

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: P844792

Luminaire Tested: **SQ4P-025U-0D-B50-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P844792  
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-025U-0D-B50-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT  
UPLIGHT, INDIRECT ONLY  
  
Light Source: -  
Ballast/Driver: -

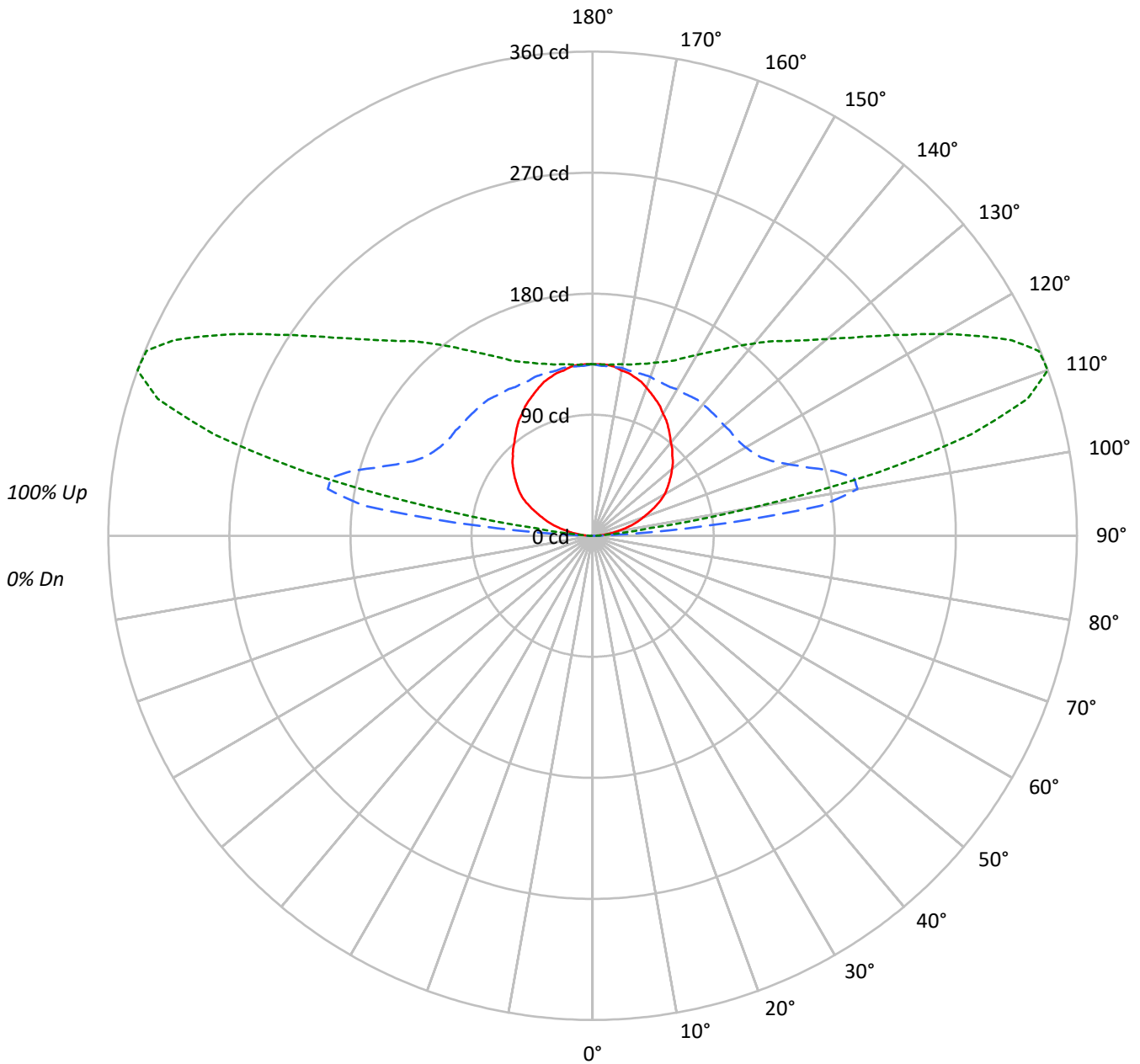
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 827.2 lumens  
Efficiency: N/A  
Efficacy: 118.2 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): 7  
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									
RC	80									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°	0.3	0.0
90°-100°	50.3	6.1
100°-110°	176.7	21.4
110°-120°	171.0	20.7
120°-130°	133.6	16.2
130°-140°	106.2	12.8
140°-150°	82.0	9.9
150°-160°	58.9	7.1
160°-170°	36.0	4.3
170°-180°	12.2	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.3	0.0
90°-120°	398.0	48.1
90°-150°	719.9	87.0
90°-180°	827.0	100.0
0°-180°	827.2	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°	2	3	3	2	1	1
95°	9	30	86	22	13	9
105°	30	42	186	313	291	31
115°	51	62	138	291	344	51
125°	70	86	128	217	259	62
135°	84	94	128	181	205	65
145°	98	105	127	156	170	61
155°	111	115	125	139	144	51
165°	122	123	126	131	132	34
175°	128	128	127	128	128	12
180°	128	128	128	128	128	



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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°	1.9	1.9	2.9	2.9	3.8	3.8	2.9	2.9	1.9	1.9	1.9
92.5°	4.8	7.6	12.4	14.3	20.0	17.1	13.3	8.6	6.7	5.7	5.7
95°	8.6	11.4	23.8	29.5	56.2	88.5	85.7	71.4	31.4	21.9	20.0
97.5°	13.3	15.2	26.7	33.3	66.6	145.7	171.4	171.4	118.1	78.1	65.7
100°	18.1	20.0	29.5	35.2	64.7	152.3	199.9	231.3	222.8	187.5	170.4
102.5°	23.8	26.7	33.3	38.1	62.8	144.7	199.0	246.6	278.1	263.7	256.1
105°	29.5	33.3	38.1	41.9	62.8	132.3	185.6	239.9	306.6	313.3	312.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	45.7	49.5	54.3	56.2	70.4	111.4	144.7	185.6	268.5	315.2	324.7
115°	51.4	54.3	60.9	61.9	73.3	109.5	138.0	171.4	245.6	291.4	303.8
117.5°	57.1	58.1	67.6	68.5	77.1	109.5	134.2	162.8	226.6	269.4	280.9
120°	61.9	62.8	74.3	74.3	80.9	110.4	131.4	156.1	210.4	248.5	259.9
122.5°	65.7	66.6	80.0	80.0	85.7	110.4	129.5	152.3	199.0	231.3	240.9
125°	69.5	70.4	83.8	85.7	89.5	112.3	128.5	148.5	189.5	217.1	224.7
127.5°	73.3	74.3	84.7	89.5	94.3	113.3	128.5	145.7	180.9	206.6	213.3
130°	77.1	78.1	86.6	91.4	99.0	114.2	127.6	142.8	175.2	196.1	202.8
132.5°	80.9	81.9	88.5	92.3	101.9	116.1	127.6	140.9	169.5	188.5	194.2
135°	83.8	85.7	91.4	94.3	104.7	117.1	127.6	138.0	163.7	180.9	185.6
137.5°	87.6	89.5	94.3	96.2	105.7	119.0	127.6	137.1	159.0	174.2	179.0
140°	90.4	92.3	97.1	99.0	107.6	120.0	127.6	136.1	154.2	167.6	171.4
142.5°	94.3	96.2	100.0	101.9	108.5	120.9	127.6	135.2	150.4	160.9	164.7
145°	98.1	99.0	102.8	104.7	110.4	120.9	126.6	133.3	146.6	156.1	158.0
147.5°	101.9	102.8	106.6	107.6	113.3	120.9	125.7	132.3	142.8	151.4	153.3
150°	104.7	106.6	109.5	110.4	115.2	121.9	125.7	130.4	139.9	146.6	148.5
152.5°	108.5	109.5	111.4	113.3	117.1	121.9	124.7	129.5	137.1	141.9	143.8
155°	111.4	112.3	114.2	115.2	119.0	122.8	124.7	128.5	134.2	139.0	139.9
157.5°	114.2	115.2	117.1	118.1	120.0	123.8	124.7	128.5	133.3	136.1	137.1
160°	117.1	118.1	119.0	120.0	121.9	123.8	125.7	127.6	131.4	134.2	135.2
162.5°	120.0	120.0	120.9	121.9	123.8	124.7	125.7	127.6	130.4	132.3	133.3
165°	121.9	121.9	122.8	122.8	124.7	124.7	125.7	127.6	129.5	131.4	131.4
167.5°	123.8	123.8	124.7	124.7	125.7	125.7	125.7	127.6	128.5	130.4	130.4
170°	124.7	125.7	125.7	125.7	126.6	126.6	126.6	127.6	128.5	129.5	129.5
172.5°	126.6	126.6	126.6	126.6	127.6	126.6	126.6	127.6	128.5	128.5	128.5
175°	127.6	127.6	127.6	127.6	127.6	126.6	126.6	127.6	127.6	128.5	128.5
177.5°	127.6	127.6	127.6	127.6	128.5	126.6	126.6	127.6	127.6	128.5	128.5
180°	127.6	127.6	127.6	127.6	127.6	127.6	127.6	127.6	127.6	127.6	127.6



TEST NUMBER: P844792

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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°	1.0	1.0
92.5°	4.8	4.8
95°	14.3	13.3
97.5°	47.6	41.9
100°	132.3	120.9
102.5°	225.6	217.1
105°	295.2	291.4





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	351.4	359.0
115°	335.2	343.8
117.5°	311.4	321.9
120°	290.5	300.0
122.5°	269.4	278.1
125°	250.4	259.0
127.5°	234.2	241.8
130°	220.9	227.5
132.5°	210.4	215.2
135°	199.9	204.7
137.5°	191.4	196.1
140°	182.8	186.6
142.5°	174.2	178.0
145°	166.6	169.5
147.5°	159.9	161.8
150°	153.3	155.2
152.5°	148.5	149.5
155°	143.8	143.8
157.5°	139.9	139.9
160°	136.1	137.1
162.5°	134.2	134.2
165°	132.3	132.3
167.5°	130.4	130.4
170°	129.5	129.5
172.5°	129.5	128.5
175°	128.5	127.6
177.5°	128.5	127.6
180°	127.6	127.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	35.2	39.0	42.8	46.6	63.8	121.9	168.5	221.8	306.6	335.2	338.1
110°	40.0	44.7	48.6	51.4	66.6	115.2	155.2	202.8	290.5	332.4	340.0







107.5°	340.9	339.0
110°	356.2	360.0



(END OF REPORT)