

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: **029-26**

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: 029-26
Description: SURE-LITES EMERGENCY
EFFICIENCY 100.4
Light Source: -
ANSI# 4044
Ballast/Driver: -

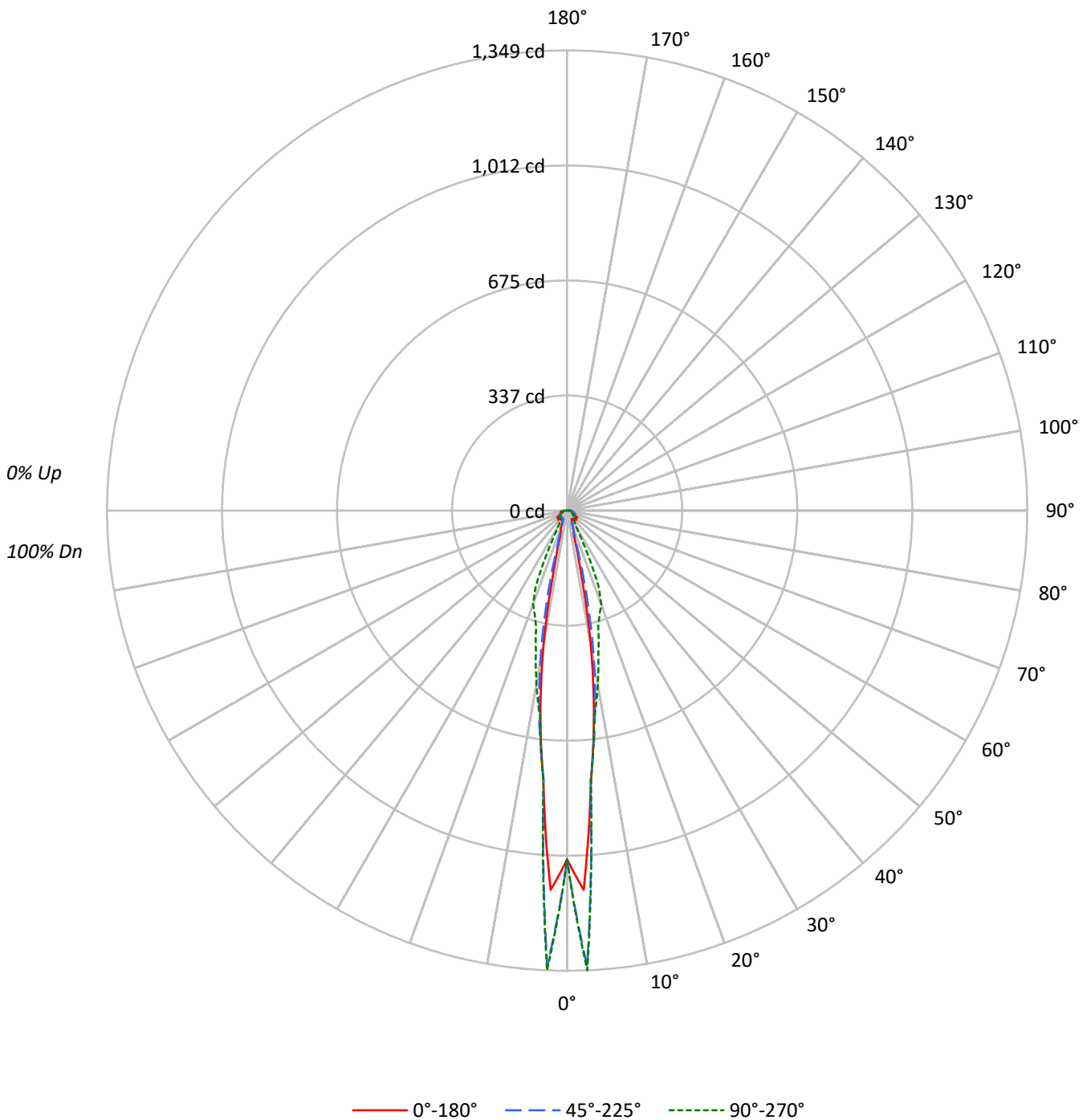
Summary

Lumens per Lamp: 177 (1 lamp)
Luminaire Lumens: 261.6 lumens
Efficiency: 147.8%
Efficacy: 21.8 lumens/watt
Spacing Criteria (0/90/45): 0.29 / 0.34 / 0.32
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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	176	176	176	176	172	172	172	172	164	164	164	157	157	157	150	150	150	147	147	147	147
1	162	156	150	145	158	152	147	142	146	142	138	140	137	133	135	132	129	126	126	126	126
2	151	141	133	126	148	139	131	124	133	127	121	129	123	119	124	120	116	113	113	113	113
3	142	130	120	113	139	128	119	112	124	116	110	120	113	108	116	111	106	103	103	103	103
4	135	121	111	103	132	119	110	102	116	108	101	112	105	100	109	103	98	96	96	96	96
5	128	114	103	96	125	112	103	95	109	101	94	107	99	93	104	98	93	90	90	90	90
6	122	107	97	90	120	106	97	90	104	95	89	101	94	88	99	93	88	85	85	85	85
7	117	102	92	86	115	101	92	85	99	91	85	97	90	84	95	89	84	81	81	81	81
8	113	98	88	82	111	97	88	82	95	87	81	93	86	81	92	85	80	78	78	78	78
9	109	94	85	79	107	93	84	78	91	84	78	90	83	78	89	82	77	75	75	75	75
10	105	90	82	76	103	90	81	76	88	81	75	87	80	75	86	80	75	73	73	73	73

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°	70.7	27.0	40.0	0°	1023	1023	1023	1023	1023	
10°-20°	57.8	22.1	32.7	5°	798	805	790	1038	797	65
20°-30°	24.2	9.3	13.7	15°	76	86	120	304	352	34
30°-40°	17.4	6.7	9.8	25°	33	30	27	51	145	16
40°-50°	20.0	7.7	11.3	35°	31	29	27	22	39	19
50°-60°	20.4	7.8	11.5	45°	38	32	25	15	30	27
60°-70°	19.1	7.3	10.8	55°	36	24	23	15	24	29
70°-80°	17.4	6.7	9.8	65°	20	20	27	14	16	21
80°-90°	13.3	5.1	7.5	75°	20	20	18	10	14	20
90°-100°	1.2	0.5	0.7	85°	10	17	13	9	10	11
100°-110°	0.0	0.0	0.0	90°	6	9	11	8	8	3
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°	152.8	58.4	86.3	165°	0	0	0	0	0	0
0°-40°	170.1	65.0	96.1	175°	0	0	0	0	0	0
0°-60°	210.6	80.5	119.0	180°	0	0	0	0	0	0
0°-90°	260.4	99.5	147.1							
90°-120°	1.2	0.5	0.7							
90°-150°	1.2	0.5	0.7							
90°-180°	1.0	0.4	0.6							
0°-180°	261.6	100.0	147.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023	1023	1023	1023	1023
2.5°	1113	1176	1337	1395	1349
5°	798	805	790	1038	797
7.5°	600	612	623	629	609
10°	395	431	452	531	518
12.5°	185	201	280	431	423
15°	76	86	120	304	352
17.5°	61	47	62	199	317
20°	52	34	41	135	292
22.5°	37	29	32	82	239
25°	33	30	27	51	145
27.5°	29	28	27	36	72
30°	28	27	25	26	47
32.5°	32	27	27	23	42
35°	31	29	27	22	39
37.5°	29	30	26	19	35
40°	32	30	25	17	33
42.5°	35	30	26	15	31
45°	38	32	25	15	30
47.5°	32	33	24	14	29
50°	32	31	24	15	29
52.5°	34	28	23	15	28
55°	36	24	23	15	24
57.5°	29	23	23	15	20
60°	26	19	24	15	18
62.5°	22	21	25	14	16
65°	20	20	27	14	16
67.5°	19	21	24	13	15
70°	18	20	22	12	14
72.5°	20	21	20	11	14
75°	20	20	18	10	14
77.5°	20	21	17	10	13
80°	17	19	16	9	14
82.5°	16	18	15	9	12
85°	10	17	13	9	10
87.5°	9	12	13	9	9
90°	6	9	11	8	8
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	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
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)