

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P564403

Luminaire Tested: **SQ4-PR1-125U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564403  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-125U-125D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

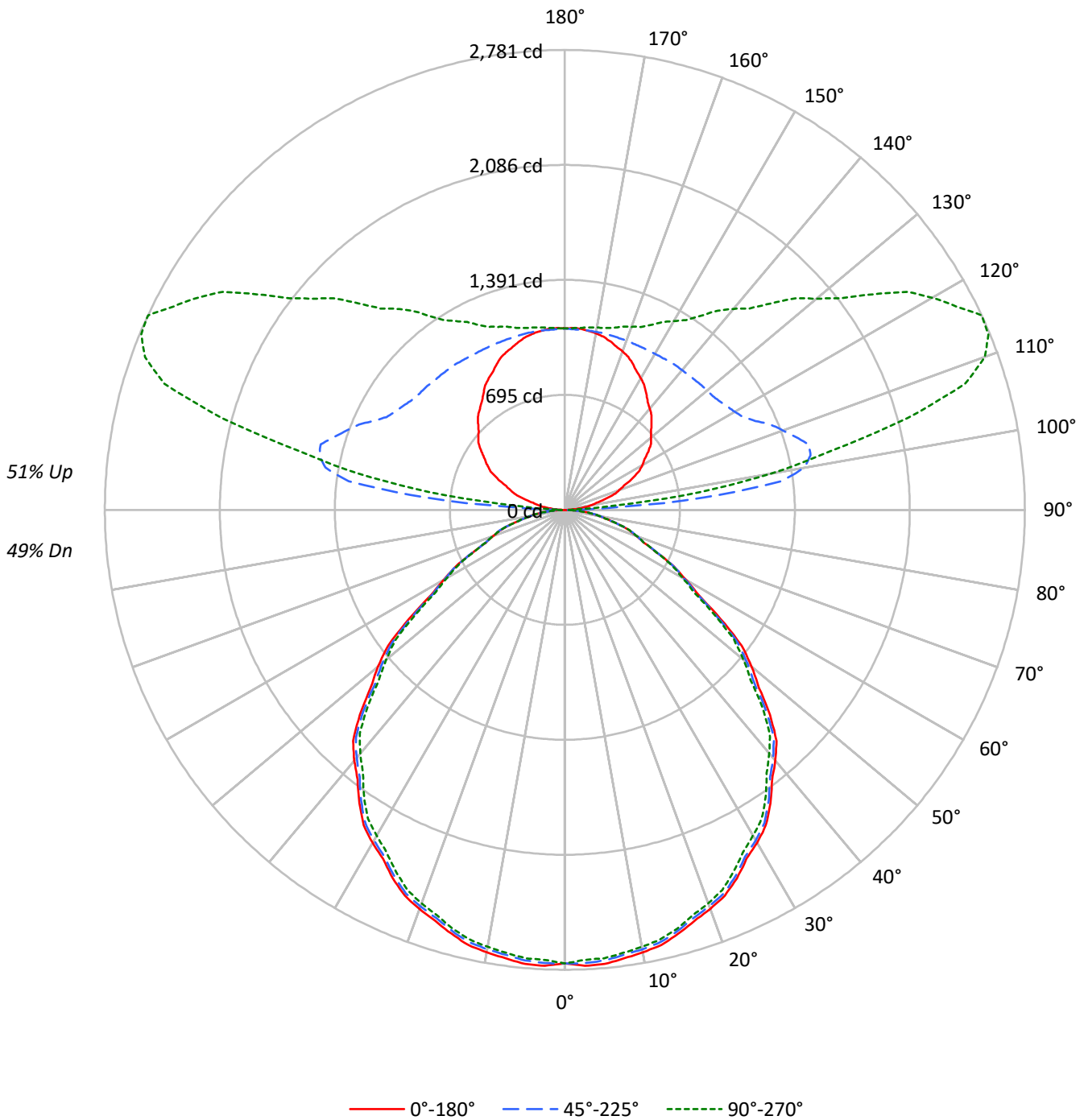
Lumens per Lamp: N/A  
Luminaire Lumens: 13937.5 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 117.2  
Input Voltage (V): 120  
Input Current (Ain): 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: 24 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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35	31
4	75	64	56	51	69	60	53	47	51	46	41	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23
6	63	51	43	38	58	48	41	36	41	36	31	35	30	27	29	26	23	20
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	23	20	25	20	18	21	18	15	13

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

	0°	45°	90°
0°	16870	16870	16870
5°	17023	16891	16803
10°	16968	16850	16762
15°	16894	16789	16698
20°	16809	16700	16577
25°	16690	16578	16386
30°	16510	16393	16158
35°	16267	16125	15894
40°	15896	15725	15440
45°	15248	14981	14673
50°	14107	13767	13496
55°	12312	12034	11780
60°	10375	10288	10085
65°	8974	9009	8939
70°	8242	8285	8285
75°	7916	7916	7973
80°	7449	7531	7449
85°	5999	6669	6669



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.4	1.9
10°-20°	742.1	5.3
20°-30°	1119.3	8.0
30°-40°	1333.6	9.6
40°-50°	1314.9	9.4
50°-60°	1004.9	7.2
60°-70°	621.9	4.5
70°-80°	353.2	2.5
80°-90°	110.0	0.8
90°-100°	512.9	3.7
100°-110°	1381.7	9.9
110°-120°	1450.0	10.4
120°-130°	1176.7	8.4
130°-140°	922.8	6.6
140°-150°	708.5	5.1
150°-160°	509.4	3.7
160°-170°	311.2	2.2
170°-180°	105.0	0.8
0°-30°	2120.8	15.2
0°-40°	3454.4	24.8
0°-60°	5774.2	41.4
0°-90°	6859.3	49.2
90°-120°	3344.6	24.0
90°-150°	6152.6	44.1
90°-180°	7078.0	50.8
0°-180°	13937.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2743	2743	2743	2743	2743	
5°	2757	2727	2736	2726	2722	262
15°	2653	2625	2636	2627	2622	749
25°	2459	2429	2443	2417	2414	1132
35°	2166	2141	2148	2119	2117	1352
45°	1753	1730	1722	1691	1687	1343
55°	1148	1130	1122	1103	1098	1029
65°	617	612	619	614	614	625
75°	333	333	333	336	336	352
85°	85	90	94	94	94	99
90°	3	8	17	18	18	9
95°	78	279	841	430	298	82
105°	256	398	1528	2286	2145	269
115°	451	552	1272	2459	2781	444
125°	616	708	1142	1931	2272	550
135°	742	828	1110	1558	1764	572
145°	858	924	1096	1332	1430	538
155°	974	1009	1087	1195	1233	448
165°	1056	1068	1091	1134	1140	298
175°	1098	1096	1092	1108	1105	104
180°	1096	1096	1096	1096	1096	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2742.8	2742.8	2742.8	2742.8	2742.8
2.5°	2759.8	2735.8	2742.8	2736.8	2723.9
5°	2757.0	2726.9	2735.7	2726.1	2721.5
7.5°	2735.7	2706.1	2714.9	2705.4	2702.6
10°	2716.8	2689.1	2697.9	2688.3	2683.7
12.5°	2696.0	2666.4	2677.1	2665.7	2661.0
15°	2653.0	2625.3	2636.5	2626.9	2622.3
17.5°	2605.8	2576.2	2587.3	2576.3	2570.3
20°	2568.0	2540.2	2551.4	2534.8	2532.5
22.5°	2526.4	2498.7	2509.8	2487.6	2487.2
25°	2459.3	2429.3	2442.8	2416.7	2414.4
27.5°	2379.4	2351.7	2362.9	2336.4	2333.6
30°	2324.6	2296.9	2308.1	2279.6	2275.0
32.5°	2262.3	2236.4	2245.7	2217.3	2214.5
35°	2166.4	2140.9	2147.5	2119.0	2116.7
37.5°	2057.2	2034.1	2037.8	2006.6	2004.3
40°	1979.7	1956.6	1958.5	1925.3	1923.0
42.5°	1894.7	1871.6	1869.6	1836.5	1834.2
45°	1752.9	1729.8	1722.2	1691.4	1686.8
47.5°	1591.3	1568.2	1554.0	1528.9	1525.7
50°	1474.2	1451.1	1438.7	1417.3	1410.4
52.5°	1347.5	1324.4	1314.0	1294.5	1287.5
55°	1148.1	1129.7	1122.2	1103.2	1098.5
57.5°	958.7	946.2	944.0	925.6	923.7
60°	843.4	836.5	836.3	819.8	819.8
62.5°	745.1	740.0	743.7	732.8	730.9
65°	616.6	612.0	619.0	614.2	614.2
67.5°	515.0	515.0	519.3	517.4	517.4
70°	458.3	458.3	460.7	460.7	460.7
72.5°	407.3	405.4	411.5	411.5	409.6
75°	333.1	333.1	333.1	335.5	335.5
77.5°	259.4	259.9	261.8	261.2	259.4
80°	210.3	212.6	212.6	210.3	210.3
82.5°	161.1	163.4	163.5	163.0	161.1
85°	85.0	89.7	94.5	94.5	94.5
87.5°	25.1	33.6	41.2	41.4	39.5
90°	2.8	8.3	16.8	18.2	18.2
92.5°	34.1	120.4	238.0	114.6	79.6
95°	78.2	279.0	840.8	430.0	297.5
97.5°	124.9	319.3	1318.8	1101.7	830.8
100°	160.6	335.4	1470.8	1538.8	1276.6
102.5°	195.3	358.1	1521.1	1866.2	1651.0
105°	255.6	397.6	1528.0	2286.1	2145.4
107.5°	312.6	439.3	1463.0	2501.9	2538.2
110°	350.6	470.8	1403.7	2568.8	2701.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	390.8	502.3	1346.7	2554.0	2771.7
115°	451.2	552.2	1272.4	2458.6	2780.9
117.5°	506.2	601.0	1214.9	2306.4	2665.3
120°	541.9	633.4	1185.8	2197.1	2565.8
122.5°	573.2	663.6	1164.6	2085.3	2453.0
125°	616.0	707.5	1142.5	1931.1	2272.5
127.5°	657.0	747.2	1128.6	1795.1	2099.9
130°	681.6	771.8	1123.0	1717.1	1984.8
132.5°	706.2	795.2	1117.4	1648.4	1894.3
135°	741.7	827.7	1110.4	1557.9	1764.1
137.5°	775.5	858.0	1106.8	1481.1	1650.4
140°	798.9	878.2	1103.4	1433.8	1586.7
142.5°	823.5	897.3	1101.2	1389.6	1518.5
145°	857.6	924.5	1096.5	1331.9	1430.3
147.5°	894.5	952.7	1091.7	1283.4	1360.7
150°	919.1	969.6	1089.5	1252.9	1317.1
152.5°	941.4	985.4	1088.3	1228.1	1280.3
155°	973.5	1009.0	1086.7	1195.1	1233.3
157.5°	1001.8	1029.3	1087.0	1171.9	1197.6
160°	1019.6	1042.8	1088.1	1158.3	1177.5
162.5°	1035.3	1054.1	1089.2	1147.0	1160.7
165°	1055.9	1068.2	1090.9	1134.3	1139.8
167.5°	1072.7	1079.8	1092.3	1124.4	1126.6
170°	1083.9	1086.6	1092.3	1118.8	1118.8
172.5°	1090.6	1091.1	1093.4	1113.2	1113.2
175°	1097.8	1096.5	1092.3	1107.6	1104.8
177.5°	1100.9	1098.7	1093.1	1102.0	1099.8
180°	1096.5	1096.5	1096.5	1096.5	1096.5

(END OF REPORT)