

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: P845138

Luminaire Tested: **SQ4P-PP3-150U-100D-B35-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845138  
REPORT IS A COMBINATION OF REPORTS P700145 AND P700248  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PP3-150U-100D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

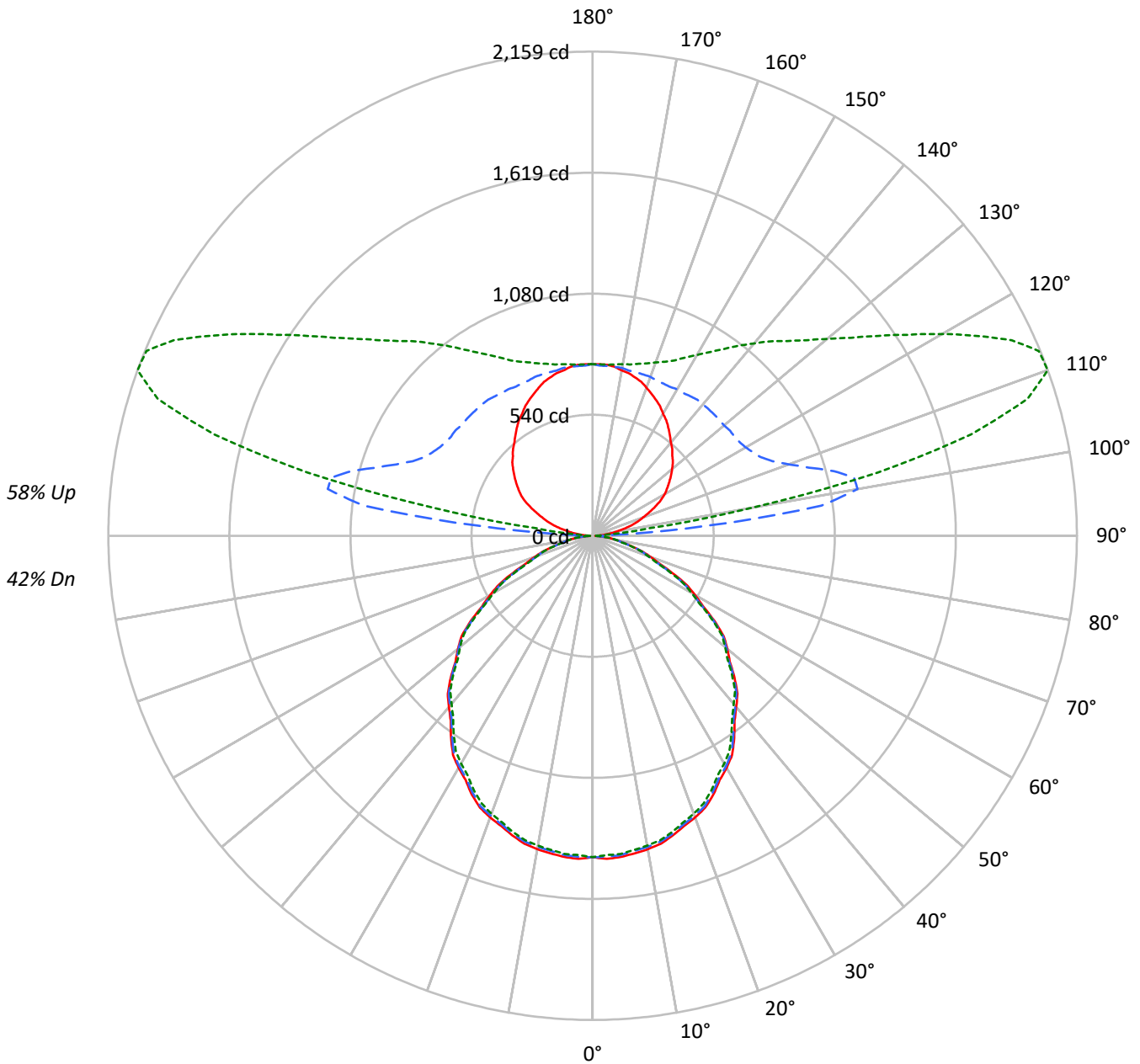
Lumens per Lamp: N/A  
Luminaire Lumens: 8636.3 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 77.9  
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	42																			
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36																			
2	88	81	75	70	80	74	69	64	61	57	54	49	47	45	39	37	36	31																			
3	80	71	64	58	73	65	59	54	54	49	46	44	41	38	34	32	30	26																			
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22																			
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	28	25	23	19																			
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17																			
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15																			
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	14																			
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	19	17	14	12																			
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11																			

**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	1.6
10°-20°	386.9	4.5
20°-30°	579.5	6.7
30°-40°	679.8	7.9
40°-50°	681.8	7.9
50°-60°	581.7	6.7
60°-70°	379.4	4.4
70°-80°	190.3	2.2
80°-90°	54.5	0.6
90°-100°	304.6	3.5
100°-110°	1059.8	12.3
110°-120°	1026.6	11.9
120°-130°	805.3	9.3
130°-140°	637.4	7.4
140°-150°	491.9	5.7
150°-160°	352.6	4.1
160°-170°	215.7	2.5
170°-180°	73.0	0.8
0°-30°	1102.0	12.8
0°-40°	1781.7	20.6
0°-60°	3045.3	35.3
0°-90°	3669.5	42.5
90°-120°	2391.0	27.7
90°-150°	4325.6	50.1
90°-180°	4967.0	57.5
0°-180°	8636.3	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°	11	17	17	11	6	9
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°	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°	11.4	17.1	17.1	11.4	5.7
92.5°	28.6	85.6	79.9	34.2	28.6
95°	51.4	177.0	514.0	131.3	79.9
97.5°	79.9	199.9	1028.1	468.3	251.3
100°	108.5	211.3	1199.4	1125.2	725.3
102.5°	142.8	228.5	1193.7	1582.0	1302.2
105°	177.0	251.3	1113.7	1879.0	1747.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	274.1	337.0	868.1	1890.5	2153.1
115°	308.4	371.3	828.2	1747.7	2061.8
117.5°	342.7	411.2	805.3	1616.3	1930.4
120°	371.3	445.4	788.1	1490.6	1799.1
122.5°	394.1	479.8	776.8	1387.9	1667.7
125°	417.0	514.0	771.0	1302.2	1553.5
127.5°	439.8	536.8	771.0	1239.4	1450.7
130°	462.7	548.3	765.3	1176.5	1365.0
132.5°	485.5	554.0	765.3	1130.8	1290.7
135°	502.6	565.4	765.3	1085.1	1227.9
137.5°	525.5	576.9	765.3	1045.2	1176.5
140°	542.6	594.0	765.3	1005.2	1119.4
142.5°	565.4	611.1	765.3	965.3	1068.0
145°	588.3	628.2	759.6	936.7	1016.6
147.5°	611.1	645.4	753.9	908.1	970.9
150°	628.2	662.5	753.9	879.5	930.9
152.5°	651.1	679.6	748.2	851.0	896.7
155°	668.3	691.1	748.2	833.8	862.4
157.5°	685.4	708.2	748.2	816.7	839.6
160°	702.5	719.6	753.9	805.3	822.4
162.5°	719.6	731.1	753.9	793.9	805.3
165°	731.1	736.8	753.9	788.1	793.9
167.5°	742.4	748.2	753.9	782.5	782.5
170°	748.2	753.9	759.6	776.8	776.8
172.5°	759.6	759.6	759.6	771.0	771.0
175°	765.3	765.3	759.6	771.0	765.3
177.5°	765.3	765.3	759.6	771.0	765.3
180°	765.3	765.3	765.3	765.3	765.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	211.3	279.9	1011.0	2010.4	2033.3
110°	239.8	308.4	930.9	1993.2	2158.9



(END OF REPORT)