

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: CORELITE

Report Number: P844801

Luminaire Tested: **SQ4P-100U-0D-B50-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P844801  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-034-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-100U-0D-B50-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT  
UPLIGHT, INDIRECT ONLY  
  
Light Source: -  
Ballast/Driver: -

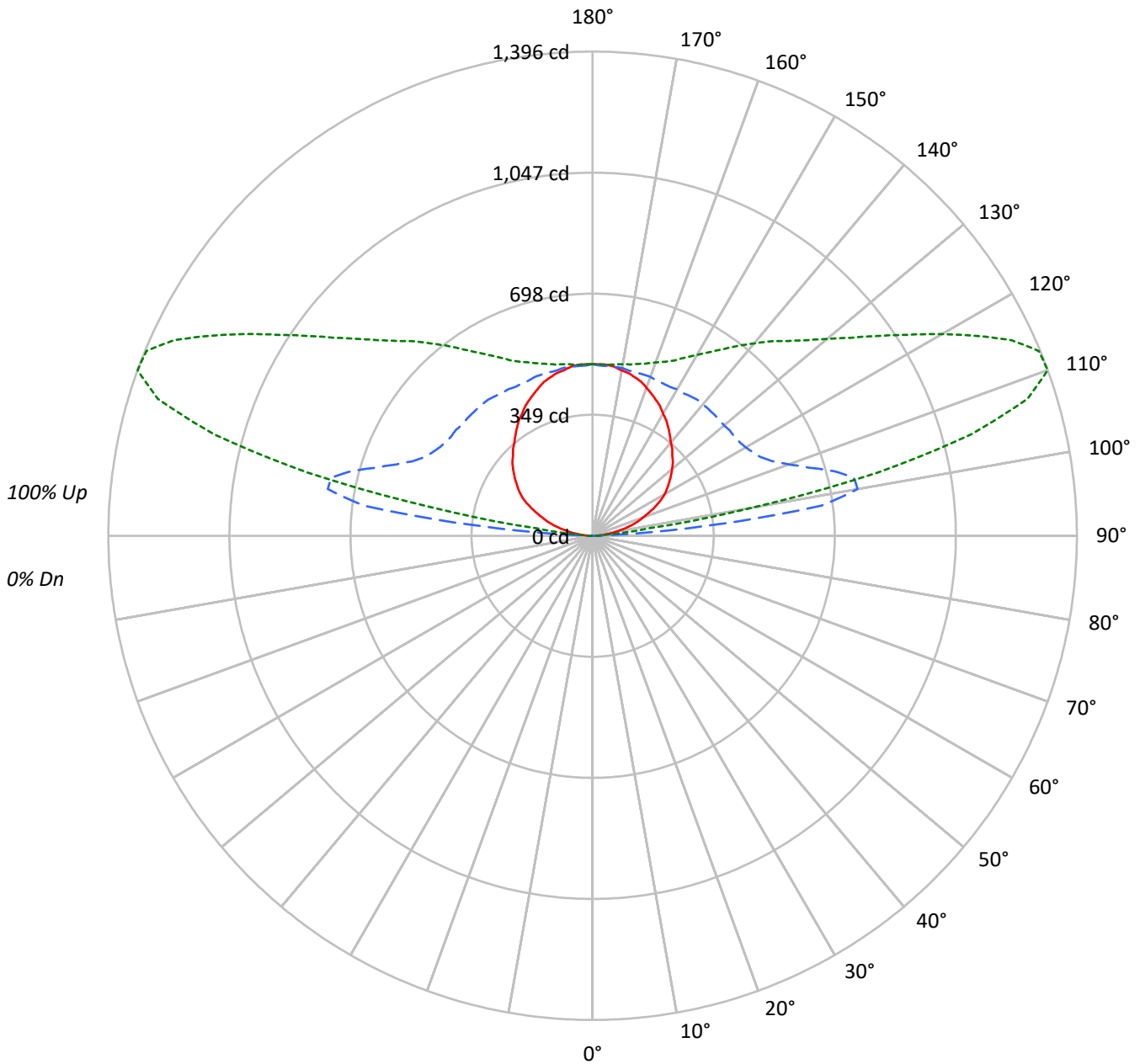
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3208.3 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 26  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	50	30	10	0
RCR																					
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	8	8	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	7	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	6	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	5	5	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	4	4	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	4	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	3	3	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	3	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	3	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	2	2	2	0

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

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	1.2	0.0
90°-100°	195.1	6.1
100°-110°	685.1	21.4
110°-120°	663.1	20.7
120°-130°	518.3	16.2
130°-140°	412.0	12.8
140°-150°	318.2	9.9
150°-160°	228.4	7.1
160°-170°	139.5	4.3
170°-180°	47.2	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.2	0.0
90°-120°	1543.3	48.1
90°-150°	2791.9	87.0
90°-180°	3207.0	100.0
0°-180°	3208.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	7	11	11	7	4	5
95°	33	114	332	85	52	35
105°	114	162	720	1215	1130	120
115°	199	240	535	1130	1333	197
125°	270	332	498	842	1004	241
135°	325	366	495	702	794	252
145°	380	406	491	606	657	238
155°	432	447	484	539	558	199
165°	473	476	487	510	513	133
175°	495	495	491	498	495	47
180°	495	495	495	495	495	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	7.4	7.4	11.0	11.0	14.8	14.8	11.0	11.0	7.4	7.4	7.4
92.5°	18.5	29.5	48.0	55.4	77.6	66.5	51.7	33.2	25.9	22.2	22.2
95°	33.2	44.3	92.3	114.4	217.8	343.4	332.4	276.9	121.9	84.9	77.6
97.5°	51.7	59.1	103.4	129.3	258.5	564.9	664.7	664.7	457.9	302.8	254.8
100°	70.2	77.6	114.4	136.6	251.1	590.8	775.4	897.3	864.1	727.4	661.0
102.5°	92.3	103.4	129.3	147.7	243.7	561.3	771.7	956.4	1078.3	1022.9	993.3
105°	114.4	129.3	147.7	162.5	243.7	513.2	720.0	930.5	1189.0	1214.9	1211.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	177.3	192.0	210.5	217.8	273.2	432.0	561.3	720.0	1041.3	1222.2	1259.1
115°	199.4	210.5	236.3	240.0	284.4	424.6	535.4	664.7	952.7	1130.0	1177.9
117.5°	221.5	225.2	262.2	265.9	299.1	424.6	520.7	631.5	878.8	1045.0	1089.3
120°	240.0	243.7	288.0	288.0	313.9	428.3	509.6	605.6	816.1	963.7	1008.1
122.5°	254.8	258.5	310.2	310.2	332.4	428.3	502.2	590.8	771.7	897.3	934.2
125°	269.5	273.2	324.9	332.4	347.1	435.7	498.5	576.1	734.9	841.9	871.5
127.5°	284.4	288.0	328.6	347.1	365.6	439.5	498.5	564.9	701.6	801.3	827.1
130°	299.1	302.8	336.1	354.5	384.0	443.1	494.8	553.9	679.5	760.7	786.6
132.5°	313.9	317.6	343.4	358.2	395.1	450.5	494.8	546.5	657.3	731.2	753.3
135°	324.9	332.4	354.5	365.6	406.2	454.2	494.8	535.4	635.1	701.6	720.0
137.5°	339.7	347.1	365.6	372.9	409.8	461.5	494.8	531.7	616.6	675.7	694.2
140°	350.8	358.2	376.6	384.0	417.3	465.3	494.8	528.1	598.2	649.9	664.7
142.5°	365.6	372.9	387.8	395.1	421.0	469.0	494.8	524.4	583.4	624.1	638.8
145°	380.3	384.0	398.8	406.2	428.3	469.0	491.1	516.9	568.6	605.6	613.0
147.5°	395.1	398.8	413.6	417.3	439.5	469.0	487.4	513.2	553.9	587.1	594.5
150°	406.2	413.6	424.6	428.3	446.8	472.7	487.4	505.9	542.8	568.6	576.1
152.5°	421.0	424.6	432.0	439.5	454.2	472.7	483.7	502.2	531.7	550.2	557.6
155°	432.0	435.7	443.1	446.8	461.5	476.4	483.7	498.5	520.7	539.1	542.8
157.5°	443.1	446.8	454.2	457.9	465.3	480.0	483.7	498.5	516.9	528.1	531.7
160°	454.2	457.9	461.5	465.3	472.7	480.0	487.4	494.8	509.6	520.7	524.4
162.5°	465.3	465.3	469.0	472.7	480.0	483.7	487.4	494.8	505.9	513.2	516.9
165°	472.7	472.7	476.4	476.4	483.7	483.7	487.4	494.8	502.2	509.6	509.6
167.5°	480.0	480.0	483.7	483.7	487.4	487.4	487.4	494.8	498.5	505.9	505.9
170°	483.7	487.4	487.4	487.4	491.1	491.1	491.1	494.8	498.5	502.2	502.2
172.5°	491.1	491.1	491.1	491.1	494.8	491.1	491.1	494.8	498.5	498.5	498.5
175°	494.8	494.8	494.8	494.8	494.8	491.1	491.1	494.8	494.8	498.5	498.5
177.5°	494.8	494.8	494.8	494.8	498.5	491.1	491.1	494.8	494.8	498.5	498.5
180°	494.8	494.8	494.8	494.8	494.8	494.8	494.8	494.8	494.8	494.8	494.8



TEST NUMBER: P844801

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**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	0.0	0.0
2.5°	0.0	0.0
5°	0.0	0.0
7.5°	0.0	0.0
10°	0.0	0.0
12.5°	0.0	0.0
15°	0.0	0.0
17.5°	0.0	0.0
20°	0.0	0.0
22.5°	0.0	0.0
25°	0.0	0.0
27.5°	0.0	0.0
30°	0.0	0.0
32.5°	0.0	0.0
35°	0.0	0.0
37.5°	0.0	0.0
40°	0.0	0.0
42.5°	0.0	0.0
45°	0.0	0.0
47.5°	0.0	0.0
50°	0.0	0.0
52.5°	0.0	0.0
55°	0.0	0.0
57.5°	0.0	0.0
60°	0.0	0.0
62.5°	0.0	0.0
65°	0.0	0.0
67.5°	0.0	0.0
70°	0.0	0.0
72.5°	0.0	0.0
75°	0.0	0.0
77.5°	0.0	0.0
80°	0.0	0.0
82.5°	0.0	0.0
85°	0.0	0.0
87.5°	0.0	0.0
90°	3.7	3.7
92.5°	18.5	18.5
95°	55.4	51.7
97.5°	184.6	162.5
100°	513.2	469.0
102.5°	875.1	841.9
105°	1144.7	1130.0





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	1362.5	1392.1
115°	1299.8	1333.0
117.5°	1207.5	1248.1
120°	1126.2	1163.2
122.5°	1045.0	1078.3
125°	971.2	1004.4
127.5°	908.4	937.9
130°	856.7	882.5
132.5°	816.1	834.5
135°	775.4	793.9
137.5°	742.2	760.7
140°	709.0	723.7
142.5°	675.7	690.5
145°	646.2	657.3
147.5°	620.3	627.8
150°	594.5	601.9
152.5°	576.1	579.8
155°	557.6	557.6
157.5°	542.8	542.8
160°	528.1	531.7
162.5°	520.7	520.7
165°	513.2	513.2
167.5°	505.9	505.9
170°	502.2	502.2
172.5°	502.2	498.5
175°	498.5	494.8
177.5°	498.5	494.8
180°	494.8	494.8



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	136.6	151.4	166.1	181.0	247.4	472.7	653.6	860.3	1189.0	1299.8	1310.8
110°	155.1	173.6	188.3	199.4	258.5	446.8	601.9	786.6	1126.2	1288.8	1318.3







107.5°	1322.0	<i>1314.6</i>
110°	<i>1381.0</i>	<i>1395.8</i>



(END OF REPORT)