

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: P844793

Luminaire Tested: **SQ4P-050U-0D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844793
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-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT
UPLIGHT, INDIRECT ONLY

Light Source: -
Ballast/Driver: -

Summary

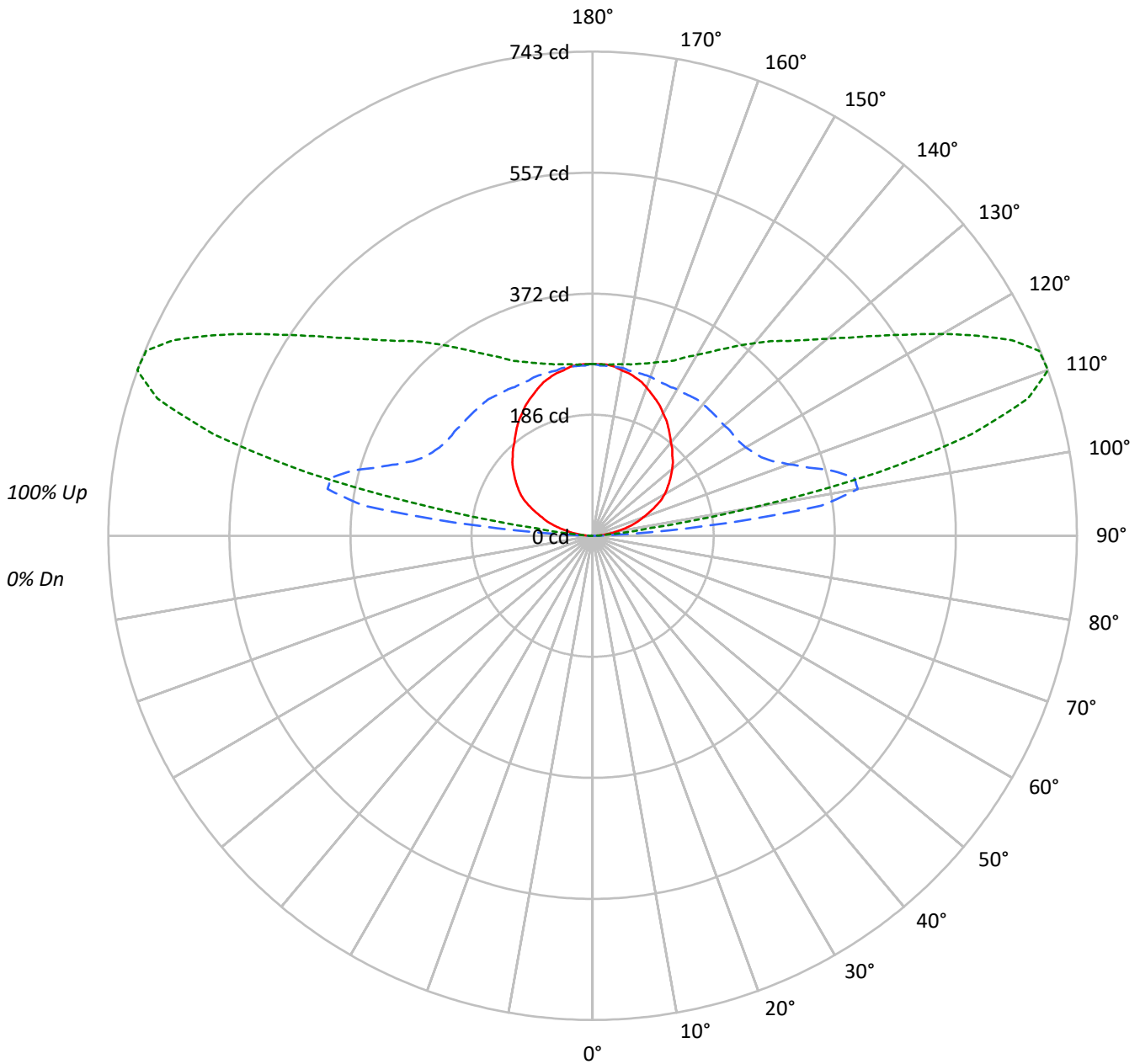
Lumens per Lamp: N/A
Luminaire Lumens: 1708.6 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 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				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°	0.7	0.0
90°-100°	103.9	6.1
100°-110°	364.9	21.4
110°-120°	353.1	20.7
120°-130°	276.0	16.2
130°-140°	219.4	12.8
140°-150°	169.5	9.9
150°-160°	121.6	7.1
160°-170°	74.3	4.3
170°-180°	25.2	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°	821.9	48.1
90°-150°	1486.8	87.0
90°-180°	1708.0	100.0
0°-180°	1708.6	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	61	177	45	28	19
105°	61	86	384	647	602	64
115°	106	128	285	602	710	105
125°	144	177	266	448	535	129
135°	173	195	264	374	423	134
145°	203	216	262	322	350	127
155°	230	238	258	287	297	106
165°	252	254	260	271	273	71
175°	264	264	262	266	264	25
180°	264	264	264	264	264	



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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	5.9	5.9	7.8	7.8	5.9	5.9	3.9	3.9	3.9
92.5°	9.8	15.8	25.5	29.5	41.3	35.4	27.5	17.7	13.8	11.8	11.8
95°	17.7	23.6	49.1	61.0	116.1	182.9	177.0	147.5	64.9	45.2	41.3
97.5°	27.5	31.5	55.1	68.8	137.7	300.9	353.9	353.9	243.9	161.3	135.7
100°	37.4	41.3	61.0	72.8	133.7	314.6	413.0	477.8	460.1	387.4	352.0
102.5°	49.1	55.1	68.8	78.7	129.8	299.0	411.0	509.3	574.2	544.7	529.0
105°	61.0	68.8	78.7	86.5	129.8	273.3	383.5	495.5	633.2	646.9	645.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	94.4	102.3	112.0	116.1	145.5	230.1	299.0	383.5	554.6	650.9	670.6
115°	106.2	112.0	125.8	127.8	151.4	226.1	285.2	353.9	507.4	601.7	627.3
117.5°	118.0	120.0	139.6	141.6	159.3	226.1	277.2	336.2	468.0	556.5	580.1
120°	127.8	129.8	153.3	153.3	167.1	228.1	271.4	322.5	434.6	513.3	536.8
122.5°	135.7	137.7	165.2	165.2	177.0	228.1	267.4	314.6	411.0	477.8	497.5
125°	143.6	145.5	173.0	177.0	184.9	232.0	265.5	306.8	391.3	448.4	464.1
127.5°	151.4	153.3	175.0	184.9	194.6	234.0	265.5	300.9	373.6	426.8	440.5
130°	159.3	161.3	179.0	188.8	204.5	235.9	263.5	294.9	361.9	405.1	418.8
132.5°	167.1	169.1	182.9	190.7	210.4	239.9	263.5	291.0	350.0	389.4	401.1
135°	173.0	177.0	188.8	194.6	216.4	241.9	263.5	285.2	338.2	373.6	383.5
137.5°	180.9	184.9	194.6	198.6	218.3	245.8	263.5	283.2	328.4	359.8	369.7
140°	186.8	190.7	200.6	204.5	222.2	247.8	263.5	281.2	318.5	346.1	353.9
142.5°	194.6	198.6	206.5	210.4	224.2	249.7	263.5	279.3	310.7	332.3	340.2
145°	202.6	204.5	212.3	216.4	228.1	249.7	261.6	275.3	302.9	322.5	326.4
147.5°	210.4	212.3	220.3	222.2	234.0	249.7	259.6	273.3	294.9	312.7	316.6
150°	216.4	220.3	226.1	228.1	238.0	251.7	259.6	269.4	289.1	302.9	306.8
152.5°	224.2	226.1	230.1	234.0	241.9	251.7	257.7	267.4	283.2	293.0	296.9
155°	230.1	232.0	235.9	238.0	245.8	253.6	257.7	265.5	277.2	287.1	289.1
157.5°	235.9	238.0	241.9	243.9	247.8	255.6	257.7	265.5	275.3	281.2	283.2
160°	241.9	243.9	245.8	247.8	251.7	255.6	259.6	263.5	271.4	277.2	279.3
162.5°	247.8	247.8	249.7	251.7	255.6	257.7	259.6	263.5	269.4	273.3	275.3
165°	251.7	251.7	253.6	253.6	257.7	257.7	259.6	263.5	267.4	271.4	271.4
167.5°	255.6	255.6	257.7	257.7	259.6	259.6	259.6	263.5	265.5	269.4	269.4
170°	257.7	259.6	259.6	259.6	261.6	261.6	261.6	263.5	265.5	267.4	267.4
172.5°	261.6	261.6	261.6	261.6	263.5	261.6	261.6	263.5	265.5	265.5	265.5
175°	263.5	263.5	263.5	263.5	263.5	261.6	261.6	263.5	263.5	265.5	265.5
177.5°	263.5	263.5	263.5	263.5	265.5	261.6	261.6	263.5	263.5	265.5	265.5
180°	263.5	263.5	263.5	263.5	263.5	263.5	263.5	263.5	263.5	263.5	263.5



TEST NUMBER: P844793

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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°	2.0	2.0
92.5°	9.8	9.8
95°	29.5	27.5
97.5°	98.3	86.5
100°	273.3	249.7
102.5°	466.1	448.4
105°	609.6	601.7



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	725.6	741.4
115°	692.2	709.9
117.5°	643.0	664.6
120°	599.8	619.4
122.5°	556.5	574.2
125°	517.2	534.9
127.5°	483.7	499.5
130°	456.2	470.0
132.5°	434.6	444.5
135°	413.0	422.8
137.5°	395.2	405.1
140°	377.5	385.5
142.5°	359.8	367.7
145°	344.2	350.0
147.5°	330.4	334.3
150°	316.6	320.6
152.5°	306.8	308.7
155°	296.9	296.9
157.5°	289.1	289.1
160°	281.2	283.2
162.5°	277.2	277.2
165°	273.3	273.3
167.5°	269.4	269.4
170°	267.4	267.4
172.5°	267.4	265.5
175°	265.5	263.5
177.5°	265.5	263.5
180°	263.5	263.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	72.8	80.6	88.5	96.4	131.7	251.7	348.1	458.2	633.2	692.2	698.1
110°	82.6	92.4	100.3	106.2	137.7	238.0	320.6	418.8	599.8	686.3	702.0





107.5°	704.0	700.1
110°	735.5	743.3



(END OF REPORT)