

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: P520358

Luminaire Tested: **SQ4-F-125U-125D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520358  
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-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

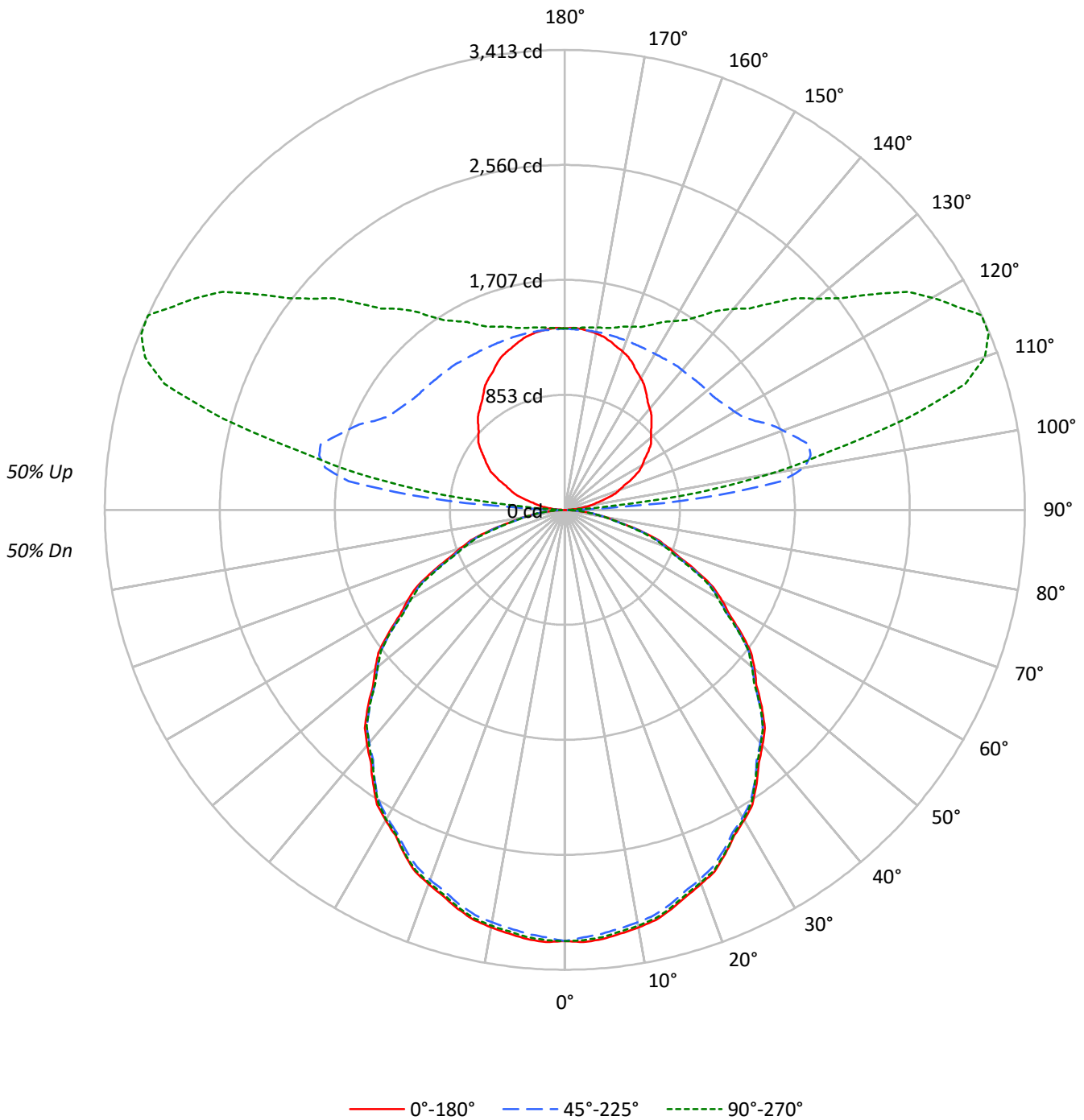
Lumens per Lamp: N/A  
Luminaire Lumens: 17422.1 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 142  
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°	14763	14763	14763
5°	14811	14623	14746
10°	14743	14562	14677
15°	14645	14468	14585
20°	14509	14345	14457
25°	14344	14191	14308
30°	14167	14045	14120
35°	13966	13846	13856
40°	13735	13587	13630
45°	13478	13328	13352
50°	13184	13032	12993
55°	12848	12664	12636
60°	12431	12156	12090
65°	11785	11536	11382
70°	10976	10690	10547
75°	9764	9543	9259
80°	7954	7720	7675
85°	4753	5409	5409



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.9	1.7
10°-20°	860.0	4.9
20°-30°	1292.0	7.4
30°-40°	1541.6	8.8
40°-50°	1580.2	9.1
50°-60°	1408.5	8.1
60°-70°	1048.5	6.0
70°-80°	568.0	3.3
80°-90°	133.6	0.8
90°-100°	629.6	3.6
100°-110°	1695.9	9.7
110°-120°	1779.8	10.2
120°-130°	1444.2	8.3
130°-140°	1132.7	6.5
140°-150°	869.6	5.0
150°-160°	625.2	3.6
160°-170°	382.0	2.2
170°-180°	128.8	0.7
0°-30°	2453.9	14.1
0°-40°	3995.6	22.9
0°-60°	6984.2	40.1
0°-90°	8734.4	50.1
90°-120°	4105.2	23.6
90°-150°	7551.7	43.3
90°-180°	8688.0	49.9
0°-180°	17422.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3200	3200	3200	3200	3200	
5°	3198	3193	3158	3186	3184	303
15°	3066	3060	3029	3056	3054	864
25°	2818	2813	2788	2804	2811	1298
35°	2480	2478	2459	2459	2460	1551
45°	2066	2061	2043	2040	2047	1592
55°	1598	1592	1575	1562	1571	1427
65°	1080	1073	1057	1050	1043	1069
75°	548	548	535	525	520	582
85°	90	102	102	104	102	124
90°	4	10	20	22	22	9
95°	96	342	1032	528	365	100
105°	314	488	1876	2806	2633	330
115°	554	678	1562	3018	3413	545
125°	756	868	1402	2370	2789	675
135°	910	1016	1363	1912	2165	703
145°	1053	1135	1346	1635	1756	660
155°	1195	1238	1334	1467	1514	550
165°	1296	1311	1339	1392	1399	365
175°	1348	1346	1341	1359	1356	128
180°	1346	1346	1346	1346	1346	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3200.3	3200.3	3200.3	3200.3	3200.3
2.5°	3210.1	3204.5	3176.3	3200.2	3196.0
5°	3198.5	3193.3	3157.9	3186.1	3184.4
7.5°	3171.4	3164.8	3132.6	3158.9	3155.9
10°	3147.4	3142.2	3108.7	3135.0	3133.3
12.5°	3117.8	3112.6	3079.1	3105.5	3105.1
15°	3066.4	3059.5	3029.4	3055.8	3054.0
17.5°	3004.8	2996.8	2967.1	2988.0	2991.4
20°	2955.4	2950.2	2922.0	2941.4	2944.9
22.5°	2904.7	2898.2	2868.5	2890.7	2894.1
25°	2818.1	2812.9	2788.1	2804.1	2811.0
27.5°	2722.9	2722.9	2700.0	2711.4	2715.5
30°	2659.6	2659.6	2636.7	2643.9	2650.8
32.5°	2591.9	2586.4	2564.8	2570.6	2577.5
35°	2479.9	2478.2	2458.7	2458.8	2460.5
37.5°	2364.0	2359.2	2337.9	2339.5	2347.8
40°	2280.8	2277.4	2256.2	2256.4	2263.3
42.5°	2196.3	2192.8	2174.5	2171.7	2174.5
45°	2066.0	2060.8	2043.0	2039.7	2046.6
47.5°	1927.2	1928.5	1907.4	1902.6	1906.4
50°	1837.0	1837.0	1815.9	1805.4	1810.5
52.5°	1742.6	1739.8	1718.6	1707.0	1719.0
55°	1597.5	1592.3	1574.6	1562.4	1571.1
57.5°	1448.8	1440.9	1423.1	1409.8	1414.7
60°	1347.4	1335.3	1317.5	1306.9	1310.4
62.5°	1241.7	1235.2	1216.0	1199.9	1207.5
65°	1079.7	1072.8	1056.8	1049.6	1042.7
67.5°	920.8	916.3	898.3	890.8	886.3
70°	813.8	805.1	792.6	783.8	782.0
72.5°	709.5	699.4	686.9	679.4	674.9
75°	547.8	547.8	535.4	524.7	519.5
77.5°	393.9	395.2	385.0	381.4	379.1
80°	299.4	299.4	290.6	287.1	288.9
82.5°	209.2	213.3	210.3	205.3	202.9
85°	89.8	101.9	102.2	103.9	102.2
87.5°	16.2	27.3	31.0	28.5	25.7
90°	3.5	10.2	20.5	22.3	22.3
92.5°	41.8	147.8	292.2	140.6	97.7
95°	96.0	342.4	1032.0	527.8	365.2
97.5°	153.2	391.9	1618.7	1352.3	1019.7
100°	197.1	411.8	1805.2	1888.8	1566.9
102.5°	239.7	439.5	1867.0	2290.6	2026.4
105°	313.8	488.0	1875.6	2805.9	2633.2
107.5°	383.6	539.2	1795.6	3070.8	3115.4
110°	430.3	577.8	1722.9	3153.0	3315.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	479.6	616.5	1652.9	3134.8	3402.0
115°	553.7	677.8	1561.8	3017.7	3413.2
117.5°	621.2	737.6	1491.1	2830.8	3271.4
120°	665.1	777.4	1455.5	2696.7	3149.3
122.5°	703.5	814.5	1429.5	2559.5	3010.8
125°	756.0	868.3	1402.3	2370.2	2789.2
127.5°	806.4	917.1	1385.3	2203.2	2577.4
130°	836.6	947.2	1378.3	2107.5	2436.1
132.5°	866.7	976.1	1371.5	2023.3	2325.0
135°	910.3	1015.9	1363.0	1912.2	2165.3
137.5°	951.8	1053.0	1358.4	1817.8	2025.7
140°	980.6	1077.8	1354.4	1759.8	1947.5
142.5°	1010.8	1101.3	1351.6	1705.6	1863.8
145°	1052.6	1134.7	1345.8	1634.8	1755.5
147.5°	1097.9	1169.3	1340.0	1575.3	1670.1
150°	1128.0	1190.1	1337.2	1537.9	1616.6
152.5°	1155.4	1209.4	1335.8	1507.3	1571.3
155°	1194.9	1238.5	1333.7	1466.9	1513.8
157.5°	1229.5	1263.4	1334.1	1438.3	1469.9
160°	1251.5	1280.0	1335.5	1421.8	1445.2
162.5°	1270.7	1293.8	1336.9	1407.8	1424.6
165°	1296.1	1311.1	1338.9	1392.3	1399.0
167.5°	1316.7	1325.4	1340.7	1380.1	1382.8
170°	1330.4	1333.7	1340.7	1373.2	1373.2
172.5°	1338.6	1339.3	1342.0	1366.3	1366.3
175°	1347.5	1345.8	1340.7	1359.4	1356.0
177.5°	1351.3	1348.5	1341.6	1352.6	1349.9
180°	1345.8	1345.8	1345.8	1345.8	1345.8

(END OF REPORT)