

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: P844798

Luminaire Tested: **SQ4P-075U-0D-B50-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844798
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-075U-0D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT
UPLIGHT, INDIRECT ONLY

Light Source: -
Ballast/Driver: -

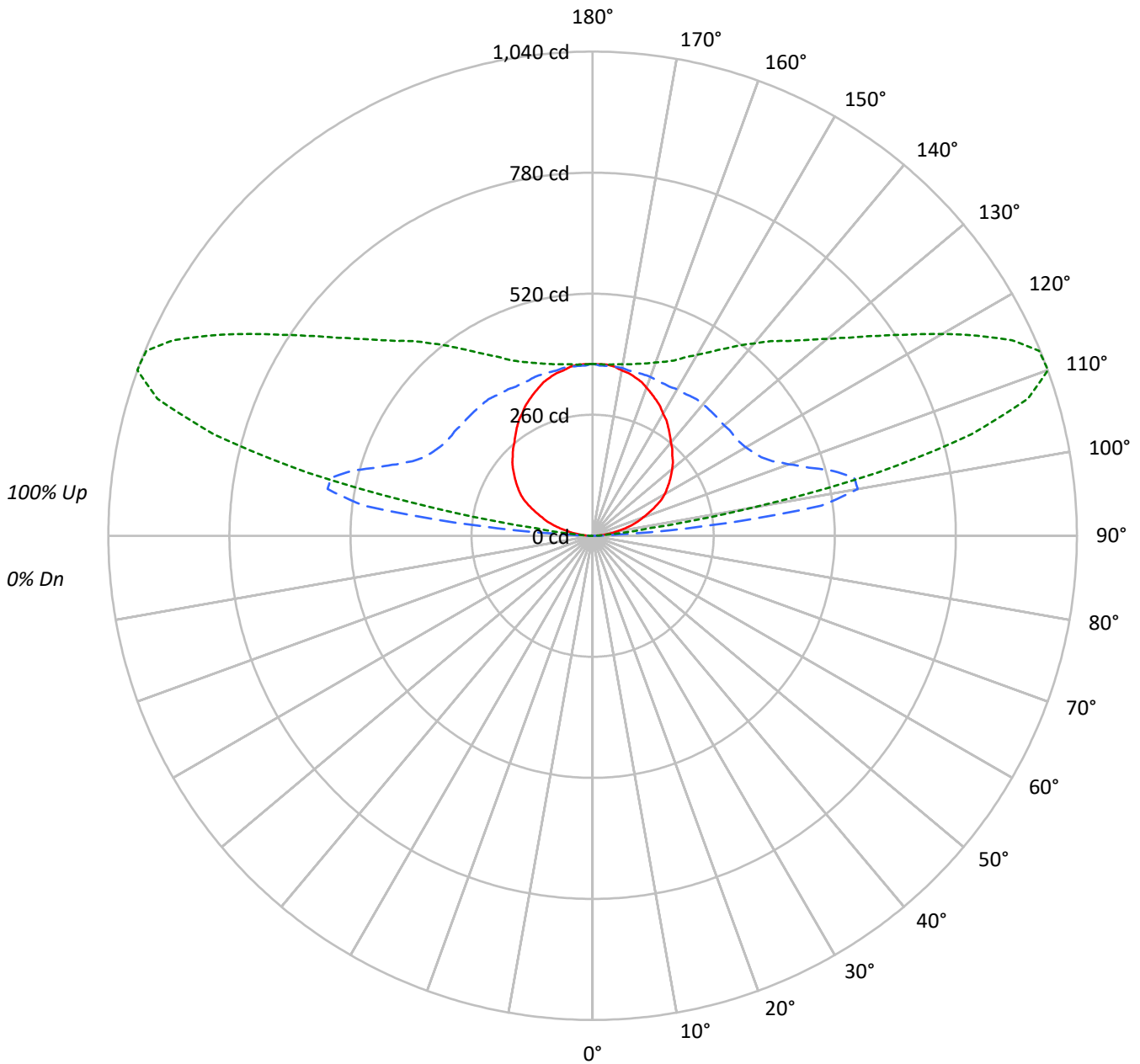
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2391.5 lumens
Efficiency: N/A
Efficacy: 125.9 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): 19
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°	0.9	0.0
90°-100°	145.4	6.1
100°-110°	510.7	21.4
110°-120°	494.3	20.7
120°-130°	386.3	16.2
130°-140°	307.1	12.8
140°-150°	237.2	9.9
150°-160°	170.2	7.1
160°-170°	104.0	4.3
170°-180°	35.2	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.9	0.0
90°-120°	1150.4	48.1
90°-150°	2081.1	87.0
90°-180°	2391.0	100.0
0°-180°	2391.5	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°	6	8	8	6	3	3
95°	25	85	248	63	39	26
105°	85	121	537	906	842	90
115°	149	179	399	842	994	147
125°	201	248	372	628	749	180
135°	242	272	369	523	592	188
145°	284	303	366	452	490	177
155°	322	333	360	402	416	148
165°	352	355	363	380	383	99
175°	369	369	366	372	369	35
180°	369	369	369	369	369	



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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°	5.5	5.5	8.3	8.3	11.0	11.0	8.3	8.3	5.5	5.5	5.5
92.5°	13.8	22.0	35.8	41.3	57.8	49.5	38.6	24.8	19.2	16.5	16.5
95°	24.8	33.0	68.8	85.3	162.4	256.0	247.7	206.4	90.8	63.3	57.8
97.5°	38.6	44.1	77.1	96.3	192.7	421.1	495.4	495.4	341.3	225.7	189.9
100°	52.3	57.8	85.3	101.9	187.2	440.4	578.0	668.9	644.0	542.3	492.7
102.5°	68.8	77.1	96.3	110.1	181.6	418.4	575.3	712.9	803.7	762.5	740.4
105°	85.3	96.3	110.1	121.1	181.6	382.6	536.8	693.6	886.3	905.6	902.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	132.1	143.1	156.9	162.4	203.6	322.1	418.4	536.8	776.2	911.1	938.6
115°	148.6	156.9	176.1	178.9	211.9	316.5	399.1	495.4	710.1	842.3	878.1
117.5°	165.2	167.9	195.5	198.2	223.0	316.5	388.1	470.7	655.1	778.9	812.0
120°	178.9	181.6	214.7	214.7	233.9	319.3	379.9	451.5	608.2	718.4	751.4
122.5°	189.9	192.7	231.2	231.2	247.7	319.3	374.3	440.4	575.3	668.9	696.4
125°	201.0	203.6	242.2	247.7	258.8	324.8	371.6	429.4	547.7	627.6	649.6
127.5°	211.9	214.7	245.0	258.8	272.5	327.5	371.6	421.1	522.9	597.3	616.5
130°	223.0	225.7	250.5	264.3	286.3	330.3	368.8	412.9	506.5	567.0	586.3
132.5°	233.9	236.7	256.0	266.9	294.6	335.8	368.8	407.4	489.9	545.0	561.5
135°	242.2	247.7	264.3	272.5	302.7	338.5	368.8	399.1	473.4	522.9	536.8
137.5°	253.2	258.8	272.5	278.0	305.5	344.1	368.8	396.3	459.6	503.7	517.4
140°	261.5	266.9	280.8	286.3	311.0	346.8	368.8	393.6	445.9	484.4	495.4
142.5°	272.5	278.0	289.0	294.6	313.8	349.6	368.8	390.8	434.9	465.2	476.2
145°	283.5	286.3	297.2	302.7	319.3	349.6	366.1	385.4	423.8	451.5	456.9
147.5°	294.6	297.2	308.3	311.0	327.5	349.6	363.3	382.6	412.9	437.6	443.2
150°	302.7	308.3	316.5	319.3	333.0	352.3	363.3	377.1	404.6	423.8	429.4
152.5°	313.8	316.5	322.1	327.5	338.5	352.3	360.5	374.3	396.3	410.1	415.7
155°	322.1	324.8	330.3	333.0	344.1	355.1	360.5	371.6	388.1	401.8	404.6
157.5°	330.3	333.0	338.5	341.3	346.8	357.9	360.5	371.6	385.4	393.6	396.3
160°	338.5	341.3	344.1	346.8	352.3	357.9	363.3	368.8	379.9	388.1	390.8
162.5°	346.8	346.8	349.6	352.3	357.9	360.5	363.3	368.8	377.1	382.6	385.4
165°	352.3	352.3	355.1	355.1	360.5	360.5	363.3	368.8	374.3	379.9	379.9
167.5°	357.9	357.9	360.5	360.5	363.3	363.3	363.3	368.8	371.6	377.1	377.1
170°	360.5	363.3	363.3	363.3	366.1	366.1	366.1	368.8	371.6	374.3	374.3
172.5°	366.1	366.1	366.1	366.1	368.8	366.1	366.1	368.8	371.6	371.6	371.6
175°	368.8	368.8	368.8	368.8	368.8	366.1	366.1	368.8	368.8	371.6	371.6
177.5°	368.8	368.8	368.8	368.8	371.6	366.1	366.1	368.8	368.8	371.6	371.6
180°	368.8	368.8	368.8	368.8	368.8	368.8	368.8	368.8	368.8	368.8	368.8



TEST NUMBER: P844798

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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°	2.8	2.8
92.5°	13.8	13.8
95°	41.3	38.6
97.5°	137.7	121.1
100°	382.6	349.6
102.5°	652.3	627.6
105°	853.3	842.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1015.6	1037.7
115°	968.9	993.6
117.5°	900.0	930.3
120°	839.5	867.0
122.5°	778.9	803.7
125°	723.9	748.7
127.5°	677.1	699.2
130°	638.6	657.8
132.5°	608.2	622.1
135°	578.0	591.8
137.5°	553.2	567.0
140°	528.5	539.5
142.5°	503.7	514.7
145°	481.7	489.9
147.5°	462.4	467.9
150°	443.2	448.7
152.5°	429.4	432.1
155°	415.7	415.7
157.5°	404.6	404.6
160°	393.6	396.3
162.5°	388.1	388.1
165°	382.6	382.6
167.5°	377.1	377.1
170°	374.3	374.3
172.5°	374.3	371.6
175°	371.6	368.8
177.5°	371.6	368.8
180°	368.8	368.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	101.9	112.8	123.9	134.9	184.4	352.3	487.2	641.3	886.3	968.9	977.2
110°	115.6	129.4	140.3	148.6	192.7	333.0	448.7	586.3	839.5	960.6	982.6





107.5°	985.3	979.9
110°	1029.4	1040.5



(END OF REPORT)