

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: P520345

Luminaire Tested: **SQ4-F-125U-125D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520345  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-125U-125D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

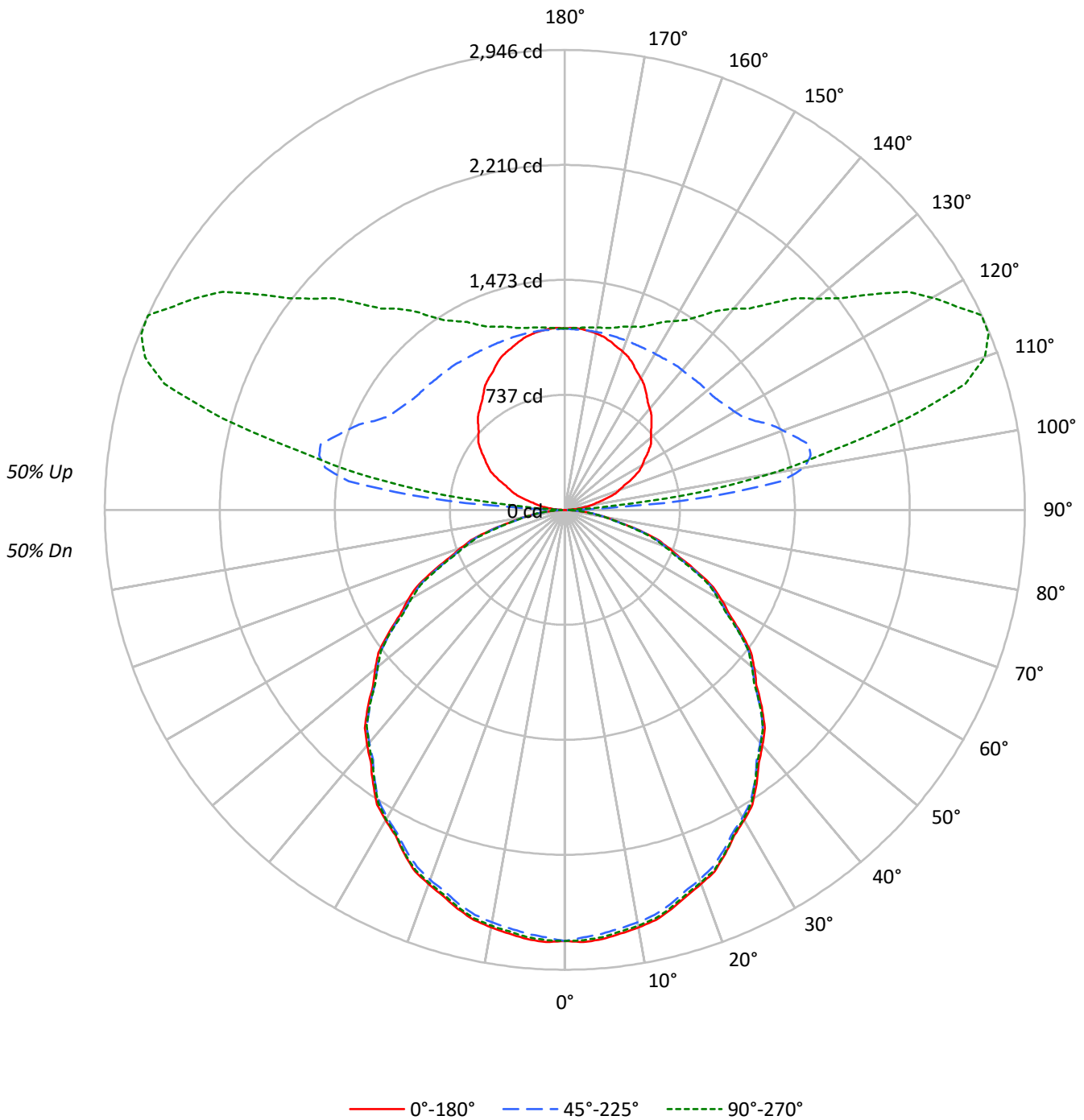
Lumens per Lamp: N/A  
Luminaire Lumens: 15038.3 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 114.6  
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	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	50	49	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	58	75	66	60	55	56	51	47	47	44	41	39	36	34	30
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	50	42	36	58	47	40	34	40	34	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	33	28	49	38	31	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	18	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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

	0°	45°	90°
0°	16990	16990	16990
5°	17046	16831	16971
10°	16968	16759	16892
15°	16854	16651	16787
20°	16698	16509	16638
25°	16508	16333	16467
30°	16304	16164	16250
35°	16072	15936	15947
40°	15808	15637	15686
45°	15512	15340	15367
50°	15173	14998	14954
55°	14787	14574	14542
60°	14307	13989	13914
65°	13563	13276	13099
70°	12632	12303	12139
75°	11236	10984	10659
80°	9153	8884	8830
85°	5469	6224	6224



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.6	1.7
10°-20°	742.3	4.9
20°-30°	1115.2	7.4
30°-40°	1330.7	8.8
40°-50°	1364.0	9.1
50°-60°	1215.8	8.1
60°-70°	905.0	6.0
70°-80°	490.3	3.3
80°-90°	115.3	0.8
90°-100°	543.4	3.6
100°-110°	1463.8	9.7
110°-120°	1536.2	10.2
120°-130°	1246.6	8.3
130°-140°	977.7	6.5
140°-150°	750.6	5.0
150°-160°	539.7	3.6
160°-170°	329.7	2.2
170°-180°	111.2	0.7
0°-30°	2118.2	14.1
0°-40°	3448.8	22.9
0°-60°	6028.6	40.1
0°-90°	7539.2	50.1
90°-120°	3543.5	23.6
90°-150°	6518.4	43.3
90°-180°	7499.0	49.9
0°-180°	15038.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2762	2762	2762	2762	2762	
5°	2761	2756	2726	2750	2749	262
15°	2647	2641	2615	2638	2636	746
25°	2432	2428	2407	2420	2426	1120
35°	2140	2139	2122	2122	2124	1339
45°	1783	1779	1764	1761	1767	1374
55°	1379	1374	1359	1349	1356	1231
65°	932	926	912	906	900	923
75°	473	473	462	453	448	502
85°	78	88	88	90	88	107
90°	3	9	18	19	19	8
95°	83	296	891	456	315	87
105°	271	421	1619	2422	2273	285
115°	478	585	1348	2605	2946	470
125°	653	750	1210	2046	2408	583
135°	786	877	1176	1650	1869	606
145°	909	980	1162	1411	1515	570
155°	1031	1069	1151	1266	1307	475
165°	1119	1132	1156	1202	1208	315
175°	1163	1162	1157	1173	1170	110
180°	1162	1162	1162	1162	1162	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2762.3	2762.3	2762.3	2762.3	2762.3
2.5°	2770.9	2766.1	2741.7	2762.2	2758.7
5°	2760.8	2756.4	2725.9	2750.2	2748.7
7.5°	2737.4	2731.7	2704.0	2726.7	2724.0
10°	2716.7	2712.3	2683.3	2706.1	2704.6
12.5°	2691.2	2686.7	2657.7	2680.6	2680.2
15°	2646.8	2640.8	2614.9	2637.7	2636.2
17.5°	2593.6	2586.8	2561.1	2579.1	2582.0
20°	2551.0	2546.6	2522.1	2539.0	2541.9
22.5°	2507.2	2501.6	2475.9	2495.2	2498.1
25°	2432.4	2428.0	2406.6	2420.4	2426.4
27.5°	2350.3	2350.3	2330.6	2340.4	2344.0
30°	2295.6	2295.6	2275.9	2282.0	2288.0
32.5°	2237.2	2232.5	2213.8	2218.8	2224.8
35°	2140.5	2139.0	2122.3	2122.3	2123.8
37.5°	2040.5	2036.4	2018.0	2019.4	2026.5
40°	1968.8	1965.8	1947.5	1947.6	1953.6
42.5°	1895.8	1892.8	1876.9	1874.6	1876.9
45°	1783.3	1778.8	1763.5	1760.6	1766.6
47.5°	1663.5	1664.7	1646.5	1642.3	1645.5
50°	1585.6	1585.6	1567.4	1558.4	1562.8
52.5°	1504.2	1501.8	1483.5	1473.4	1483.8
55°	1378.9	1374.4	1359.1	1348.7	1356.1
57.5°	1250.6	1243.8	1228.4	1216.9	1221.1
60°	1163.0	1152.6	1137.2	1128.1	1131.1
62.5°	1071.8	1066.1	1049.6	1035.7	1042.3
65°	931.9	925.9	912.2	906.0	900.0
67.5°	794.8	790.9	775.3	768.9	765.0
70°	702.4	695.0	684.1	676.5	675.0
72.5°	612.4	603.8	592.9	586.4	582.6
75°	472.8	472.8	462.2	452.9	448.5
77.5°	339.9	341.2	332.3	329.3	327.2
80°	258.4	258.4	250.8	247.8	249.3
82.5°	180.6	184.2	181.5	177.3	175.1
85°	77.5	88.0	88.2	89.7	88.2
87.5°	14.0	23.5	26.8	24.5	22.2
90°	3.0	8.8	17.8	19.2	19.2
92.5°	36.1	127.6	252.1	121.4	84.4
95°	82.9	295.5	890.8	455.6	315.2
97.5°	132.3	338.3	1397.2	1167.3	880.2
100°	170.2	355.4	1558.2	1630.4	1352.5
102.5°	206.9	379.4	1611.5	1977.1	1749.1
105°	270.8	421.2	1618.9	2422.0	2272.9
107.5°	331.1	465.4	1549.9	2650.6	2689.1
110°	371.4	498.8	1487.2	2721.6	2861.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	414.0	532.1	1426.8	2705.9	2936.5
115°	478.0	585.0	1348.1	2604.7	2946.2
117.5°	536.3	636.7	1287.1	2443.5	2823.7
120°	574.2	671.1	1256.3	2327.7	2718.4
122.5°	607.3	703.1	1233.9	2209.3	2598.8
125°	652.6	749.5	1210.5	2045.9	2407.6
127.5°	696.1	791.5	1195.7	1901.8	2224.7
130°	722.2	817.6	1189.8	1819.2	2102.8
132.5°	748.1	842.6	1183.9	1746.4	2006.9
135°	785.7	876.9	1176.5	1650.5	1868.9
137.5°	821.5	909.0	1172.6	1569.1	1748.5
140°	846.4	930.4	1169.1	1519.0	1681.1
142.5°	872.5	950.6	1166.7	1472.3	1608.8
145°	908.6	979.5	1161.7	1411.1	1515.3
147.5°	947.6	1009.3	1156.6	1359.7	1441.6
150°	973.7	1027.3	1154.3	1327.4	1395.4
152.5°	997.4	1043.9	1153.1	1301.1	1356.3
155°	1031.4	1069.0	1151.3	1266.2	1306.6
157.5°	1061.3	1090.5	1151.6	1241.6	1268.7
160°	1080.3	1104.8	1152.8	1227.2	1247.4
162.5°	1096.8	1116.8	1154.0	1215.2	1229.7
165°	1118.7	1131.8	1155.7	1201.7	1207.5
167.5°	1136.5	1144.0	1157.2	1191.3	1193.6
170°	1148.3	1151.2	1157.2	1185.3	1185.3
172.5°	1155.4	1156.0	1158.4	1179.4	1179.4
175°	1163.1	1161.7	1157.2	1173.4	1170.5
177.5°	1166.4	1164.0	1158.1	1167.5	1165.2
180°	1161.7	1161.7	1161.7	1161.7	1161.7

(END OF REPORT)