

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: P844806

Luminaire Tested: **SQ4P-150U-0D-B40-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P844806  
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-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT  
UPLIGHT, INDIRECT ONLY  
  
Light Source: -  
Ballast/Driver: -

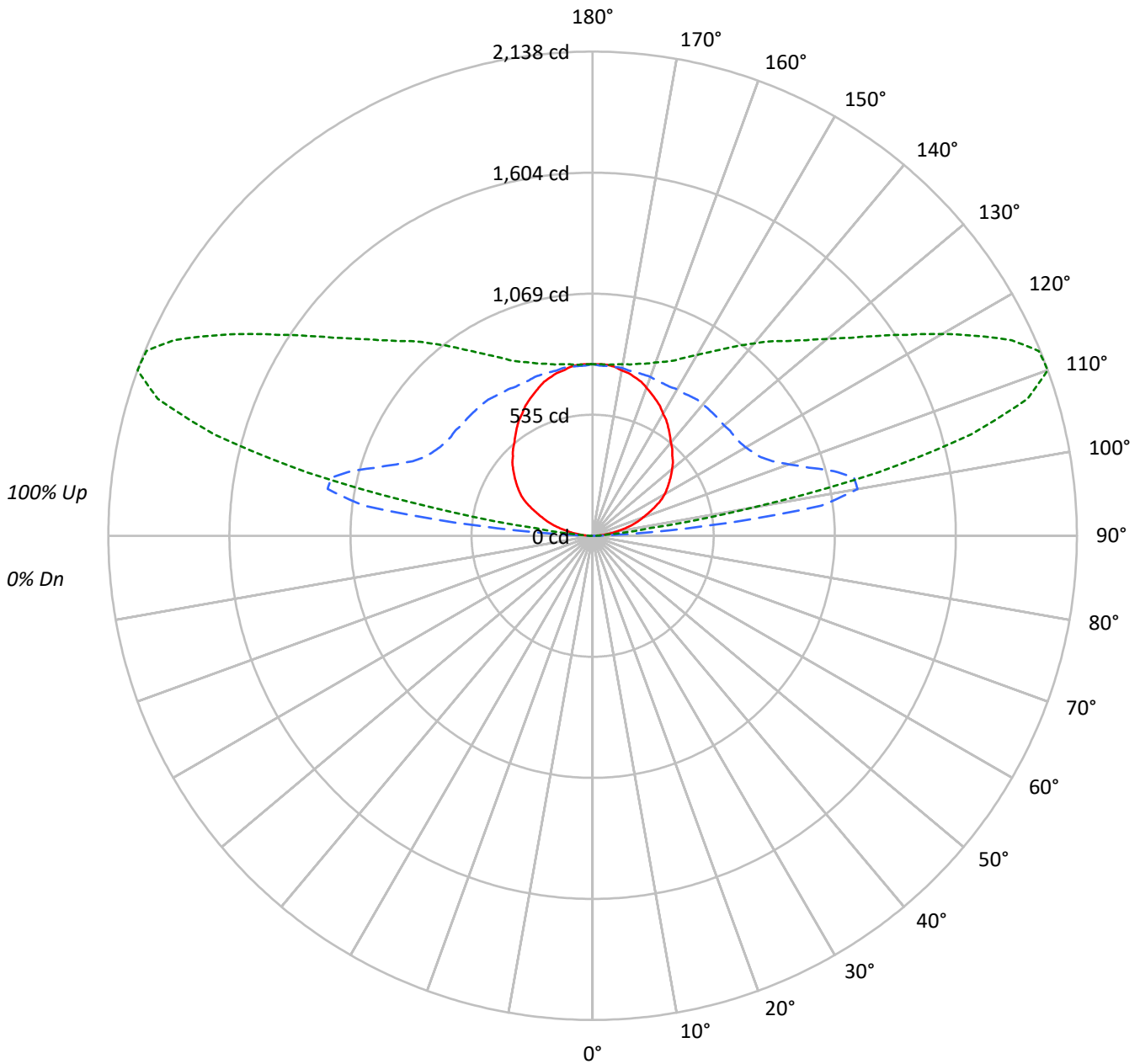
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4914.1 lumens  
Efficiency: N/A  
Efficacy: 114.3 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<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				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°	298.8	6.1
100°-110°	1049.4	21.4
110°-120°	1015.7	20.7
120°-130°	793.9	16.2
130°-140°	631.1	12.8
140°-150°	487.4	9.9
150°-160°	349.8	7.1
160°-170°	213.7	4.3
170°-180°	72.4	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°	2363.9	48.1
90°-150°	4276.3	87.0
90°-180°	4912.0	100.0
0°-180°	4914.1	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°	51	175	509	130	79	54
105°	175	249	1103	1861	1731	184
115°	305	368	820	1731	2042	302
125°	413	509	764	1290	1538	370
135°	498	560	758	1075	1216	386
145°	583	622	752	928	1007	364
155°	662	684	741	826	854	305
165°	724	730	747	780	786	204
175°	758	758	752	764	758	72
180°	758	758	758	758	758	



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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°	11.3	11.3	17.0	17.0	22.6	22.6	17.0	17.0	11.3	11.3	11.3
92.5°	28.3	45.3	73.6	84.8	118.8	101.8	79.2	50.9	39.6	33.9	33.9
95°	50.9	67.8	141.4	175.3	333.7	526.0	509.0	424.2	186.6	130.0	118.8
97.5°	79.2	90.5	158.3	198.0	396.0	865.4	1018.1	1018.1	701.3	463.8	390.2
100°	107.5	118.8	175.3	209.2	384.6	904.9	1187.8	1374.4	1323.4	1114.2	1012.4
102.5°	141.4	158.3	198.0	226.3	373.3	859.7	1182.1	1464.8	1651.5	1566.7	1521.4
105°	175.3	198.0	226.3	248.9	373.3	786.2	1102.9	1425.3	1821.2	1860.8	1855.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	271.4	294.1	322.4	333.7	418.5	661.8	859.7	1102.9	1595.0	1872.1	1928.6
115°	305.4	322.4	361.9	367.7	435.5	650.4	820.1	1018.1	1459.2	1730.7	1804.2
117.5°	339.4	345.0	401.6	407.2	458.2	650.4	797.4	967.1	1346.1	1600.6	1668.5
120°	367.7	373.3	441.1	441.1	480.8	656.1	780.5	927.6	1250.0	1476.2	1544.0
122.5°	390.2	396.0	475.1	475.1	509.0	656.1	769.2	904.9	1182.1	1374.4	1430.9
125°	412.9	418.5	497.7	509.0	531.6	667.4	763.5	882.3	1125.6	1289.5	1334.8
127.5°	435.5	441.1	503.3	531.6	559.9	673.0	763.5	865.4	1074.6	1227.3	1267.0
130°	458.2	463.8	514.7	543.0	588.2	678.7	757.9	848.4	1040.7	1165.1	1204.7
132.5°	480.8	486.4	526.0	548.6	605.2	690.0	757.9	837.1	1006.8	1119.8	1153.8
135°	497.7	509.0	543.0	559.9	622.1	695.7	757.9	820.1	972.8	1074.6	1102.9
137.5°	520.4	531.6	559.9	571.3	627.8	707.0	757.9	814.4	944.5	1035.1	1063.4
140°	537.3	548.6	576.9	588.2	639.1	712.6	757.9	808.8	916.2	995.4	1018.1
142.5°	559.9	571.3	593.8	605.2	644.8	718.3	757.9	803.2	893.7	955.9	978.5
145°	582.6	588.2	610.8	622.1	656.1	718.3	752.2	791.8	871.0	927.6	938.8
147.5°	605.2	610.8	633.5	639.1	673.0	718.3	746.6	786.2	848.4	899.3	910.6
150°	622.1	633.5	650.4	656.1	684.4	724.0	746.6	774.9	831.5	871.0	882.3
152.5°	644.8	650.4	661.8	673.0	695.7	724.0	740.9	769.2	814.4	842.7	854.0
155°	661.8	667.4	678.7	684.4	707.0	729.6	740.9	763.5	797.4	825.7	831.5
157.5°	678.7	684.4	695.7	701.3	712.6	735.2	740.9	763.5	791.8	808.8	814.4
160°	695.7	701.3	707.0	712.6	724.0	735.2	746.6	757.9	780.5	797.4	803.2
162.5°	712.6	712.6	718.3	724.0	735.2	740.9	746.6	757.9	774.9	786.2	791.8
165°	724.0	724.0	729.6	729.6	740.9	740.9	746.6	757.9	769.2	780.5	780.5
167.5°	735.2	735.2	740.9	740.9	746.6	746.6	746.6	757.9	763.5	774.9	774.9
170°	740.9	746.6	746.6	746.6	752.2	752.2	752.2	757.9	763.5	769.2	769.2
172.5°	752.2	752.2	752.2	752.2	757.9	752.2	752.2	757.9	763.5	763.5	763.5
175°	757.9	757.9	757.9	757.9	757.9	752.2	752.2	757.9	757.9	763.5	763.5
177.5°	757.9	757.9	757.9	757.9	763.5	752.2	752.2	757.9	757.9	763.5	763.5
180°	757.9	757.9	757.9	757.9	757.9	757.9	757.9	757.9	757.9	757.9	757.9



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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°	5.6	5.6
92.5°	28.3	28.3
95°	84.8	79.2
97.5°	282.8	248.9
100°	786.2	718.3
102.5°	1340.4	1289.5
105°	1753.3	1730.7





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	2087.0	2132.2
115°	1990.8	2041.8
117.5°	1849.5	1911.7
120°	1725.0	1781.6
122.5°	1600.6	1651.5
125°	1487.5	1538.4
127.5°	1391.4	1436.6
130°	1312.2	1351.7
132.5°	1250.0	1278.2
135°	1187.8	1216.0
137.5°	1136.8	1165.1
140°	1085.9	1108.5
142.5°	1035.1	1057.6
145°	989.8	1006.8
147.5°	950.2	961.5
150°	910.6	921.9
152.5°	882.3	888.0
155°	854.0	854.0
157.5°	831.5	831.5
160°	808.8	814.4
162.5°	797.4	797.4
165°	786.2	786.2
167.5°	774.9	774.9
170°	769.2	769.2
172.5°	769.2	763.5
175°	763.5	757.9
177.5°	763.5	757.9
180°	757.9	757.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	209.2	231.9	254.5	277.2	378.9	724.0	1001.1	1317.8	1821.2	1990.8	2007.8
110°	237.5	265.8	288.5	305.4	396.0	684.4	921.9	1204.7	1725.0	1973.9	2019.1







107.5°	2024.8	2013.5
110°	2115.3	2137.9



(END OF REPORT)