

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: **029-79**

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: 029-79
Description: SURE-LITES EMERGENCY
EFFICIENCY 99.2
Light Source: 12PAR36 12 WATTS 266 LUMENS Quartz Halogen (Low Voltage)
12 V PAR36 HALOGEN SEALED BEAM
ANSI# H7557
Ballast/Driver: -

Summary

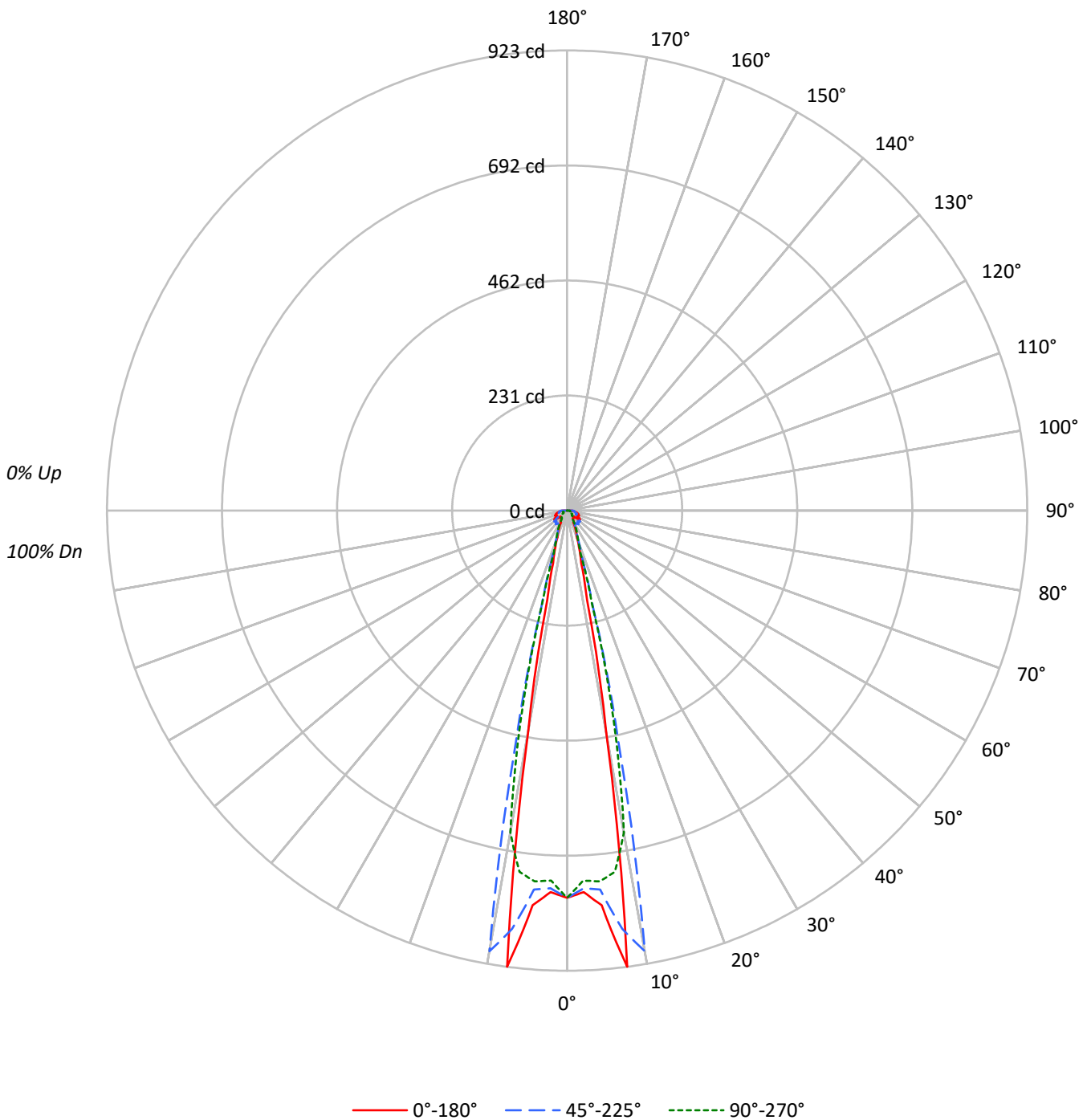
Lumens per Lamp: 266 (1 lamp)
Luminaire Lumens: 265.2 lumens
Efficiency: 99.7%
Efficacy: 22.1 lumens/watt
Spacing Criteria (0/90/45): 0.37 / 0.45 / 0.38
Luminous Opening: (L: 0 ' x W: -0.38 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 12
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				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		101	101	101	99
1	109	105	101	98	107	103	99	96	98	96	93		94	92	90		91	89	87	85
2	102	95	90	85	100	93	88	84	90	86	82		87	83	80		84	81	78	76
3	96	88	81	76	94	86	80	76	83	78	74		81	77	73		78	75	72	70
4	91	82	75	70	89	81	74	70	78	73	69		76	71	68		74	70	67	65
5	87	77	70	65	85	76	70	65	74	69	64		72	67	64		71	66	63	61
6	83	73	66	62	81	72	66	61	71	65	61		69	64	60		68	63	60	58
7	80	70	63	59	78	69	63	58	68	62	58		66	61	58		65	61	57	56
8	77	67	60	56	75	66	60	56	65	60	56		64	59	55		63	58	55	54
9	74	64	58	54	73	64	58	54	63	57	54		62	57	54		61	57	53	52
10	72	62	56	52	71	61	56	52	61	56	52		60	55	52		59	55	52	50

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°	74.2	28.0	27.9	0°	776	776	776	776	776	
10°-20°	64.5	24.3	24.2	5°	795	774	763	776	747	73
20°-30°	19.2	7.3	7.2	15°	109	112	201	272	191	40
30°-40°	16.0	6.0	6.0	25°	37	40	42	43	44	17
40°-50°	17.4	6.6	6.6	35°	20	28	31	21	18	14
50°-60°	20.5	7.7	7.7	45°	20	18	30	19	15	15
60°-70°	19.1	7.2	7.2	55°	32	26	21	25	11	25
70°-80°	19.4	7.3	7.3	65°	24	20	20	20	8	24
80°-90°	13.5	5.1	5.1	75°	21	22	18	19	7	22
90°-100°	1.3	0.5	0.5	85°	12	14	14	12	5	11
100°-110°	0.0	0.0	0.0	90°	10	10	12	9	4	4
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°	157.9	59.5	59.3	165°	0	0	0	0	0	0
0°-40°	173.9	65.6	65.4	175°	0	0	0	0	0	0
0°-60°	211.9	79.9	79.7	180°	0	0	0	0	0	0
0°-90°	263.9	99.5	99.2							
90°-120°	1.3	0.5	0.5							
90°-150°	1.3	0.5	0.5							
90°-180°	1.0	0.4	0.4							
0°-180°	265.2	100.0	99.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	776.5	776.5	776.5	776.5	776.5
2.5°	765.9	765.7	758.4	747.9	742.7
5°	794.8	774.0	762.9	776.1	746.6
7.5°	922.9	956.6	846.3	742.1	731.1
10°	449.5	570.5	897.5	710.5	655.5
12.5°	183.5	192.9	475.4	549.8	433.0
15°	108.7	112.0	200.8	272.1	191.2
17.5°	81.1	80.9	99.7	110.0	88.4
20°	57.2	59.5	68.2	66.3	64.7
22.5°	47.7	48.0	51.4	50.9	53.4
25°	37.0	39.6	41.7	42.9	44.5
27.5°	26.7	30.4	32.5	35.5	36.6
30°	26.3	29.0	31.2	28.8	26.9
32.5°	24.3	29.2	30.1	23.2	20.9
35°	20.0	28.2	31.1	21.1	18.1
37.5°	20.2	25.4	34.2	20.2	18.0
40°	18.3	23.1	35.4	20.2	17.9
42.5°	19.5	20.1	32.4	20.7	15.7
45°	19.9	18.0	29.9	19.1	14.6
47.5°	17.3	18.4	33.3	21.9	14.6
50°	21.9	20.6	33.9	22.7	12.8
52.5°	27.8	25.9	28.0	25.2	12.7
55°	31.5	26.0	21.1	25.3	11.1
57.5°	29.8	22.3	19.5	27.0	8.4
60°	25.1	20.9	17.5	22.9	8.0
62.5°	22.3	20.6	17.8	19.6	8.0
65°	24.0	20.3	20.2	19.6	7.7
67.5°	26.2	21.4	19.4	21.1	8.3
70°	23.3	23.0	20.4	21.7	8.8
72.5°	24.0	23.1	20.7	19.6	8.3
75°	21.2	22.1	18.3	19.4	7.1
77.5°	20.1	20.7	16.3	17.6	6.0
80°	16.3	20.3	15.7	16.1	5.6
82.5°	15.3	17.3	15.2	13.9	5.6
85°	12.3	13.5	14.1	11.9	5.4
87.5°	11.3	11.8	13.0	10.2	4.7
90°	10.2	10.5	11.5	8.8	4.3
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)