

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: **029-37**

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: 029-37
Description: SURE-LITES EMERGENCY
EFFICIENCY 99.1
Light Source: 6PAR36 6 WATTS 81 LUMENS Quartz Halogen (Low Voltage)
PAR36 HALOGEN SEALED BEAM
ANSI# H7556
Ballast/Driver: -

Summary

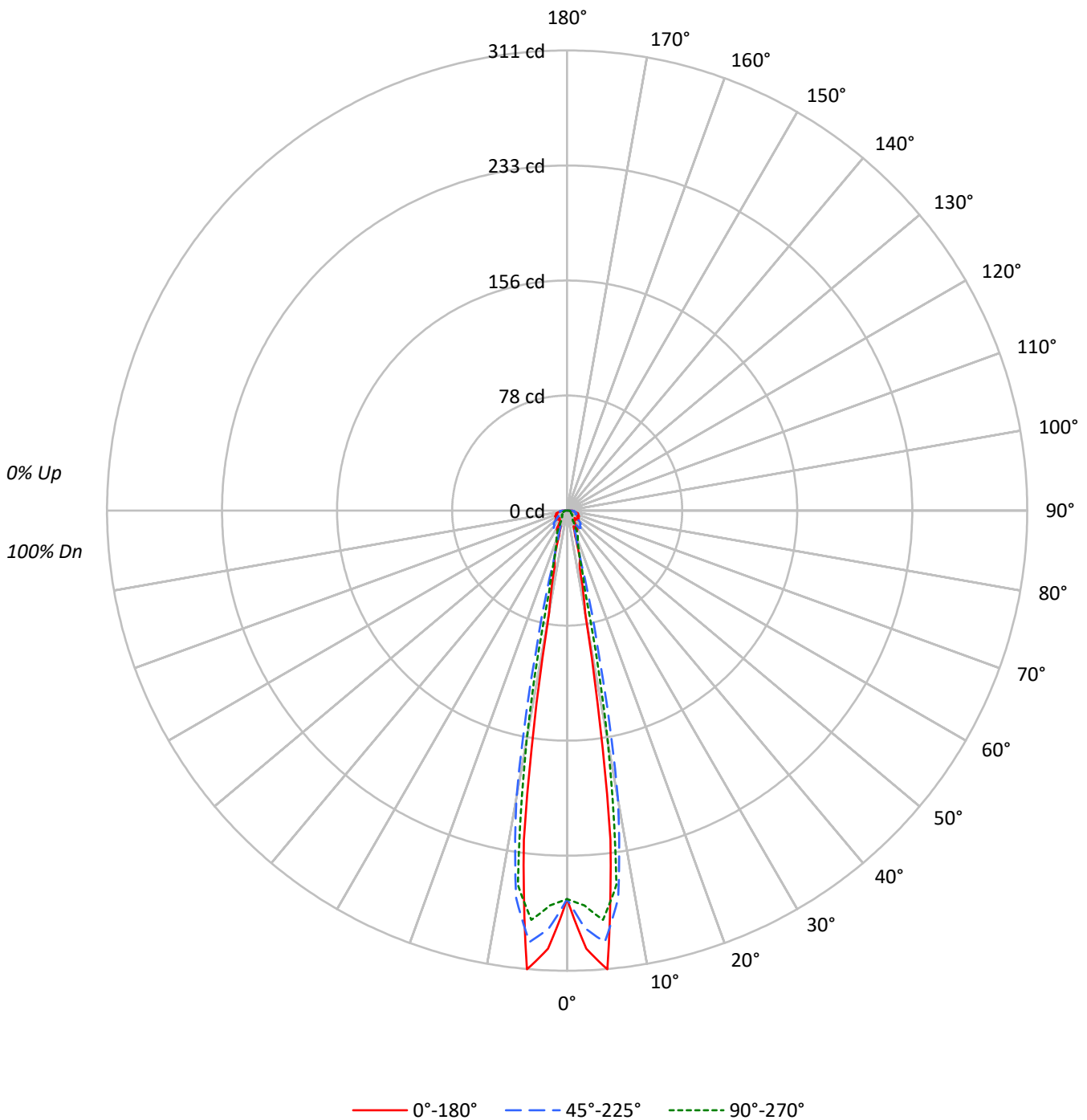
Lumens per Lamp: 81 (1 lamp)
Luminaire Lumens: 80.7 lumens
Efficiency: 99.6%
Efficacy: 13.4 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.37 / 0.34
Luminous Opening: (L: 0' x W: -0.38' x H: 0'
CIE Type: Direct

Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): 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				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	118	118	118	118	116	116	116	116	110	110	110		106	106	106		101	101	101	99
1	109	104	100	97	106	102	98	95	98	95	92		94	91	89		90	88	86	84
2	101	94	88	83	99	92	87	82	89	84	80		85	82	78		82	79	77	75
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77	73	70	68
4	90	80	73	67	88	79	72	67	76	71	66		74	69	65		72	68	64	63
5	85	75	68	63	83	74	67	62	72	66	62		70	65	61		68	64	60	59
6	81	71	64	59	79	70	63	58	68	62	58		67	62	58		65	61	57	55
7	78	67	60	56	76	66	60	56	65	59	55		64	59	55		63	58	54	53
8	75	64	58	53	73	64	57	53	62	57	53		61	56	53		60	56	52	51
9	72	62	55	51	71	61	55	51	60	55	51		59	54	51		58	54	50	49
10	69	59	53	49	68	59	53	49	58	53	49		57	52	49		56	52	49	47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
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°	23.9	29.6	29.5	0°	262	262	262	262	262	
10°-20°	13.1	16.2	16.1	5°	311	309	293	287	278	21
20°-30°	6.0	7.4	7.4	15°	33	27	36	36	33	9
30°-40°	6.5	8.0	8.0	25°	13	13	11	13	15	6
40°-50°	6.8	8.5	8.4	35°	9	13	14	7	6	6
50°-60°	6.9	8.6	8.6	45°	7	8	13	7	5	6
60°-70°	6.6	8.2	8.1	55°	9	8	8	9	3	8
70°-80°	6.1	7.6	7.6	65°	9	8	7	7	3	8
80°-90°	4.4	5.4	5.4	75°	7	7	6	6	2	8
90°-100°	0.4	0.5	0.5	85°	4	5	5	4	2	3
100°-110°	0.0	0.0	0.0	90°	3	3	3	2	1	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°	43.0	53.2	53.0	165°	0	0	0	0	0	0
0°-40°	49.5	61.3	61.0	175°	0	0	0	0	0	0
0°-60°	63.2	78.3	78.0	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	99.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	262.5	262.5	262.5	262.5	262.5
2.5°	296.4	289.0	282.7	282.7	267.2
5°	311.2	309.4	292.7	286.8	277.7
7.5°	224.3	271.5	264.2	282.8	255.0
10°	70.6	83.4	197.7	219.4	157.1
12.5°	38.7	42.6	96.7	86.7	55.5
15°	32.9	27.4	35.8	36.5	32.8
17.5°	17.8	18.5	21.1	26.2	24.3
20°	14.0	14.6	15.6	22.0	21.0
22.5°	11.4	12.3	12.0	16.5	18.7
25°	12.9	12.8	10.7	12.7	15.3
27.5°	15.0	13.3	10.8	9.4	10.2
30°	13.6	15.5	10.9	8.2	7.6
32.5°	9.0	13.8	11.7	7.4	6.9
35°	8.7	12.6	14.4	7.0	5.8
37.5°	7.9	11.8	15.0	6.9	5.6
40°	8.1	12.6	13.6	7.4	5.5
42.5°	8.6	10.1	12.9	7.5	5.2
45°	7.1	8.4	12.9	7.1	4.9
47.5°	8.2	7.5	11.8	8.0	4.5
50°	10.4	7.5	9.7	7.3	4.6
52.5°	9.0	8.2	9.1	8.5	4.1
55°	9.0	8.1	7.6	8.8	3.2
57.5°	9.2	9.4	7.1	8.5	3.1
60°	7.7	8.0	6.5	7.7	2.8
62.5°	8.4	7.8	6.3	6.9	3.2
65°	9.0	7.6	6.8	6.6	3.1
67.5°	7.3	7.4	5.9	6.7	3.4
70°	7.5	7.6	6.7	6.8	3.3
72.5°	7.9	7.0	6.3	6.9	2.7
75°	7.3	6.6	6.1	6.3	2.0
77.5°	6.7	6.0	5.9	4.9	2.0
80°	5.7	6.0	4.8	4.3	1.9
82.5°	4.2	5.9	5.0	5.2	2.0
85°	3.7	5.2	5.2	4.3	1.9
87.5°	4.1	4.0	3.2	2.6	1.2
90°	3.2	3.4	3.1	2.4	1.1
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)