

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: P844794

Luminaire Tested: **SQ4P-050U-0D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844794
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-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT
UPLIGHT, INDIRECT ONLY

Light Source: -
Ballast/Driver: -

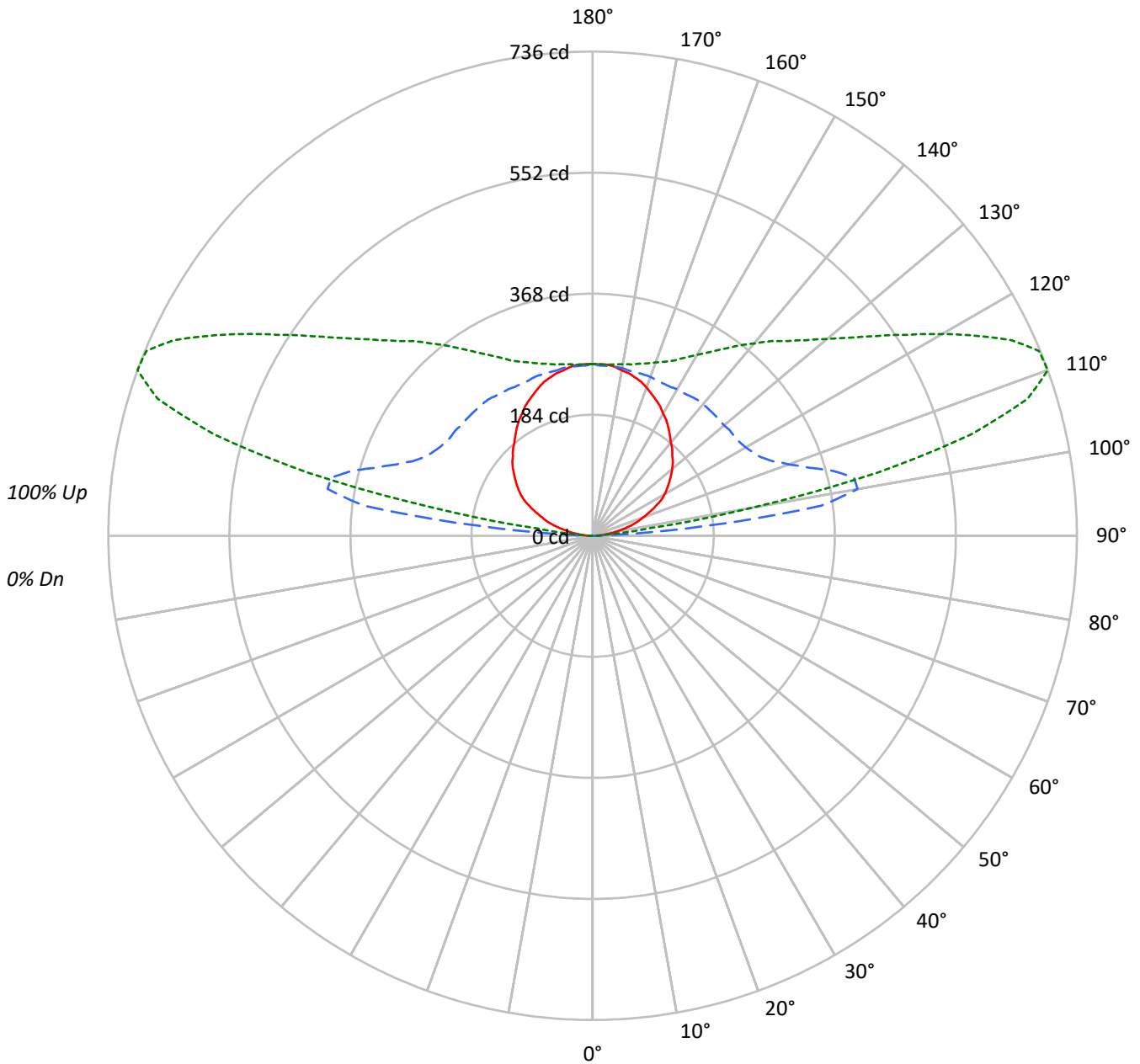
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1692.0 lumens
Efficiency: N/A
Efficacy: 130.2 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): 13
Input Voltage (V): NR
Input Current (A_{in}): 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°	0.7	0.0
90°-100°	102.9	6.1
100°-110°	361.3	21.4
110°-120°	349.7	20.7
120°-130°	273.3	16.2
130°-140°	217.3	12.8
140°-150°	167.8	9.9
150°-160°	120.5	7.1
160°-170°	73.6	4.3
170°-180°	24.9	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.7	0.0
90°-120°	813.9	48.1
90°-150°	1472.4	87.0
90°-180°	1691.0	99.9
0°-180°	1692.0	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°	18	60	175	45	27	19
105°	60	86	380	641	596	63
115°	105	127	282	596	703	104
125°	142	175	263	444	530	127
135°	171	193	261	370	419	133
145°	201	214	259	319	347	125
155°	228	236	255	284	294	105
165°	249	251	257	269	271	70
175°	261	261	259	263	261	25
180°	261	261	261	261	261	



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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°	3.9	3.9	5.8	5.8	7.8	7.8	5.8	5.8	3.9	3.9	3.9
92.5°	9.7	15.6	25.3	29.2	40.9	35.1	27.2	17.5	13.7	11.7	11.7
95°	17.5	23.4	48.6	60.4	114.9	181.1	175.3	146.0	64.2	44.8	40.9
97.5°	27.2	31.2	54.6	68.1	136.3	298.0	350.5	350.5	241.5	159.7	134.4
100°	37.0	40.9	60.4	72.1	132.4	311.6	408.9	473.2	455.7	383.7	348.6
102.5°	48.6	54.6	68.1	77.9	128.5	296.0	407.0	504.4	568.6	539.4	523.9
105°	60.4	68.1	77.9	85.7	128.5	270.7	379.8	490.7	627.1	640.6	638.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	93.5	101.3	111.0	114.9	144.1	227.8	296.0	379.8	549.2	644.6	664.1
115°	105.1	111.0	124.6	126.6	149.9	224.0	282.4	350.5	502.5	595.9	621.2
117.5°	116.9	118.8	138.3	140.2	157.8	224.0	274.5	333.0	463.5	551.1	574.5
120°	126.6	128.5	151.9	151.9	165.5	225.9	268.7	319.4	430.4	508.3	531.6
122.5°	134.4	136.3	163.6	163.6	175.3	225.9	264.8	311.6	407.0	473.2	492.7
125°	142.2	144.1	171.3	175.3	183.1	229.8	262.9	303.8	387.5	444.0	459.6
127.5°	149.9	151.9	173.3	183.1	192.7	231.7	262.9	298.0	370.0	422.6	436.2
130°	157.8	159.7	177.2	186.9	202.5	233.6	261.0	292.1	358.4	401.2	414.8
132.5°	165.5	167.5	181.1	188.9	208.3	237.6	261.0	288.2	346.6	385.6	397.2
135°	171.3	175.3	186.9	192.7	214.3	239.6	261.0	282.4	334.9	370.0	379.8
137.5°	179.2	183.1	192.7	196.7	216.2	243.4	261.0	280.4	325.2	356.3	366.1
140°	185.0	188.9	198.7	202.5	220.1	245.4	261.0	278.5	315.4	342.8	350.5
142.5°	192.7	196.7	204.5	208.3	222.0	247.3	261.0	276.6	307.7	329.1	336.9
145°	200.6	202.5	210.3	214.3	225.9	247.3	259.0	272.6	299.9	319.4	323.3
147.5°	208.3	210.3	218.1	220.1	231.7	247.3	257.1	270.7	292.1	309.6	313.5
150°	214.3	218.1	224.0	225.9	235.7	249.2	257.1	266.8	286.3	299.9	303.8
152.5°	222.0	224.0	227.8	231.7	239.6	249.2	255.2	264.8	280.4	290.1	294.0
155°	227.8	229.8	233.6	235.7	243.4	251.2	255.2	262.9	274.5	284.3	286.3
157.5°	233.6	235.7	239.6	241.5	245.4	253.1	255.2	262.9	272.6	278.5	280.4
160°	239.6	241.5	243.4	245.4	249.2	253.1	257.1	261.0	268.7	274.5	276.6
162.5°	245.4	245.4	247.3	249.2	253.1	255.2	257.1	261.0	266.8	270.7	272.6
165°	249.2	249.2	251.2	251.2	255.2	255.2	257.1	261.0	264.8	268.7	268.7
167.5°	253.1	253.1	255.2	255.2	257.1	257.1	257.1	261.0	262.9	266.8	266.8
170°	255.2	257.1	257.1	257.1	259.0	259.0	259.0	261.0	262.9	264.8	264.8
172.5°	259.0	259.0	259.0	259.0	261.0	259.0	259.0	261.0	262.9	262.9	262.9
175°	261.0	261.0	261.0	261.0	261.0	259.0	259.0	261.0	261.0	262.9	262.9
177.5°	261.0	261.0	261.0	261.0	262.9	259.0	259.0	261.0	261.0	262.9	262.9
180°	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0



TEST NUMBER: P844794

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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°	9.7	9.7
95°	29.2	27.2
97.5°	97.4	85.7
100°	270.7	247.3
102.5°	461.6	444.0
105°	603.7	595.9



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	718.6	734.2
115°	685.5	703.0
117.5°	636.8	658.2
120°	593.9	613.4
122.5°	551.1	568.6
125°	512.1	529.7
127.5°	479.0	494.6
130°	451.8	465.4
132.5°	430.4	440.1
135°	408.9	418.7
137.5°	391.4	401.2
140°	373.9	381.7
142.5°	356.3	364.2
145°	340.8	346.6
147.5°	327.2	331.0
150°	313.5	317.5
152.5°	303.8	305.7
155°	294.0	294.0
157.5°	286.3	286.3
160°	278.5	280.4
162.5°	274.5	274.5
165°	270.7	270.7
167.5°	266.8	266.8
170°	264.8	264.8
172.5°	264.8	262.9
175°	262.9	261.0
177.5°	262.9	261.0
180°	261.0	261.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	72.1	79.9	87.6	95.5	130.4	249.2	344.7	453.7	627.1	685.5	691.3
110°	81.8	91.5	99.3	105.1	136.3	235.7	317.5	414.8	593.9	679.6	695.2





107.5°	697.1	693.3
110°	728.3	736.1



(END OF REPORT)