

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: P520441

Luminaire Tested: **SQ4-F-150U-125D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520441
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-150U-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

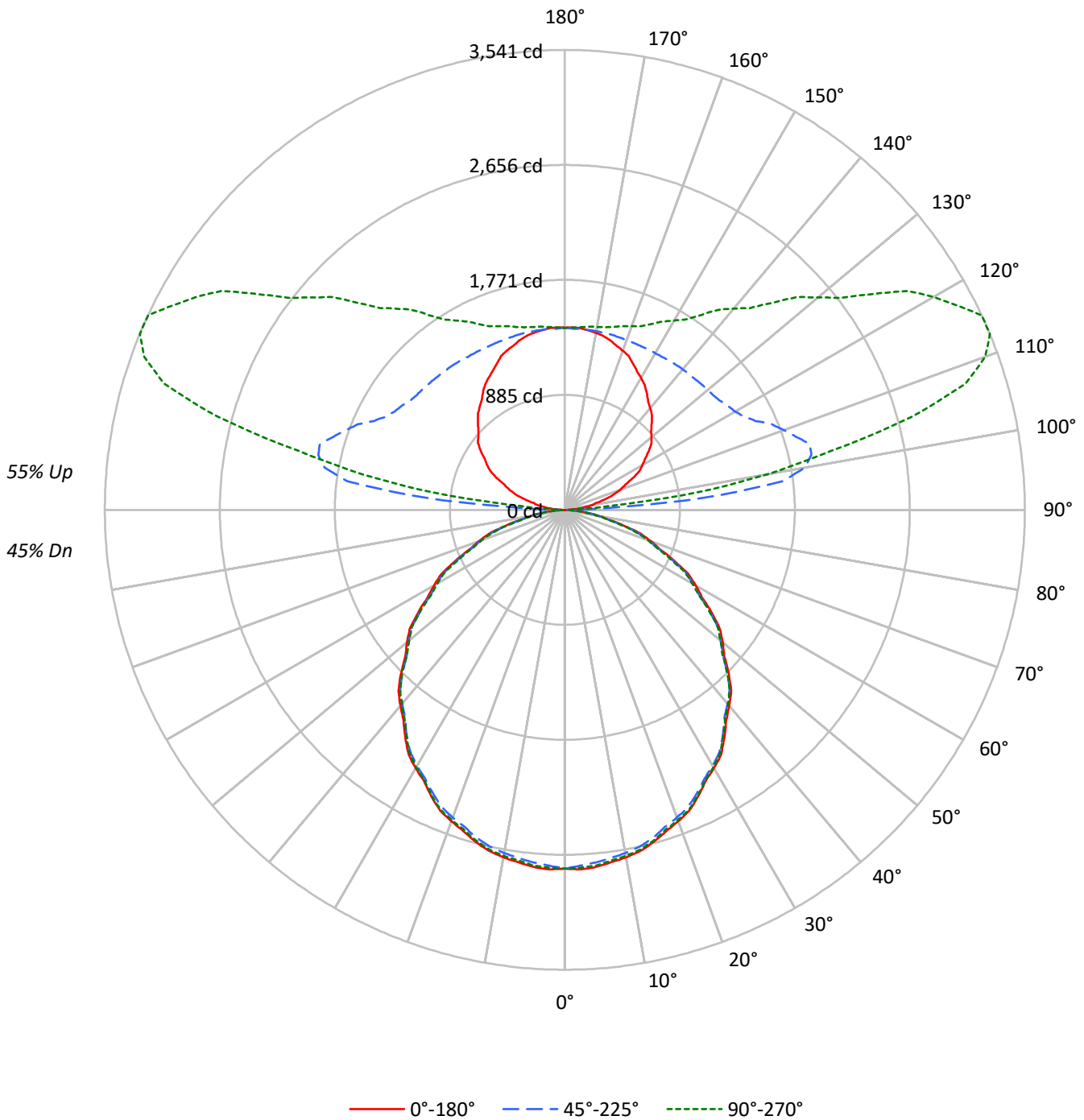
Lumens per Lamp: N/A
Luminaire Lumens: 16575.3 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 124.4
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	92	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	69	80	74	69	64	62	58	55	51	48	46	40	38	37	32
3	80	71	63	58	73	65	59	54	55	50	46	45	41	38	36	33	31	27
4	73	63	55	49	67	58	51	45	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	17
7	57	45	37	31	52	42	35	29	35	30	26	29	25	22	24	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	27	22	19	22	19	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

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	1.6
10°-20°	742.3	4.5
20°-30°	1115.2	6.7
30°-40°	1330.7	8.0
40°-50°	1364.0	8.2
50°-60°	1215.8	7.3
60°-70°	905.0	5.5
70°-80°	490.3	3.0
80°-90°	115.5	0.7
90°-100°	651.3	3.9
100°-110°	1761.0	10.6
110°-120°	1851.5	11.2
120°-130°	1503.9	9.1
130°-140°	1179.7	7.1
140°-150°	905.4	5.5
150°-160°	651.2	3.9
160°-170°	397.8	2.4
170°-180°	134.1	0.8
0°-30°	2118.2	12.8
0°-40°	3448.8	20.8
0°-60°	6028.6	36.4
0°-90°	7539.4	45.5
90°-120°	4263.8	25.7
90°-150°	7852.8	47.4
90°-180°	9036.0	54.5
0°-180°	16575.3	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	20	21	20	9
95°	101	355	1083	560	333	106
105°	327	506	1954	2882	2764	345
115°	576	705	1620	3137	3541	569
125°	789	904	1460	2464	2895	703
135°	946	1058	1421	1990	2252	731
145°	1100	1182	1402	1703	1833	688
155°	1242	1290	1390	1528	1578	573
165°	1352	1365	1396	1450	1457	381
175°	1403	1402	1397	1415	1412	133
180°	1402	1402	1402	1402	1402	

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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	27.1	24.8	22.2
90°	3.0	9.0	19.6	21.1	19.6
92.5°	42.9	156.1	308.0	133.7	96.9
95°	101.1	354.8	1083.1	560.5	333.4
97.5°	162.4	406.9	1688.4	1397.3	1026.1
100°	208.1	427.9	1876.7	1957.1	1582.5
102.5°	250.4	457.2	1943.1	2381.8	2101.5
105°	327.3	505.8	1953.6	2881.7	2763.7
107.5°	398.6	561.4	1868.2	3193.7	3232.9
110°	454.1	601.6	1792.3	3277.4	3444.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	503.6	641.6	1722.2	3260.7	3540.7
115°	576.3	704.6	1620.2	3136.6	3540.7
117.5°	647.5	767.9	1552.9	2946.7	3405.0
120°	690.9	808.9	1513.1	2810.6	3278.2
122.5°	732.0	847.6	1489.0	2664.7	3135.8
125°	789.0	904.1	1460.3	2464.3	2895.0
127.5°	841.5	954.5	1443.4	2300.8	2679.5
130°	870.5	987.0	1436.1	2199.8	2542.0
132.5°	900.7	1015.9	1428.9	2108.6	2423.7
135°	945.9	1058.0	1421.1	1989.7	2252.3
137.5°	991.5	1097.3	1414.4	1893.4	2107.2
140°	1022.8	1121.7	1412.0	1831.2	2021.5
142.5°	1053.0	1145.9	1407.2	1775.2	1941.9
145°	1099.7	1182.3	1401.5	1703.1	1832.9
147.5°	1142.3	1215.4	1394.9	1637.8	1737.6
150°	1173.7	1238.6	1392.5	1602.4	1682.1
152.5°	1202.7	1259.3	1391.3	1569.5	1635.0
155°	1241.6	1290.3	1389.5	1527.9	1578.0
157.5°	1282.0	1315.9	1389.8	1498.8	1531.8
160°	1305.0	1332.9	1391.0	1480.5	1504.1
162.5°	1323.1	1346.3	1392.2	1465.8	1483.5
165°	1351.7	1365.0	1395.5	1449.9	1457.3
167.5°	1371.4	1380.4	1395.8	1436.2	1439.8
170°	1383.4	1387.9	1397.0	1430.1	1430.1
172.5°	1393.1	1393.9	1397.0	1422.9	1421.7
175°	1403.0	1401.5	1397.0	1415.0	1412.0
177.5°	1406.3	1402.7	1396.7	1408.7	1405.1
180°	1401.5	1401.5	1401.5	1401.5	1401.5

(END OF REPORT)