

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: P845210

Luminaire Tested: **SQ4P-PR1-125U-100D-B35-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845210  
REPORT IS A COMBINATION OF REPORTS P700121 AND P700247  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PR1-125U-100D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT  
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

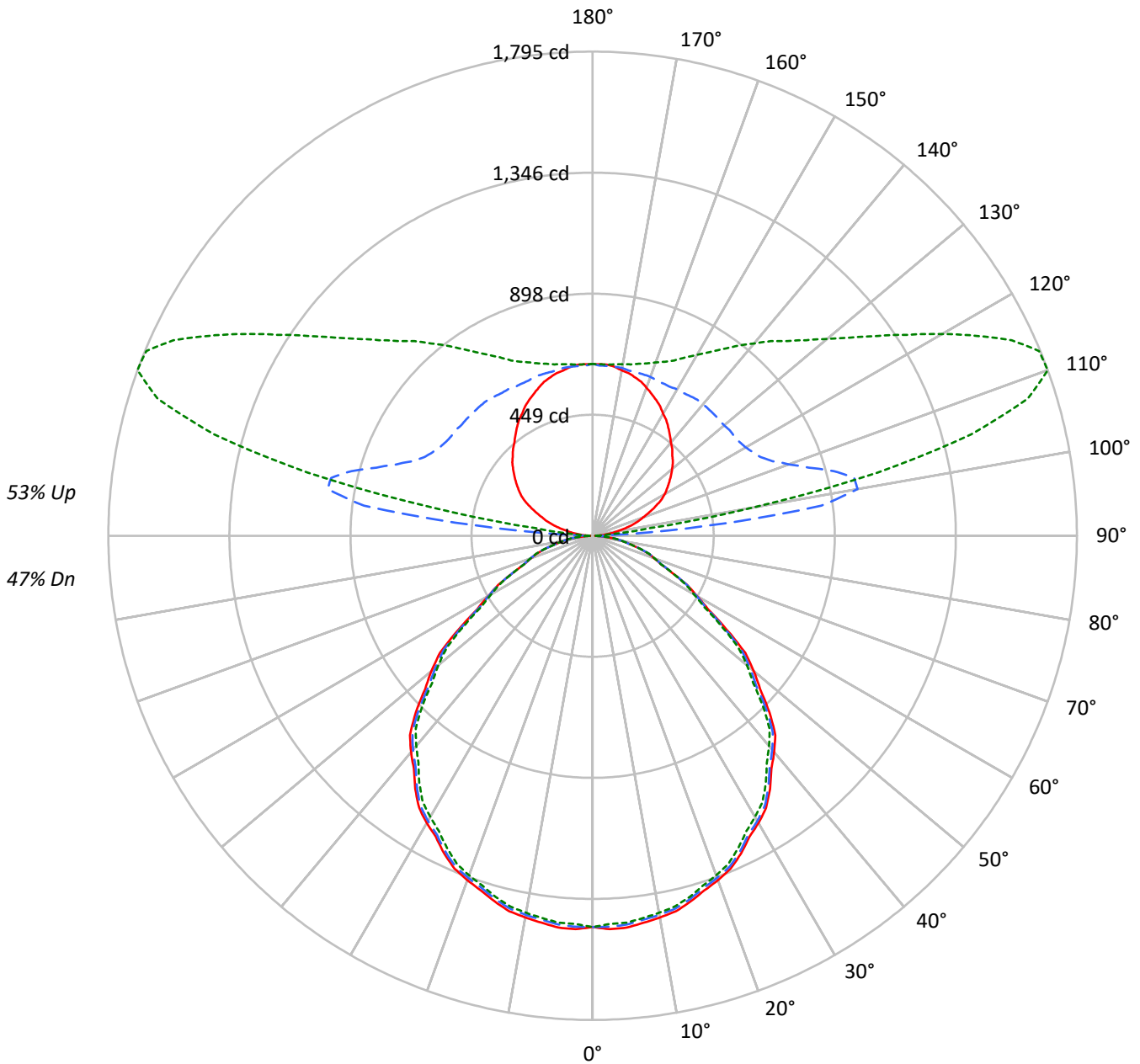
Lumens per Lamp: N/A  
Luminaire Lumens: 7758.5 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 68.9  
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				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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47	47	47	47
1	97	93	89	86	89	86	82	80	72	70	67	59	58	56	47	46	45	40	40	40	40
2	89	82	76	71	81	75	70	66	63	60	56	52	50	47	42	40	39	34	34	34	34
3	81	72	65	59	74	66	60	55	56	51	48	46	43	40	37	35	33	29	29	29	29
4	74	64	56	50	68	59	52	47	50	45	41	41	38	35	34	31	29	25	25	25	25
5	68	57	49	43	63	53	46	40	45	39	35	37	33	30	30	27	25	22	22	22	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19	19	19	19
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20	17	17	17	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15	15	15	15
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	21	18	16	14	14	14	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13	13	13	13

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13384	13384	13384
5°	13505	13401	13332
10°	13461	13368	13298
15°	13404	13320	13247
20°	13335	13249	13152
25°	13241	13154	13000
30°	13098	13007	12819
35°	12906	12792	12610
40°	12610	12475	12249
45°	12099	11884	11641
50°	11191	10922	10706
55°	9767	9548	9347
60°	8230	8163	8001
65°	7119	7147	7091
70°	6536	6571	6571
75°	6277	6277	6327
80°	5908	5972	5908
85°	4764	5293	5293



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.2	1.8
10°-20°	392.5	5.1
20°-30°	592.0	7.6
30°-40°	705.4	9.1
40°-50°	695.4	9.0
50°-60°	531.5	6.9
60°-70°	328.9	4.2
70°-80°	186.8	2.4
80°-90°	58.4	0.8
90°-100°	253.3	3.3
100°-110°	881.3	11.4
110°-120°	853.7	11.0
120°-130°	669.7	8.6
130°-140°	530.1	6.8
140°-150°	409.1	5.3
150°-160°	293.2	3.8
160°-170°	179.4	2.3
170°-180°	60.7	0.8
0°-30°	1121.7	14.5
0°-40°	1827.1	23.5
0°-60°	3054.0	39.4
0°-90°	3628.1	46.8
90°-120°	1988.3	25.6
90°-150°	3597.1	46.4
90°-180°	4130.0	53.2
0°-180°	7758.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1458	1442	1447	1442	1440	138
15°	1403	1389	1394	1390	1387	396
25°	1301	1285	1292	1278	1277	599
35°	1146	1132	1136	1121	1120	715
45°	927	915	911	894	892	710
55°	607	598	594	584	581	544
65°	326	324	327	325	325	330
75°	176	176	176	178	178	186
85°	45	47	50	50	50	52
90°	10	14	14	10	5	8
95°	43	147	427	109	66	45
105°	147	209	926	1563	1453	155
115°	256	309	689	1453	1714	253
125°	347	427	641	1083	1292	310
135°	418	470	636	902	1021	324
145°	489	522	632	779	845	306
155°	556	575	622	693	717	256
165°	608	613	627	655	660	171
175°	636	636	632	641	636	60
180°	636	636	636	636	636	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1450.6	1450.6	1450.6	1450.6	1450.6
2.5°	1459.7	1447.0	1450.6	1447.6	1440.7
5°	1458.2	1442.2	1447.0	1441.8	1439.5
7.5°	1447.0	1431.3	1436.0	1430.9	1429.6
10°	1436.8	1422.2	1426.9	1422.0	1419.4
12.5°	1425.9	1410.4	1416.0	1409.9	1407.6
15°	1403.3	1388.6	1394.5	1389.5	1386.9
17.5°	1378.3	1362.6	1368.6	1362.8	1359.5
20°	1358.2	1343.6	1349.4	1340.8	1339.5
22.5°	1336.2	1321.7	1327.4	1315.8	1315.6
25°	1300.7	1284.8	1292.1	1278.3	1277.0
27.5°	1258.5	1243.9	1249.7	1235.7	1234.4
30°	1229.5	1214.8	1220.9	1205.8	1203.3
32.5°	1196.5	1182.9	1187.9	1172.8	1171.2
35°	1145.9	1132.3	1135.7	1120.8	1119.6
37.5°	1088.2	1075.8	1077.8	1061.3	1060.2
40°	1047.0	1034.9	1035.8	1018.4	1017.0
42.5°	1002.2	989.9	988.8	971.4	970.2
45°	927.3	915.0	910.8	894.5	892.2
47.5°	841.8	829.4	821.9	808.6	806.8
50°	779.7	767.4	760.9	749.6	745.9
52.5°	712.7	700.5	695.1	684.7	681.1
55°	607.2	597.5	593.6	583.5	581.1
57.5°	507.0	500.5	499.3	489.6	488.5
60°	446.0	442.4	442.4	433.6	433.6
62.5°	394.2	391.3	393.3	387.5	386.6
65°	326.1	323.7	327.4	324.8	324.8
67.5°	272.4	272.4	274.6	273.5	273.5
70°	242.3	242.3	243.6	243.6	243.6
72.5°	215.4	214.5	217.7	217.5	216.7
75°	176.1	176.1	176.1	177.5	177.5
77.5°	137.2	137.4	138.5	138.3	137.2
80°	111.2	112.4	112.4	111.2	111.2
82.5°	85.3	86.4	86.4	86.1	85.3
85°	45.0	47.4	50.0	50.0	50.0
87.5°	12.9	16.8	20.1	20.1	19.0
90°	9.5	14.3	14.3	9.5	4.8
92.5°	23.8	71.2	66.4	28.5	23.8
95°	42.8	147.3	427.4	109.2	66.4
97.5°	66.4	166.3	854.9	389.5	209.0
100°	90.2	175.8	997.4	935.6	603.2
102.5°	118.7	189.9	992.7	1315.6	1082.9
105°	147.3	209.0	926.1	1562.6	1453.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	228.0	280.3	721.9	1572.1	1790.6
115°	256.5	308.7	688.7	1453.4	1714.5
117.5°	285.0	342.0	669.6	1344.2	1605.3
120°	308.7	370.5	655.4	1239.6	1496.1
122.5°	327.7	399.0	646.0	1154.1	1386.8
125°	346.7	427.4	641.2	1082.9	1291.9
127.5°	365.7	446.4	641.2	1030.6	1206.4
130°	384.7	455.9	636.5	978.4	1135.1
132.5°	403.8	460.7	636.5	940.4	1073.4
135°	417.9	470.2	636.5	902.4	1021.1
137.5°	436.9	479.7	636.5	869.2	978.4
140°	451.2	494.0	636.5	835.9	930.9
142.5°	470.2	508.2	636.5	802.6	888.1
145°	489.2	522.5	631.7	778.9	845.4
147.5°	508.2	536.6	627.0	755.2	807.4
150°	522.5	550.9	627.0	731.4	774.1
152.5°	541.4	565.2	622.2	707.7	745.7
155°	555.7	574.7	622.2	693.4	717.2
157.5°	569.9	588.9	622.2	679.2	698.2
160°	584.2	598.4	627.0	669.6	683.9
162.5°	598.4	608.0	627.0	660.1	669.6
165°	608.0	612.7	627.0	655.4	660.1
167.5°	617.5	622.2	627.0	650.6	650.6
170°	622.2	627.0	631.7	646.0	646.0
172.5°	631.7	631.7	631.7	641.2	641.2
175°	636.5	636.5	631.7	641.2	636.5
177.5°	636.5	636.5	631.7	641.2	636.5
180°	636.5	636.5	636.5	636.5	636.5



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	175.8	232.7	840.7	1671.8	1690.9
110°	199.4	256.5	774.1	1657.6	1795.3



(END OF REPORT)