

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: P845114

Luminaire Tested: **SQ4P-PP3-100U-100D-B35-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845114  
REPORT IS A COMBINATION OF REPORTS P700089 AND P700246  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PP3-100U-100D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT  
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

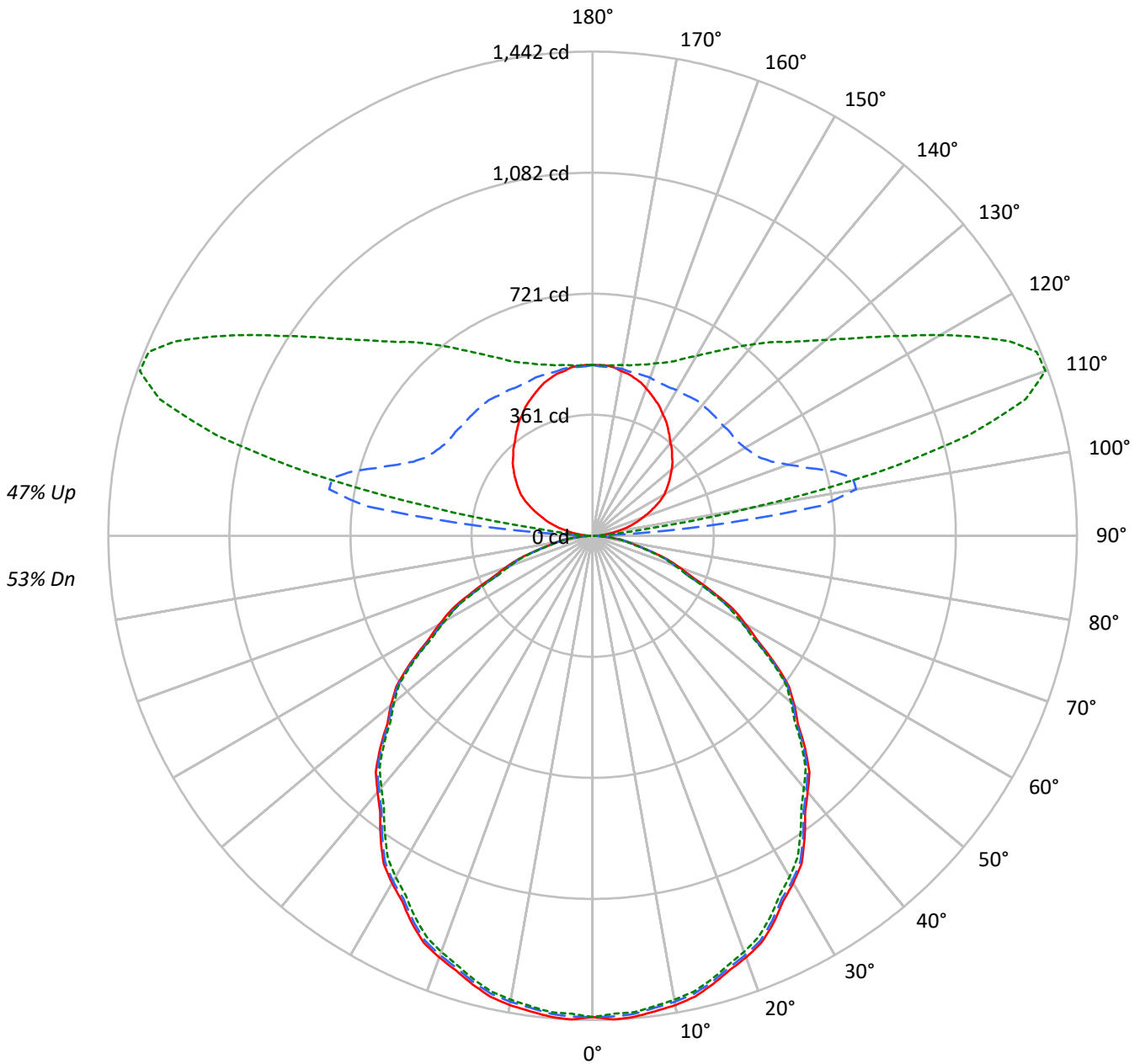
Lumens per Lamp: N/A  
Luminaire Lumens: 6969.7 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 60.9  
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					
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53								
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45								
2	90	83	77	71	83	77	71	67	66	62	58	55	53	50	46	44	42	38								
3	82	73	65	60	76	68	61	56	58	53	49	49	46	43	41	38	36	32								
4	75	64	57	51	69	60	53	48	52	46	42	44	40	37	37	34	31	28								
5	69	57	49	43	64	54	46	41	46	41	36	39	35	32	33	30	27	24								
6	64	52	43	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21								
7	59	47	39	33	54	44	36	31	38	32	28	32	28	25	27	24	21	19								
8	55	42	35	29	51	40	33	28	35	29	25	30	25	22	25	22	19	17								
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15								
10	48	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14								

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

	0°	45°	90°
0°	13221	13221	13221
5°	13318	13236	13190
10°	13296	13202	13144
15°	13208	13136	13063
20°	13119	13046	12947
25°	12964	12876	12748
30°	12725	12658	12497
35°	12392	12307	12151
40°	11995	11919	11784
45°	11669	11586	11470
50°	11247	11176	11068
55°	10666	10526	10446
60°	9710	9433	9387
65°	8556	8198	8169
70°	7383	7081	7081
75°	6359	6267	6174
80°	5605	5674	5531
85°	4383	4785	4785



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.5	1.9
10°-20°	386.9	5.6
20°-30°	579.5	8.3
30°-40°	679.8	9.8
40°-50°	681.8	9.8
50°-60°	581.7	8.3
60°-70°	379.4	5.4
70°-80°	190.3	2.7
80°-90°	53.9	0.8
90°-100°	202.4	2.9
100°-110°	704.3	10.1
110°-120°	682.2	9.8
120°-130°	535.2	7.7
130°-140°	423.6	6.1
140°-150°	326.9	4.7
150°-160°	234.3	3.4
160°-170°	143.3	2.1
170°-180°	48.5	0.7
0°-30°	1102.0	15.8
0°-40°	1781.7	25.6
0°-60°	3045.3	43.7
0°-90°	3668.9	52.6
90°-120°	1588.9	22.8
90°-150°	2874.6	41.2
90°-180°	3301.0	47.4
0°-180°	6969.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1438	1425	1429	1424	1424	137
15°	1383	1369	1375	1370	1368	390
25°	1274	1259	1265	1253	1252	586
35°	1100	1089	1093	1080	1079	687
45°	894	888	888	879	879	689
55°	663	661	654	650	649	589
65°	392	385	376	373	374	391
75°	178	178	176	175	173	193
85°	41	45	45	45	45	49
90°	8	11	11	8	4	6
95°	34	118	342	87	53	36
105°	118	167	740	1249	1162	124
115°	205	247	550	1162	1370	202
125°	277	342	512	865	1032	248
135°	334	376	509	721	816	259
145°	391	418	505	622	676	245
155°	444	459	497	554	573	205
165°	486	490	501	524	528	137
175°	509	509	505	512	509	48
180°	509	509	509	509	509	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1433.0	1433.0	1433.0	1433.0	1433.0
2.5°	1441.9	1430.3	1433.0	1430.9	1425.1
5°	1438.0	1424.6	1429.2	1424.2	1424.2
7.5°	1428.3	1413.5	1418.1	1413.1	1413.0
10°	1419.2	1404.4	1409.2	1404.0	1403.0
12.5°	1406.2	1391.5	1397.1	1391.0	1390.8
15°	1382.8	1369.2	1375.3	1370.1	1367.6
17.5°	1356.4	1341.7	1348.9	1341.9	1340.8
20°	1336.2	1321.6	1328.7	1318.7	1318.7
22.5°	1312.3	1297.5	1305.7	1292.5	1292.5
25°	1273.5	1258.7	1264.8	1253.3	1252.3
27.5°	1227.5	1213.0	1219.3	1206.4	1206.1
30°	1194.4	1180.8	1188.2	1174.3	1173.0
32.5°	1158.2	1145.7	1150.9	1137.1	1135.7
35°	1100.2	1089.1	1092.7	1080.1	1078.8
37.5°	1039.1	1027.9	1031.8	1020.9	1020.5
40°	995.9	988.5	989.6	980.7	978.4
42.5°	955.8	947.3	948.4	939.5	939.1
45°	894.3	888.0	888.0	879.1	879.1
47.5°	828.9	824.1	822.9	815.4	815.2
50°	783.6	780.0	778.6	772.4	771.1
52.5°	736.5	734.7	730.4	725.2	725.0
55°	663.1	660.6	654.4	650.5	649.4
57.5°	583.6	578.6	571.5	566.0	566.9
60°	526.2	521.2	511.2	508.7	508.7
62.5°	471.0	465.1	454.9	451.5	453.5
65°	391.9	384.6	375.5	373.1	374.2
67.5°	320.1	313.3	303.6	303.6	302.8
70°	273.7	270.0	262.5	262.5	262.5
72.5°	232.6	230.8	225.5	225.2	224.3
75°	178.4	178.4	175.8	174.6	173.2
77.5°	133.6	134.1	133.0	131.6	129.3
80°	105.5	108.0	106.8	105.5	104.1
82.5°	79.5	81.8	81.6	79.5	79.1
85°	41.4	45.0	45.2	45.2	45.2
87.5°	11.1	15.0	16.0	16.0	17.1
90°	7.6	11.4	11.4	7.6	3.8
92.5°	19.0	57.0	53.1	22.8	19.0
95°	34.2	117.6	341.6	87.3	53.1
97.5°	53.1	132.9	683.2	311.3	167.0
100°	72.1	140.4	797.0	747.7	482.0
102.5°	94.9	151.8	793.2	1051.4	865.3
105°	117.6	167.0	740.1	1248.7	1161.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	182.2	223.9	577.0	1256.3	1431.0
115°	204.9	246.7	550.3	1161.5	1370.2
117.5°	227.7	273.3	535.2	1074.2	1282.9
120°	246.7	296.0	523.8	990.6	1195.6
122.5°	261.9	318.8	516.2	922.3	1108.3
125°	277.0	341.6	512.4	865.3	1032.4
127.5°	292.3	356.8	512.4	823.7	964.1
130°	307.5	364.4	508.6	781.9	907.1
132.5°	322.6	368.1	508.6	751.5	857.8
135°	334.0	375.8	508.6	721.2	816.0
137.5°	349.2	383.3	508.6	694.6	781.9
140°	360.6	394.8	508.6	668.0	743.9
142.5°	375.8	406.1	508.6	641.5	709.8
145°	390.9	417.6	504.8	622.5	675.6
147.5°	406.1	428.9	501.0	603.5	645.3
150°	417.6	440.3	501.0	584.5	618.6
152.5°	432.7	451.7	497.2	565.5	595.9
155°	444.1	459.2	497.2	554.2	573.1
157.5°	455.4	470.7	497.2	542.8	558.0
160°	466.9	478.2	501.0	535.2	546.5
162.5°	478.2	485.9	501.0	527.5	535.2
165°	485.9	489.7	501.0	523.8	527.5
167.5°	493.4	497.2	501.0	520.0	520.0
170°	497.2	501.0	504.8	516.2	516.2
172.5°	504.8	504.8	504.8	512.4	512.4
175°	508.6	508.6	504.8	512.4	508.6
177.5°	508.6	508.6	504.8	512.4	508.6
180°	508.6	508.6	508.6	508.6	508.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	140.4	186.0	671.8	1336.0	1351.2
110°	159.4	204.9	618.6	1324.7	1434.7



(END OF REPORT)