

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: P845127

Luminaire Tested: **SQ4P-PP3-125U-100D-B40-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845127  
REPORT IS A COMBINATION OF REPORTS P700117 AND P700247  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PP3-125U-100D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT  
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

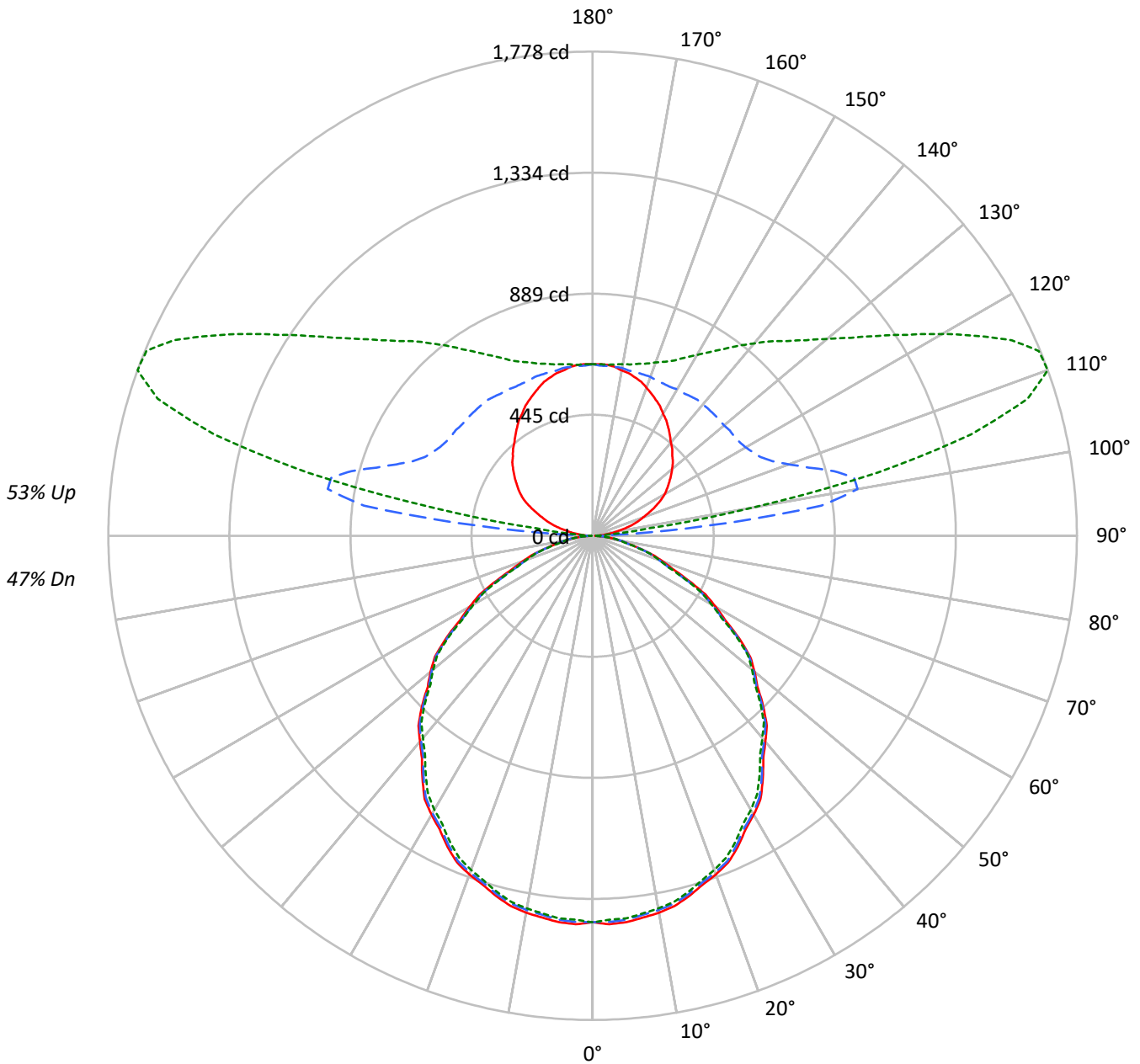
Lumens per Lamp: N/A  
Luminaire Lumens: 7723.8 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 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									
RC	80									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															
1	97	93	89	86	89	86	82	80	72	70	67	59	58	56	48	46	45				40																
2	89	81	75	70	81	75	70	66	63	59	56	52	49	47	42	40	39				34																
3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	37	35	33				29																
4	74	64	56	50	68	59	52	47	50	44	40	41	37	34	33	31	28				25																
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25				22																
6	63	51	43	37	57	47	40	35	40	35	30	33	29	26	27	24	22				19																
7	58	46	38	32	53	43	35	31	36	31	27	30	26	23	25	22	19				17																
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17				15																
9	50	38	30	25	46	35	29	24	30	25	21	26	21	18	21	18	16				14																
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14				12																

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

	0°	45°	90°
0°	13093	13093	13093
5°	13188	13108	13062
10°	13167	13074	13016
15°	13080	13008	12937
20°	12993	12919	12822
25°	12838	12750	12624
30°	12601	12535	12375
35°	12271	12188	12032
40°	11878	11803	11669
45°	11555	11474	11359
50°	11138	11068	10960
55°	10562	10423	10345
60°	9616	9341	9294
65°	8473	8117	8091
70°	7310	7011	7011
75°	6299	6206	6114
80°	5552	5616	5478
85°	4340	4742	4742



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.2	1.7
10°-20°	383.2	5.0
20°-30°	573.9	7.4
30°-40°	673.2	8.7
40°-50°	675.2	8.7
50°-60°	576.1	7.5
60°-70°	375.7	4.9
70°-80°	188.5	2.4
80°-90°	53.7	0.7
90°-100°	250.8	3.2
100°-110°	872.7	11.3
110°-120°	845.4	10.9
120°-130°	663.2	8.6
130°-140°	524.9	6.8
140°-150°	405.1	5.2
150°-160°	290.4	3.8
160°-170°	177.6	2.3
170°-180°	60.1	0.8
0°-30°	1091.3	14.1
0°-40°	1764.4	22.8
0°-60°	3015.7	39.0
0°-90°	3633.6	47.0
90°-120°	1969.0	25.5
90°-150°	3562.1	46.1
90°-180°	4090.0	53.0
0°-180°	7723.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1419	1419	1419	1419	1419	
5°	1424	1411	1415	1410	1410	135
15°	1369	1356	1362	1357	1354	386
25°	1261	1246	1252	1241	1240	580
35°	1090	1079	1082	1070	1068	681
45°	886	879	879	871	871	682
55°	657	654	648	644	643	584
65°	388	381	372	370	371	387
75°	177	177	174	173	172	192
85°	41	45	45	45	45	48
90°	9	14	14	9	5	7
95°	42	146	423	108	66	45
105°	146	207	917	1547	1439	153
115°	254	306	682	1439	1698	251
125°	343	423	635	1072	1279	307
135°	414	466	630	894	1011	321
145°	484	517	626	771	837	303
155°	550	569	616	687	710	254
165°	602	607	621	649	654	170
175°	630	630	626	635	630	60
180°	630	630	630	630	630	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1419.1	1419.1	1419.1	1419.1	1419.1
2.5°	1427.9	1416.4	1419.1	1417.0	1411.2
5°	1424.0	1410.8	1415.3	1410.4	1410.4
7.5°	1414.4	1399.8	1404.4	1399.4	1399.2
10°	1405.4	1390.8	1395.5	1390.4	1389.3
12.5°	1392.5	1378.0	1383.5	1377.5	1377.3
15°	1369.4	1355.9	1361.9	1356.8	1354.4
17.5°	1343.2	1328.7	1335.8	1328.9	1327.8
20°	1323.3	1308.7	1315.8	1305.9	1305.9
22.5°	1299.5	1284.9	1293.0	1279.9	1279.9
25°	1261.1	1246.5	1252.5	1241.2	1240.1
27.5°	1215.6	1201.3	1207.5	1194.7	1194.4
30°	1182.8	1169.4	1176.6	1162.9	1161.6
32.5°	1147.0	1134.6	1139.7	1126.1	1124.7
35°	1089.5	1078.6	1082.1	1069.7	1068.3
37.5°	1029.0	1017.9	1021.8	1011.0	1010.6
40°	986.2	978.9	980.0	971.2	968.9
42.5°	946.5	938.1	939.2	930.4	930.0
45°	885.6	879.4	879.4	870.6	870.6
47.5°	820.9	816.1	814.9	807.5	807.3
50°	776.0	772.4	771.1	764.9	763.6
52.5°	729.3	727.6	723.3	718.2	718.0
55°	656.6	654.2	648.0	644.1	643.1
57.5°	577.9	573.0	565.9	560.5	561.4
60°	521.1	516.1	506.2	503.7	503.7
62.5°	466.4	460.6	450.5	447.1	449.1
65°	388.1	380.8	371.8	369.5	370.6
67.5°	317.0	310.3	300.6	300.6	299.8
70°	271.0	267.4	259.9	259.9	259.9
72.5°	230.3	228.6	223.3	223.0	222.1
75°	176.7	176.7	174.1	172.9	171.5
77.5°	132.3	132.8	131.7	130.3	128.0
80°	104.5	107.0	105.7	104.5	103.1
82.5°	78.7	81.0	80.8	78.7	78.3
85°	41.0	44.6	44.8	44.8	44.8
87.5°	11.0	14.8	15.9	15.9	17.0
90°	9.4	14.1	14.1	9.4	4.7
92.5°	23.5	70.5	65.8	28.2	23.5
95°	42.3	145.8	423.3	108.1	65.8
97.5°	65.8	164.6	846.6	385.7	207.0
100°	89.3	174.0	987.7	926.5	597.3
102.5°	117.5	188.1	983.0	1302.8	1072.4
105°	145.8	207.0	917.1	1547.4	1439.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	225.8	277.5	714.9	1556.8	1773.2
115°	254.0	305.7	682.0	1439.3	1697.9
117.5°	282.2	338.7	663.1	1331.1	1589.7
120°	305.7	366.9	649.1	1227.6	1481.6
122.5°	324.5	395.1	639.7	1142.9	1373.4
125°	343.3	423.3	634.9	1072.4	1279.4
127.5°	362.1	442.1	634.9	1020.6	1194.7
130°	380.9	451.5	630.3	968.9	1124.1
132.5°	399.8	456.2	630.3	931.3	1063.0
135°	413.9	465.6	630.3	893.7	1011.2
137.5°	432.7	475.0	630.3	860.7	968.9
140°	446.8	489.2	630.3	827.8	921.9
142.5°	465.6	503.2	630.3	794.8	879.5
145°	484.4	517.4	625.5	771.4	837.2
147.5°	503.2	531.4	620.9	747.8	799.6
150°	517.4	545.6	620.9	724.3	766.6
152.5°	536.2	559.7	616.1	700.8	738.4
155°	550.3	569.1	616.1	686.7	710.2
157.5°	564.4	583.2	616.1	672.6	691.4
160°	578.5	592.6	620.9	663.1	677.3
162.5°	592.6	602.1	620.9	653.7	663.1
165°	602.1	606.7	620.9	649.1	653.7
167.5°	611.5	616.1	620.9	644.3	644.3
170°	616.1	620.9	625.5	639.7	639.7
172.5°	625.5	625.5	625.5	634.9	634.9
175°	630.3	630.3	625.5	634.9	630.3
177.5°	630.3	630.3	625.5	634.9	630.3
180°	630.3	630.3	630.3	630.3	630.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	174.0	230.4	832.5	1655.5	1674.4
110°	197.5	254.0	766.6	1641.5	1777.8



(END OF REPORT)