

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: P520349

Luminaire Tested: **SQ4-F-125U-125D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520349  
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-840-1D-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**

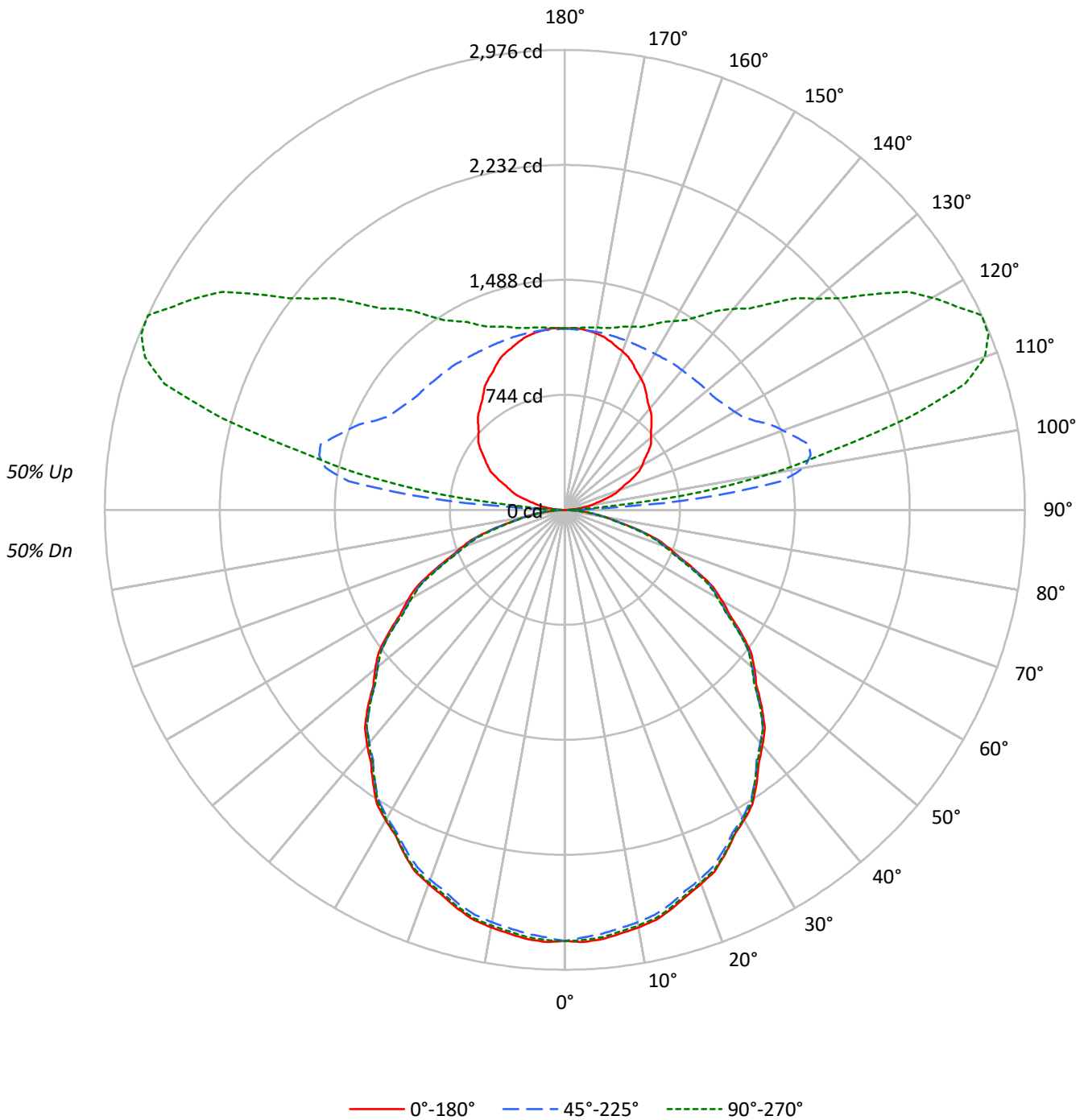
Lumens per Lamp: N/A  
Luminaire Lumens: 15189.6 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

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°	17161	17161	17161
5°	17218	17000	17142
10°	17139	16927	17062
15°	17024	16819	16955
20°	16866	16675	16805
25°	16674	16497	16633
30°	16468	16327	16413
35°	16235	16096	16108
40°	15966	15794	15843
45°	15668	15495	15521
50°	15326	15150	15106
55°	14936	14721	14689
60°	14451	14130	14053
65°	13701	13410	13230
70°	12759	12427	12261
75°	11350	11093	10765
80°	9248	8976	8923
85°	5526	6288	6288



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.3	1.7
10°-20°	749.8	4.9
20°-30°	1126.4	7.4
30°-40°	1344.1	8.8
40°-50°	1377.7	9.1
50°-60°	1228.0	8.1
60°-70°	914.1	6.0
70°-80°	495.3	3.3
80°-90°	116.5	0.8
90°-100°	548.9	3.6
100°-110°	1478.6	9.7
110°-120°	1551.7	10.2
120°-130°	1259.2	8.3
130°-140°	987.5	6.5
140°-150°	758.2	5.0
150°-160°	545.1	3.6
160°-170°	333.0	2.2
170°-180°	112.3	0.7
0°-30°	2139.5	14.1
0°-40°	3483.5	22.9
0°-60°	6089.2	40.1
0°-90°	7615.1	50.1
90°-120°	3579.2	23.6
90°-150°	6584.0	43.3
90°-180°	7574.0	49.9
0°-180°	15189.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2790	2790	2790	2790	2790	
5°	2789	2784	2753	2778	2776	265
15°	2674	2668	2641	2664	2663	754
25°	2457	2452	2431	2445	2451	1131
35°	2162	2161	2144	2144	2145	1352
45°	1801	1797	1781	1778	1784	1388
55°	1393	1388	1373	1362	1370	1244
65°	941	935	921	915	909	932
75°	478	478	467	458	453	507
85°	78	89	89	91	89	108
90°	3	9	18	19	19	8
95°	84	299	900	460	318	87
105°	274	426	1635	2446	2296	288
115°	483	591	1362	2631	2976	475
125°	659	757	1223	2066	2432	589
135°	794	886	1188	1667	1888	613
145°	918	989	1173	1425	1530	576
155°	1042	1080	1163	1279	1320	480
165°	1130	1143	1167	1214	1220	319
175°	1175	1173	1169	1185	1182	112
180°	1173	1173	1173	1173	1173	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2790.1	2790.1	2790.1	2790.1	2790.1
2.5°	2798.7	2794.0	2769.2	2790.0	2786.5
5°	2788.6	2784.1	2753.3	2777.8	2776.3
7.5°	2765.0	2759.2	2731.1	2754.1	2751.4
10°	2744.1	2739.5	2710.2	2733.3	2731.8
12.5°	2718.3	2713.8	2684.5	2707.5	2707.2
15°	2673.5	2667.5	2641.2	2664.2	2662.7
17.5°	2619.6	2612.7	2586.8	2605.0	2608.0
20°	2576.7	2572.2	2547.5	2564.5	2567.4
22.5°	2532.5	2526.8	2500.9	2520.2	2523.3
25°	2456.9	2452.4	2430.8	2444.8	2450.8
27.5°	2374.0	2374.0	2354.0	2363.9	2367.6
30°	2318.7	2318.7	2298.8	2305.0	2311.0
32.5°	2259.7	2255.0	2236.1	2241.2	2247.2
35°	2162.1	2160.6	2143.7	2143.7	2145.2
37.5°	2061.1	2056.8	2038.3	2039.7	2046.9
40°	1988.5	1985.6	1967.0	1967.2	1973.2
42.5°	1914.8	1911.9	1895.8	1893.5	1895.8
45°	1801.2	1796.8	1781.3	1778.3	1784.3
47.5°	1680.2	1681.4	1663.0	1658.8	1662.1
50°	1601.6	1601.6	1583.2	1574.1	1578.6
52.5°	1519.3	1516.9	1498.4	1488.2	1498.7
55°	1392.8	1388.2	1372.8	1362.3	1369.8
57.5°	1263.1	1256.3	1240.7	1229.2	1233.3
60°	1174.7	1164.2	1148.6	1139.5	1142.4
62.5°	1082.5	1076.9	1060.1	1046.2	1052.7
65°	941.4	935.3	921.4	915.1	909.0
67.5°	802.8	798.9	783.1	776.6	772.7
70°	709.5	702.0	691.0	683.3	681.8
72.5°	618.5	609.8	598.9	592.3	588.4
75°	477.6	477.6	466.8	457.5	453.0
77.5°	343.4	344.6	335.7	332.5	330.4
80°	261.1	261.1	253.4	250.3	251.9
82.5°	182.4	186.0	183.3	179.0	176.9
85°	78.3	88.8	89.1	90.6	89.1
87.5°	14.1	23.7	27.1	24.8	22.4
90°	3.0	8.9	18.0	19.4	19.4
92.5°	36.5	128.9	254.7	122.6	85.2
95°	83.7	298.6	899.8	460.1	318.4
97.5°	133.6	341.7	1411.3	1179.0	889.0
100°	171.9	359.0	1573.9	1646.7	1366.1
102.5°	209.0	383.1	1627.7	1997.0	1766.7
105°	273.5	425.5	1635.2	2446.4	2295.8
107.5°	334.5	470.2	1565.5	2677.3	2716.1
110°	375.1	503.8	1502.2	2748.9	2890.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	418.2	537.5	1441.2	2733.1	2966.1
115°	482.8	590.9	1361.7	2631.0	2975.9
117.5°	541.7	643.1	1300.1	2468.1	2852.1
120°	579.9	677.9	1269.0	2351.1	2745.7
122.5°	613.4	710.1	1246.2	2231.6	2625.0
125°	659.1	757.1	1222.6	2066.5	2431.9
127.5°	703.1	799.5	1207.7	1920.9	2247.0
130°	729.4	825.9	1201.7	1837.5	2123.9
132.5°	755.7	850.9	1195.7	1764.1	2027.1
135°	793.7	885.8	1188.3	1667.1	1887.8
137.5°	829.8	918.1	1184.4	1584.9	1766.1
140°	855.0	939.7	1180.8	1534.2	1697.9
142.5°	881.2	960.2	1178.4	1487.1	1625.0
145°	917.7	989.4	1173.3	1425.3	1530.5
147.5°	957.2	1019.5	1168.3	1373.4	1456.1
150°	983.5	1037.5	1165.8	1340.7	1409.4
152.5°	1007.4	1054.5	1164.6	1314.2	1370.1
155°	1041.8	1079.8	1162.8	1278.9	1319.8
157.5°	1072.0	1101.5	1163.1	1254.0	1281.5
160°	1091.1	1116.0	1164.3	1239.5	1260.0
162.5°	1107.9	1128.0	1165.5	1227.5	1242.1
165°	1130.0	1143.1	1167.4	1213.8	1219.7
167.5°	1147.9	1155.5	1168.9	1203.3	1205.6
170°	1159.9	1162.7	1168.9	1197.2	1197.2
172.5°	1167.1	1167.6	1170.0	1191.3	1191.3
175°	1174.8	1173.3	1168.9	1185.2	1182.3
177.5°	1178.1	1175.8	1169.8	1179.2	1176.9
180°	1173.3	1173.3	1173.3	1173.3	1173.3

(END OF REPORT)