17.4	13.6
20°	11.2	11.2	10.3	11.7	9.9
22.5°	8.3	9.1	8.6	9.3	9.2
25°	9.2	10.8	7.5	8.1	9.4
27.5°	7.8	10.6	7.7	8.3	8.1
30°	9.1	9.8	8.4	7.9	9.1
32.5°	9.4	9.7	9.0	7.3	8.9
35°	8.4	10.2	10.1	7.7	7.7
37.5°	7.4	10.7	11.4	8.0	6.7
40°	7.8	11.1	13.8	8.0	6.6
42.5°	7.9	8.5	13.5	8.4	5.6
45°	7.5	7.7	12.6	8.1	5.7
47.5°	6.8	6.5	12.6	8.4	6.8
50°	8.0	6.9	12.5	9.6	6.9
52.5°	10.3	7.8	10.6	10.5	6.1
55°	8.1	9.1	8.2	10.5	5.1
57.5°	9.6	9.6	6.6	11.0	4.1
60°	9.5	7.4	6.4	9.4	4.1
62.5°	10.1	7.5	7.7	8.1	4.2
65°	8.1	7.5	7.6	7.5	3.8
67.5°	7.3	7.0	7.0	7.4	4.9
70°	6.9	7.9	6.0	7.6	5.0
72.5°	7.0	8.0	6.0	7.5	4.7
75°	6.3	6.9	6.2	7.6	4.2
77.5°	5.9	6.7	5.5	6.7	2.8
80°	5.6	5.6	4.6	5.8	3.4
82.5°	5.2	5.3	4.3	4.3	2.9
85°	3.6	4.2	3.8	4.0	2.7
87.5°	2.9	3.9	3.4	3.4	2.3
90°	2.4	3.4	3.4	3.0	2.1
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)