

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: P844805

Luminaire Tested: **SQ4P-150U-0D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844805
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-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, INDIRECT ONLY

Light Source: -
Ballast/Driver: -

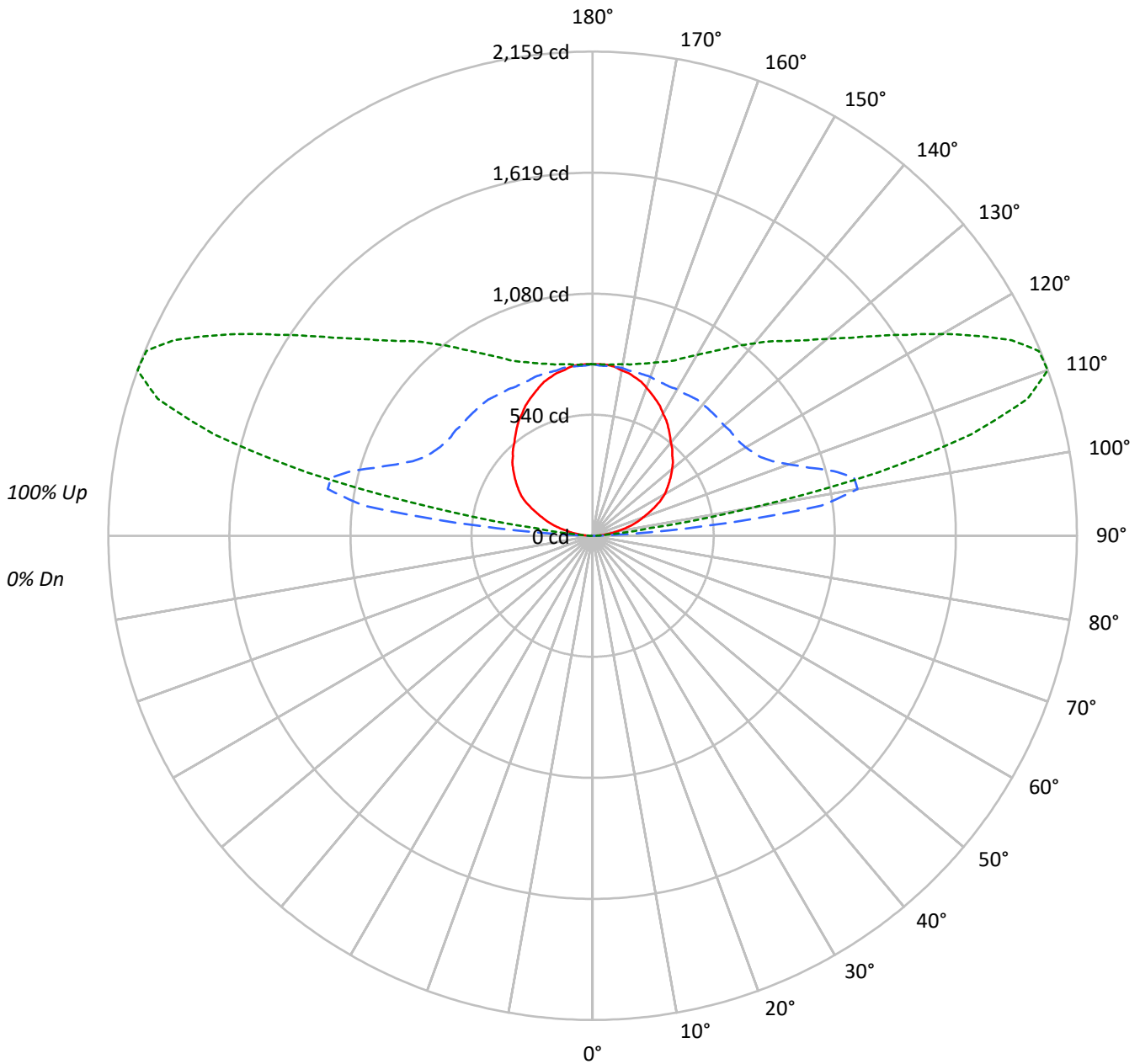
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4962.3 lumens
Efficiency: N/A
Efficacy: 115.4 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): 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°	301.7	6.1
100°-110°	1059.7	21.4
110°-120°	1025.7	20.7
120°-130°	801.7	16.2
130°-140°	637.3	12.8
140°-150°	492.2	9.9
150°-160°	353.3	7.1
160°-170°	215.8	4.3
170°-180°	73.1	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°	2387.1	48.1
90°-150°	4318.2	87.0
90°-180°	4960.0	100.0
0°-180°	4962.3	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	177	514	131	80	54
105°	177	251	1114	1879	1748	186
115°	308	371	828	1748	2062	305
125°	417	514	771	1302	1554	373
135°	503	565	765	1085	1228	390
145°	588	628	760	937	1017	368
155°	668	691	748	834	862	308
165°	731	737	754	788	794	206
175°	765	765	760	771	765	72
180°	765	765	765	765	765	



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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°	11.4	11.4	17.1	17.1	22.8	22.8	17.1	17.1	11.4	11.4	11.4
92.5°	28.6	45.7	74.3	85.6	120.0	102.8	79.9	51.4	40.0	34.2	34.2
95°	51.4	68.5	142.8	177.0	337.0	531.2	514.0	428.3	188.5	131.3	120.0
97.5°	79.9	91.4	159.9	199.9	399.8	873.9	1028.1	1028.1	708.2	468.3	394.1
100°	108.5	120.0	177.0	211.3	388.4	913.8	1199.4	1387.9	1336.4	1125.2	1022.3
102.5°	142.8	159.9	199.9	228.5	376.9	868.1	1193.7	1479.2	1667.7	1582.0	1536.3
105°	177.0	199.9	228.5	251.3	376.9	793.9	1113.7	1439.3	1839.0	1879.0	1873.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	274.1	297.0	325.6	337.0	422.6	668.3	868.1	1113.7	1610.6	1890.5	1947.5
115°	308.4	325.6	365.5	371.3	439.8	656.8	828.2	1028.1	1473.5	1747.7	1821.9
117.5°	342.7	348.4	405.5	411.2	462.7	656.8	805.3	976.6	1359.3	1616.3	1684.9
120°	371.3	376.9	445.4	445.4	485.5	662.5	788.1	936.7	1262.3	1490.6	1559.1
122.5°	394.1	399.8	479.8	479.8	514.0	662.5	776.8	913.8	1193.7	1387.9	1445.0
125°	417.0	422.6	502.6	514.0	536.8	673.9	771.0	891.0	1136.6	1302.2	1347.9
127.5°	439.8	445.4	508.3	536.8	565.4	679.6	771.0	873.9	1085.1	1239.4	1279.4
130°	462.7	468.3	519.7	548.3	594.0	685.4	765.3	856.7	1050.9	1176.5	1216.6
132.5°	485.5	491.1	531.2	554.0	611.1	696.7	765.3	845.3	1016.6	1130.8	1165.1
135°	502.6	514.0	548.3	565.4	628.2	702.5	765.3	828.2	982.4	1085.1	1113.7
137.5°	525.5	536.8	565.4	576.9	633.9	714.0	765.3	822.4	953.8	1045.2	1073.8
140°	542.6	554.0	582.5	594.0	645.4	719.6	765.3	816.7	925.2	1005.2	1028.1
142.5°	565.4	576.9	599.7	611.1	651.1	725.3	765.3	811.0	902.4	965.3	988.1
145°	588.3	594.0	616.8	628.2	662.5	725.3	759.6	799.6	879.5	936.7	948.0
147.5°	611.1	616.8	639.7	645.4	679.6	725.3	753.9	793.9	856.7	908.1	919.6
150°	628.2	639.7	656.8	662.5	691.1	731.1	753.9	782.5	839.6	879.5	891.0
152.5°	651.1	656.8	668.3	679.6	702.5	731.1	748.2	776.8	822.4	851.0	862.4
155°	668.3	673.9	685.4	691.1	714.0	736.8	748.2	771.0	805.3	833.8	839.6
157.5°	685.4	691.1	702.5	708.2	719.6	742.4	748.2	771.0	799.6	816.7	822.4
160°	702.5	708.2	714.0	719.6	731.1	742.4	753.9	765.3	788.1	805.3	811.0
162.5°	719.6	719.6	725.3	731.1	742.4	748.2	753.9	765.3	782.5	793.9	799.6
165°	731.1	731.1	736.8	736.8	748.2	748.2	753.9	765.3	776.8	788.1	788.1
167.5°	742.4	742.4	748.2	748.2	753.9	753.9	753.9	765.3	771.0	782.5	782.5
170°	748.2	753.9	753.9	753.9	759.6	759.6	759.6	765.3	771.0	776.8	776.8
172.5°	759.6	759.6	759.6	759.6	765.3	759.6	759.6	765.3	771.0	771.0	771.0
175°	765.3	765.3	765.3	765.3	765.3	759.6	759.6	765.3	765.3	771.0	771.0
177.5°	765.3	765.3	765.3	765.3	771.0	759.6	759.6	765.3	765.3	771.0	771.0
180°	765.3	765.3	765.3	765.3	765.3	765.3	765.3	765.3	765.3	765.3	765.3



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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°	5.7	5.7
92.5°	28.6	28.6
95°	85.6	79.9
97.5°	285.5	251.3
100°	793.9	725.3
102.5°	1353.6	1302.2
105°	1770.5	1747.7



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	2107.4	2153.1
115°	2010.4	2061.8
117.5°	1867.6	1930.4
120°	1741.9	1799.1
122.5°	1616.3	1667.7
125°	1502.1	1553.5
127.5°	1405.0	1450.7
130°	1325.1	1365.0
132.5°	1262.3	1290.7
135°	1199.4	1227.9
137.5°	1148.0	1176.5
140°	1096.6	1119.4
142.5°	1045.2	1068.0
145°	999.5	1016.6
147.5°	959.5	970.9
150°	919.6	930.9
152.5°	891.0	896.7
155°	862.4	862.4
157.5°	839.6	839.6
160°	816.7	822.4
162.5°	805.3	805.3
165°	793.9	793.9
167.5°	782.5	782.5
170°	776.8	776.8
172.5°	776.8	771.0
175°	771.0	765.3
177.5°	771.0	765.3
180°	765.3	765.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	211.3	234.2	257.0	279.9	382.6	731.1	1011.0	1330.8	1839.0	2010.4	2027.5
110°	239.8	268.4	291.3	308.4	399.8	691.1	930.9	1216.6	1741.9	1993.2	2038.9





107.5°	2044.6	2033.3
110°	2136.0	2158.9



(END OF REPORT)