

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: P844807

Luminaire Tested: **SQ4P-150U-0D-B50-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844807
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-150U-0D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, INDIRECT ONLY

Light Source: -
Ballast/Driver: -

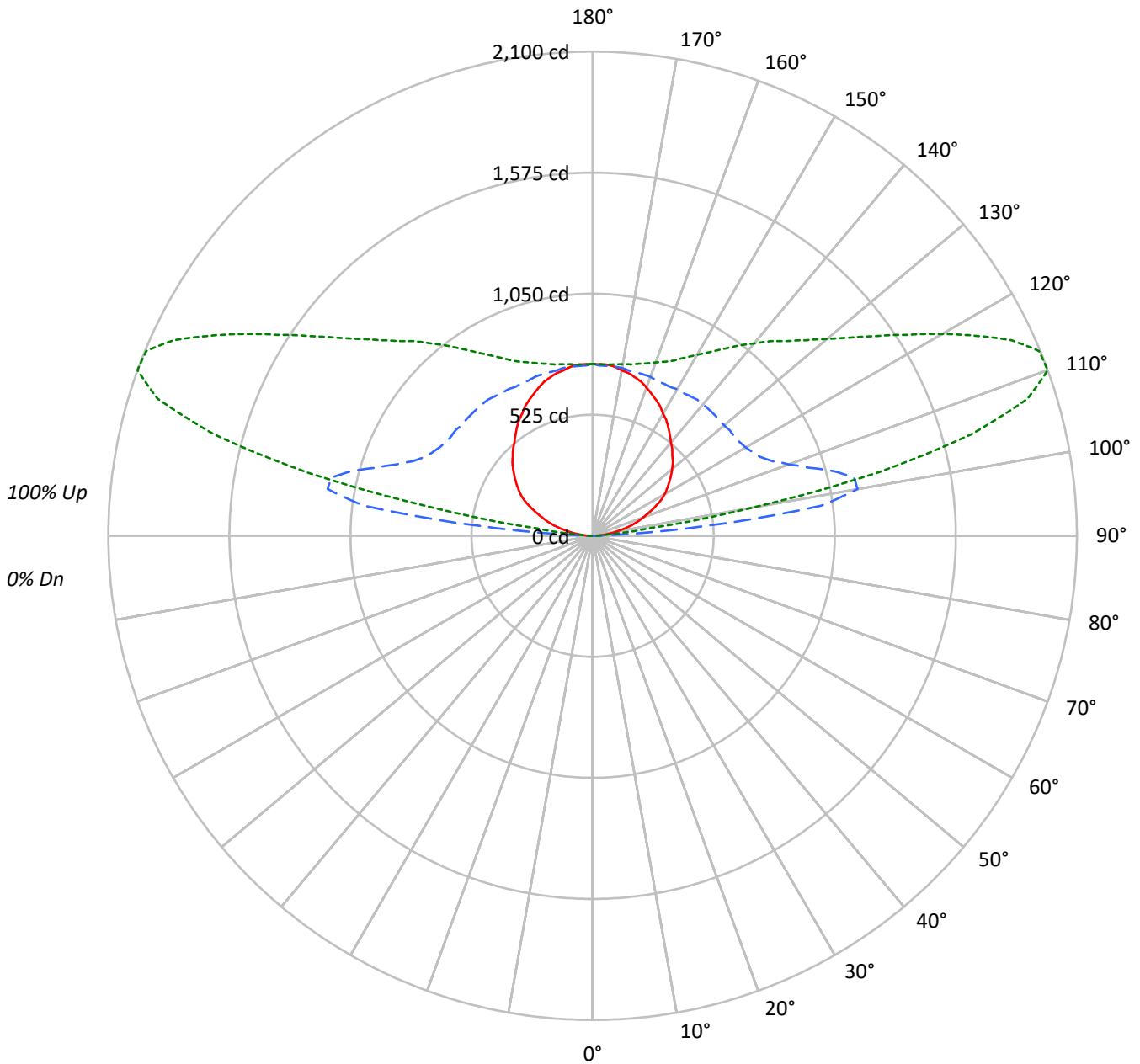
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4827.7 lumens
Efficiency: N/A
Efficacy: 112.3 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): 43
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	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°	1.9	0.0
90°-100°	293.5	6.1
100°-110°	1030.9	21.4
110°-120°	997.9	20.7
120°-130°	779.9	16.2
130°-140°	620.0	12.8
140°-150°	478.8	9.9
150°-160°	343.7	7.1
160°-170°	210.0	4.3
170°-180°	71.1	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.9	0.0
90°-120°	2322.3	48.1
90°-150°	4201.1	87.0
90°-180°	4826.0	100.0
0°-180°	4827.7	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°	11	17	17	11	6	7
95°	50	172	500	128	78	53
105°	172	244	1084	1828	1700	181
115°	300	361	806	1700	2006	296
125°	406	500	750	1267	1511	363
135°	489	550	745	1056	1195	379
145°	572	611	739	911	989	358
155°	650	672	728	811	839	300
165°	711	717	733	767	772	201
175°	745	745	739	750	745	71
180°	745	745	745	745	745	



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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°	11.1	11.1	16.7	16.7	22.2	22.2	16.7	16.7	11.1	11.1	11.1
92.5°	27.8	44.5	72.3	83.3	116.7	100.1	77.8	50.0	38.9	33.3	33.3
95°	50.0	66.6	138.9	172.2	327.9	516.8	500.1	416.7	183.4	127.8	116.7
97.5°	77.8	88.9	155.6	194.5	389.0	850.2	1000.2	1000.2	689.0	455.6	383.4
100°	105.6	116.7	172.2	205.5	377.9	889.0	1166.9	1350.3	1300.2	1094.6	994.6
102.5°	138.9	155.6	194.5	222.3	366.7	844.5	1161.3	1439.1	1622.4	1539.1	1494.7
105°	172.2	194.5	222.3	244.5	366.7	772.4	1083.5	1400.2	1789.1	1828.1	1822.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	266.7	288.9	316.7	327.9	411.2	650.1	844.5	1083.5	1566.9	1839.2	1894.7
115°	300.1	316.7	355.6	361.2	427.8	639.0	805.7	1000.2	1433.6	1700.3	1772.5
117.5°	333.4	338.9	394.5	400.0	450.1	639.0	783.4	950.1	1322.5	1572.5	1639.2
120°	361.2	366.7	433.4	433.4	472.3	644.5	766.8	911.3	1228.0	1450.2	1516.9
122.5°	383.4	389.0	466.8	466.8	500.1	644.5	755.7	889.0	1161.3	1350.3	1405.8
125°	405.7	411.2	489.0	500.1	522.3	655.7	750.1	866.8	1105.8	1266.9	1311.3
127.5°	427.8	433.4	494.5	522.3	550.1	661.2	750.1	850.2	1055.7	1205.7	1244.7
130°	450.1	455.6	505.6	533.4	577.9	666.8	744.6	833.5	1022.4	1144.6	1183.6
132.5°	472.3	477.8	516.8	538.9	594.5	677.8	744.6	822.4	989.1	1100.2	1133.5
135°	489.0	500.1	533.4	550.1	611.2	683.5	744.6	805.7	955.7	1055.7	1083.5
137.5°	511.2	522.3	550.1	561.2	616.7	694.6	744.6	800.1	927.9	1016.9	1044.7
140°	527.9	538.9	566.7	577.9	627.9	700.1	744.6	794.6	900.1	977.9	1000.2
142.5°	550.1	561.2	583.4	594.5	633.5	705.6	744.6	789.0	878.0	939.1	961.3
145°	572.4	577.9	600.1	611.2	644.5	705.6	739.0	777.9	855.7	911.3	922.3
147.5°	594.5	600.1	622.3	627.9	661.2	705.6	733.4	772.4	833.5	883.5	894.6
150°	611.2	622.3	639.0	644.5	672.3	711.3	733.4	761.2	816.8	855.7	866.8
152.5°	633.5	639.0	650.1	661.2	683.5	711.3	727.9	755.7	800.1	827.9	839.0
155°	650.1	655.7	666.8	672.3	694.6	716.8	727.9	750.1	783.4	811.2	816.8
157.5°	666.8	672.3	683.5	689.0	700.1	722.3	727.9	750.1	777.9	794.6	800.1
160°	683.5	689.0	694.6	700.1	711.3	722.3	733.4	744.6	766.8	783.4	789.0
162.5°	700.1	700.1	705.6	711.3	722.3	727.9	733.4	744.6	761.2	772.4	777.9
165°	711.3	711.3	716.8	716.8	727.9	727.9	733.4	744.6	755.7	766.8	766.8
167.5°	722.3	722.3	727.9	727.9	733.4	733.4	733.4	744.6	750.1	761.2	761.2
170°	727.9	733.4	733.4	733.4	739.0	739.0	739.0	744.6	750.1	755.7	755.7
172.5°	739.0	739.0	739.0	739.0	744.6	739.0	739.0	744.6	750.1	750.1	750.1
175°	744.6	744.6	744.6	744.6	744.6	739.0	739.0	744.6	744.6	750.1	750.1
177.5°	744.6	744.6	744.6	744.6	750.1	739.0	739.0	744.6	744.6	750.1	750.1
180°	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6



TEST NUMBER: P844807

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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°	5.5	5.5
92.5°	27.8	27.8
95°	83.3	77.8
97.5°	277.8	244.5
100°	772.4	705.6
102.5°	1316.8	1266.9
105°	1722.5	1700.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	2050.3	2094.7
115°	1955.8	2005.9
117.5°	1816.9	1878.1
120°	1694.7	1750.3
122.5°	1572.5	1622.4
125°	1461.4	1511.3
127.5°	1366.9	1411.4
130°	1289.1	1328.0
132.5°	1228.0	1255.7
135°	1166.9	1194.6
137.5°	1116.8	1144.6
140°	1066.8	1089.0
142.5°	1016.9	1039.0
145°	972.4	989.1
147.5°	933.5	944.6
150°	894.6	905.7
152.5°	866.8	872.3
155°	839.0	839.0
157.5°	816.8	816.8
160°	794.6	800.1
162.5°	783.4	783.4
165°	772.4	772.4
167.5°	761.2	761.2
170°	755.7	755.7
172.5°	755.7	750.1
175°	750.1	744.6
177.5°	750.1	744.6
180°	744.6	744.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	205.5	227.8	250.0	272.3	372.2	711.3	983.5	1294.7	1789.1	1955.8	1972.5
110°	233.3	261.1	283.4	300.1	389.0	672.3	905.7	1183.6	1694.7	1939.2	1983.6





107.5°	1989.2	1978.1
110°	2078.1	2100.4



(END OF REPORT)