

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: P844795

Luminaire Tested: **SQ4P-050U-0D-B50-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P844795  
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-050U-0D-B50-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT  
UPLIGHT, INDIRECT ONLY  
  
Light Source: -  
Ballast/Driver: -

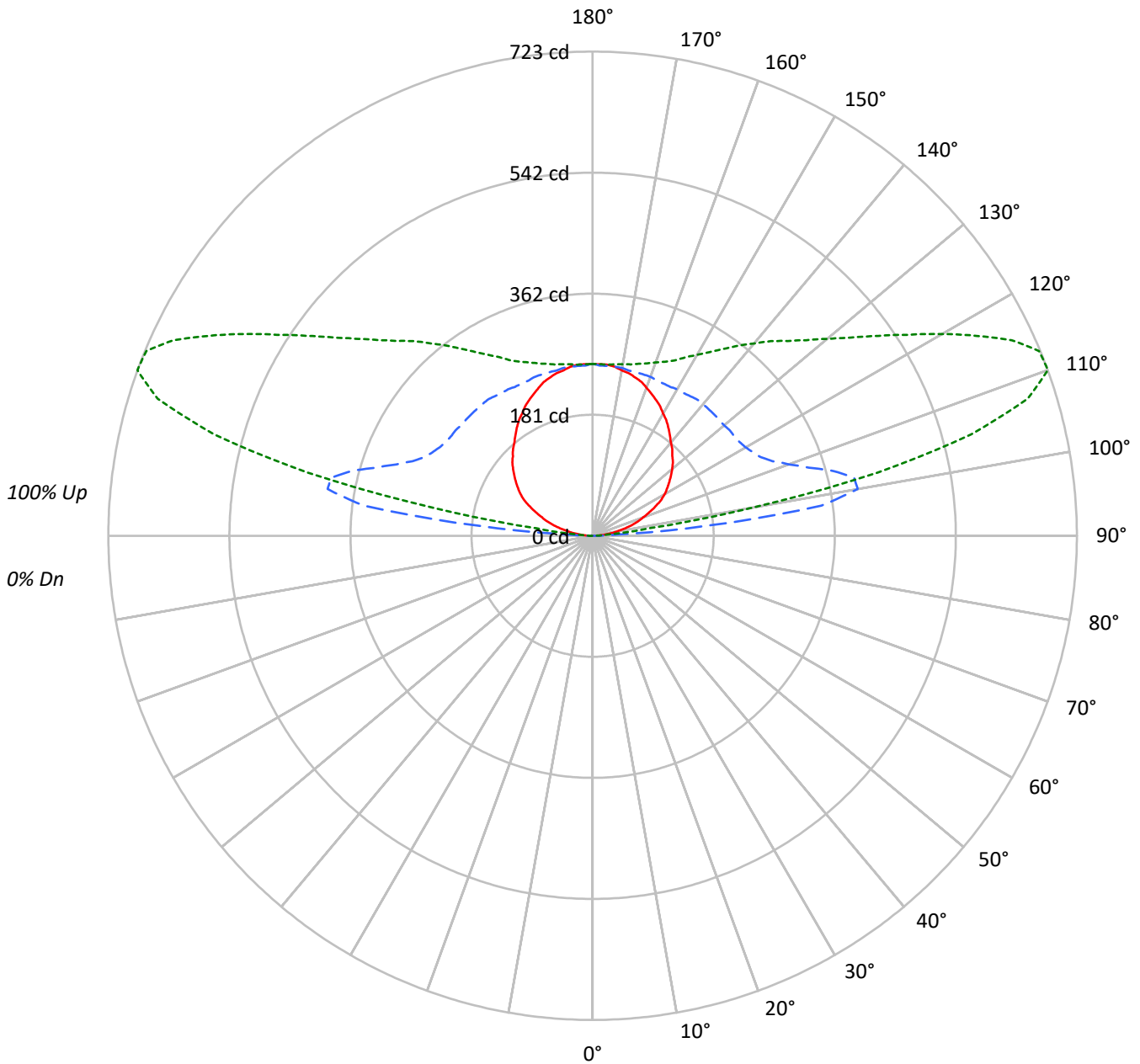
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1662.2 lumens  
Efficiency: N/A  
Efficacy: 127.9 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): 13  
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	0
RCR																		
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	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°	0.6	0.0
90°-100°	101.1	6.1
100°-110°	355.0	21.4
110°-120°	343.6	20.7
120°-130°	268.5	16.2
130°-140°	213.5	12.8
140°-150°	164.9	9.9
150°-160°	118.3	7.1
160°-170°	72.3	4.3
170°-180°	24.5	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.6	0.0
90°-120°	799.6	48.1
90°-150°	1446.5	87.0
90°-180°	1662.0	100.0
0°-180°	1662.2	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°	4	6	6	4	2	2
95°	17	59	172	44	27	18
105°	59	84	373	629	585	62
115°	103	124	277	585	691	102
125°	140	172	258	436	520	125
135°	168	189	256	364	411	130
145°	197	210	254	314	340	123
155°	224	232	251	279	289	103
165°	245	247	253	264	266	69
175°	256	256	254	258	256	24
180°	256	256	256	256	256	



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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°	3.8	3.8	5.7	5.7	7.6	7.6	5.7	5.7	3.8	3.8	3.8
92.5°	9.5	15.3	24.8	28.7	40.2	34.5	26.8	17.2	13.4	11.5	11.5
95°	17.2	22.9	47.8	59.3	112.9	177.9	172.2	143.5	63.1	44.0	40.2
97.5°	26.8	30.7	53.6	66.9	133.9	292.7	344.3	344.3	237.2	156.9	132.0
100°	36.4	40.2	59.3	70.8	130.0	306.1	401.8	464.9	447.6	376.9	342.4
102.5°	47.8	53.6	66.9	76.5	126.2	290.8	399.9	495.5	558.6	529.9	514.7
105°	59.3	66.9	76.5	84.2	126.2	265.9	373.1	482.1	616.1	629.4	627.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	91.9	99.5	109.0	112.9	141.6	223.8	290.8	373.1	539.5	633.3	652.4
115°	103.3	109.0	122.4	124.3	147.3	220.0	277.4	344.3	493.6	585.4	610.2
117.5°	114.8	116.7	135.9	137.8	155.0	220.0	269.7	327.1	455.4	541.4	564.4
120°	124.3	126.2	149.2	149.2	162.6	221.9	264.0	313.8	422.8	499.3	522.3
122.5°	132.0	133.9	160.7	160.7	172.2	221.9	260.2	306.1	399.9	464.9	484.0
125°	139.7	141.6	168.3	172.2	179.8	225.7	258.3	298.5	380.7	436.2	451.5
127.5°	147.3	149.2	170.2	179.8	189.4	227.6	258.3	292.7	363.5	415.2	428.5
130°	155.0	156.9	174.1	183.6	199.0	229.5	256.4	286.9	352.1	394.1	407.5
132.5°	162.6	164.5	177.9	185.5	204.7	233.4	256.4	283.1	340.5	378.8	390.2
135°	168.3	172.2	183.6	189.4	210.5	235.3	256.4	277.4	329.0	363.5	373.1
137.5°	176.0	179.8	189.4	193.3	212.4	239.1	256.4	275.5	319.5	350.1	359.7
140°	181.7	185.5	195.2	199.0	216.2	241.1	256.4	273.6	309.9	336.7	344.3
142.5°	189.4	193.3	200.9	204.7	218.1	243.0	256.4	271.7	302.3	323.3	331.0
145°	197.1	199.0	206.6	210.5	221.9	243.0	254.5	267.8	294.7	313.8	317.6
147.5°	204.7	206.6	214.3	216.2	227.6	243.0	252.6	265.9	286.9	304.2	308.0
150°	210.5	214.3	220.0	221.9	231.5	244.9	252.6	262.1	281.2	294.7	298.5
152.5°	218.1	220.0	223.8	227.6	235.3	244.9	250.7	260.2	275.5	285.0	288.8
155°	223.8	225.7	229.5	231.5	239.1	246.8	250.7	258.3	269.7	279.3	281.2
157.5°	229.5	231.5	235.3	237.2	241.1	248.7	250.7	258.3	267.8	273.6	275.5
160°	235.3	237.2	239.1	241.1	244.9	248.7	252.6	256.4	264.0	269.7	271.7
162.5°	241.1	241.1	243.0	244.9	248.7	250.7	252.6	256.4	262.1	265.9	267.8
165°	244.9	244.9	246.8	246.8	250.7	250.7	252.6	256.4	260.2	264.0	264.0
167.5°	248.7	248.7	250.7	250.7	252.6	252.6	252.6	256.4	258.3	262.1	262.1
170°	250.7	252.6	252.6	252.6	254.5	254.5	254.5	256.4	258.3	260.2	260.2
172.5°	254.5	254.5	254.5	254.5	256.4	254.5	254.5	256.4	258.3	258.3	258.3
175°	256.4	256.4	256.4	256.4	256.4	254.5	254.5	256.4	256.4	258.3	258.3
177.5°	256.4	256.4	256.4	256.4	258.3	254.5	254.5	256.4	256.4	258.3	258.3
180°	256.4	256.4	256.4	256.4	256.4	256.4	256.4	256.4	256.4	256.4	256.4



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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°	1.9	1.9
92.5°	9.5	9.5
95°	28.7	26.8
97.5°	95.7	84.2
100°	265.9	243.0
102.5°	453.4	436.2
105°	593.1	585.4





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	705.9	721.3
115°	673.5	690.6
117.5°	625.6	646.6
120°	583.5	602.6
122.5°	541.4	558.6
125°	503.1	520.4
127.5°	470.6	485.9
130°	443.8	457.3
132.5°	422.8	432.4
135°	401.8	411.4
137.5°	384.5	394.1
140°	367.3	375.0
142.5°	350.1	357.8
145°	334.8	340.5
147.5°	321.4	325.2
150°	308.0	311.9
152.5°	298.5	300.4
155°	288.8	288.8
157.5°	281.2	281.2
160°	273.6	275.5
162.5°	269.7	269.7
165°	265.9	265.9
167.5°	262.1	262.1
170°	260.2	260.2
172.5°	260.2	258.3
175°	258.3	256.4
177.5°	258.3	256.4
180°	256.4	256.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	70.8	78.4	86.1	93.8	128.1	244.9	338.6	445.7	616.1	673.5	679.2
110°	80.4	89.9	97.6	103.3	133.9	231.5	311.9	407.5	583.5	667.7	683.0







107.5°	684.9	681.1
110°	715.5	723.2



(END OF REPORT)