

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: E395-599

Luminaire Tested: **H274-405SC**

Issue Date: 03/03/2020



**Test Information**

Test Method: LM-79-08  
Report Number: E395-599  
Test Lab:  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SURE-LITES  
Catalog Number: H274-405SC  
Description: RECESSED FLUOR - CLEAR SPECULAR REFLECTOR  
Light Source: QUAD PL13, 860 LUMENS  
Ballast/Driver: -

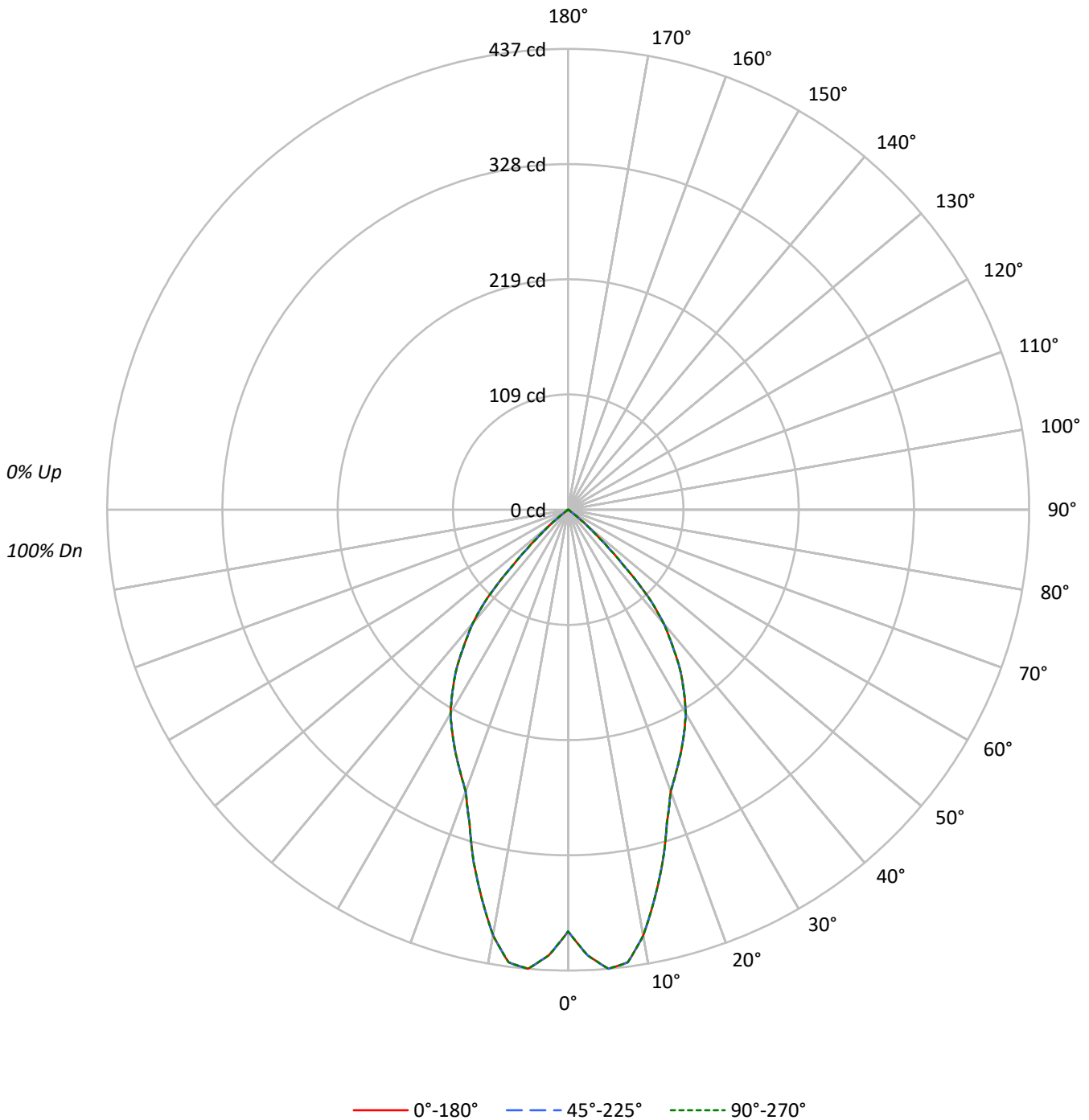
**Summary**

Lumens per Lamp: 860 (1 lamp)  
Luminaire Lumens: 431.4 lumens  
Efficiency: 50.2%  
Efficacy: 27.0 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 1  
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 16  
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	60	60	60	60	58	58	58	58	56	56	56		53	53	53		51	51	51	50
1	57	55	54	53	56	54	53	52	52	51	50		50	50	49		49	48	47	47
2	54	51	49	47	53	50	48	47	49	47	46		47	46	45		46	45	44	43
3	51	47	45	43	50	47	44	42	45	43	41		44	42	41		43	41	40	39
4	48	44	41	39	47	43	40	38	42	40	38		41	39	37		40	38	37	36
5	45	41	38	35	44	40	37	35	39	37	35		38	36	34		38	36	34	33
6	43	38	35	32	42	37	34	32	37	34	32		36	34	32		35	33	32	31
7	40	35	32	30	40	35	32	30	34	32	30		34	31	29		33	31	29	28
8	38	33	30	28	38	33	30	28	32	29	27		32	29	27		31	29	27	26
9	36	31	28	26	36	31	28	26	30	27	26		30	27	25		29	27	25	25
10	34	29	26	24	34	29	26	24	28	26	24		28	26	24		28	25	24	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
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°	45°	90°	135°	180°	Flux
0°-10°	40.7	9.4	4.7	0°	400	400	400	400	400	
10°-20°	96.1	22.3	11.2	5°	437	437	437	437	437	41
20°-30°	116.3	27.0	13.5	15°	346	346	346	346	346	96
30°-40°	114.1	26.5	13.3	25°	253	253	253	253	253	116
40°-50°	58.4	13.5	6.8	35°	185	185	185	185	185	114
50°-60°	4.9	1.1	0.6	45°	73	73	73	73	73	58
60°-70°	0.9	0.2	0.1	55°	2	2	2	2	2	5
70°-80°	0.0	0.0	0.0	65°	1	1	1	1	1	1
80°-90°	0.0	0.0	0.0	75°	0	0	0	0	0	0
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	0
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	253.1	58.7	29.4	165°	0	0	0	0	0	0
0°-40°	367.2	85.1	42.7	175°	0	0	0	0	0	0
0°-60°	430.5	99.8	50.1	180°	0	0	0	0	0	0
0°-90°	431.4	100.0	50.2							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	431.4	100.0	50.2							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	400	400	400	400	400	400	400	400	400
2.5°	423	423	423	423	423	423	423	423	423
5°	437	437	437	437	437	437	437	437	437
7.5°	433	433	433	433	433	433	433	433	433
10°	410	410	410	410	410	410	410	410	410
12.5°	378	378	378	378	378	378	378	378	378
15°	346	346	346	346	346	346	346	346	346
17.5°	311	311	311	311	311	311	311	311	311
20°	284	284	284	284	284	284	284	284	284
22.5°	268	268	268	268	268	268	268	268	268
25°	253	253	253	253	253	253	253	253	253
27.5°	238	238	238	238	238	238	238	238	238
30°	223	223	223	223	223	223	223	223	223
32.5°	204	204	204	204	204	204	204	204	204
35°	185	185	185	185	185	185	185	185	185
37.5°	162	162	162	162	162	162	162	162	162
40°	141	141	141	141	141	141	141	141	141
42.5°	113	113	113	113	113	113	113	113	113
45°	73	73	73	73	73	73	73	73	73
47.5°	41	41	41	41	41	41	41	41	41
50°	22	22	22	22	22	22	22	22	22
52.5°	7	7	7	7	7	7	7	7	7
55°	2	2	2	2	2	2	2	2	2
57.5°	2	2	2	2	2	2	2	2	2
60°	1	1	1	1	1	1	1	1	1
62.5°	1	1	1	1	1	1	1	1	1
65°	1	1	1	1	1	1	1	1	1
67.5°	1	1	1	1	1	1	1	1	1
70°	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	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°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)