

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: P520454

Luminaire Tested: **SQ4-F-150U-125D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520454
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-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

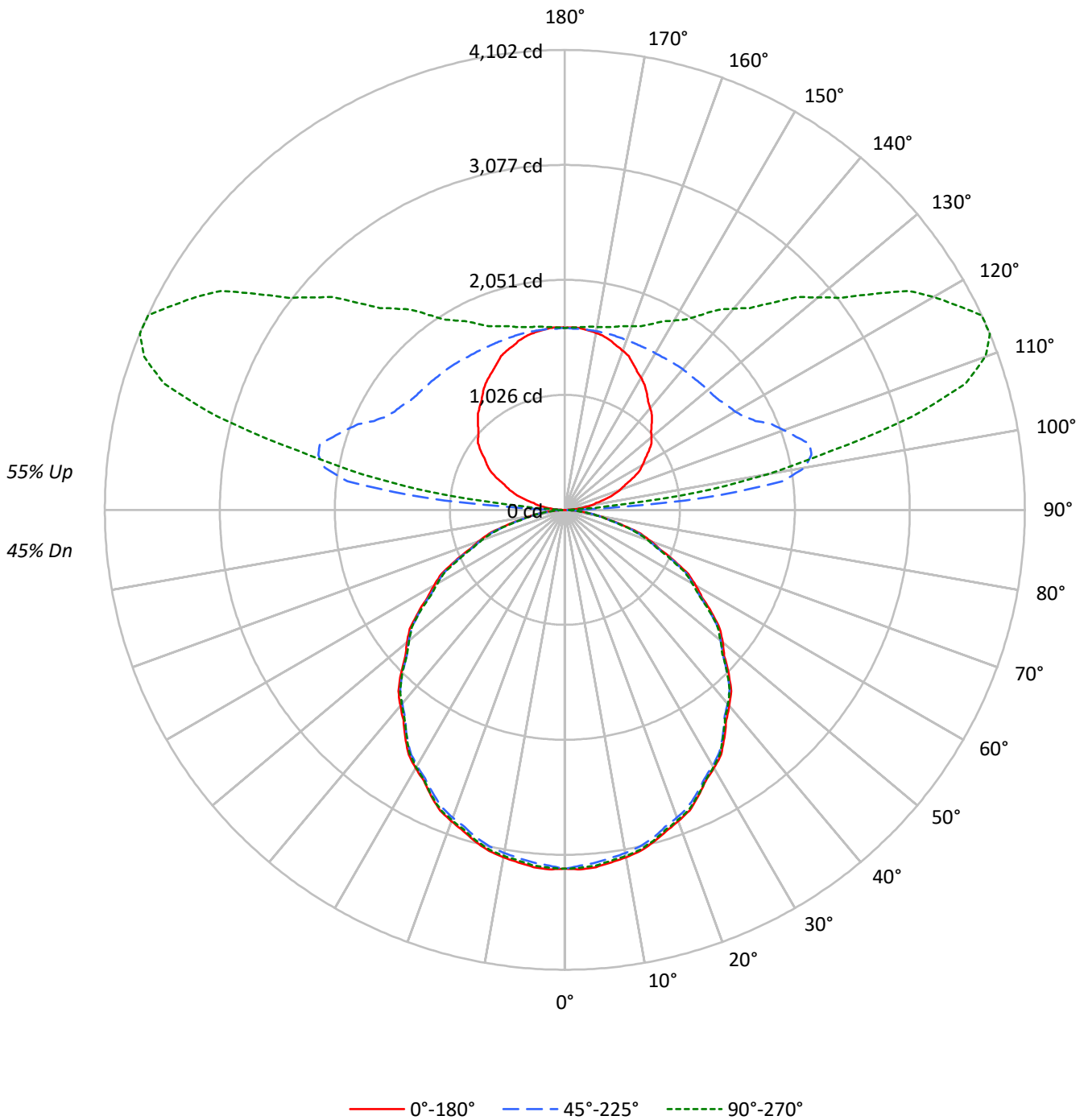
Lumens per Lamp: N/A
Luminaire Lumens: 19203.0 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 167.3
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°	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	1.6
10°-20°	860.0	4.5
20°-30°	1292.0	6.7
30°-40°	1541.6	8.0
40°-50°	1580.2	8.2
50°-60°	1408.5	7.3
60°-70°	1048.5	5.5
70°-80°	568.0	3.0
80°-90°	133.8	0.7
90°-100°	754.6	3.9
100°-110°	2040.2	10.6
110°-120°	2145.0	11.2
120°-130°	1742.3	9.1
130°-140°	1366.7	7.1
140°-150°	1049.0	5.5
150°-160°	754.4	3.9
160°-170°	460.8	2.4
170°-180°	155.4	0.8
0°-30°	2453.9	12.8
0°-40°	3995.6	20.8
0°-60°	6984.2	36.4
0°-90°	8734.6	45.5
90°-120°	4939.8	25.7
90°-150°	9097.8	47.4
90°-180°	10468.0	54.5
0°-180°	19203.0	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	23	24	23	10
95°	117	411	1255	650	386	123
105°	379	586	2263	3339	3202	399
115°	668	816	1877	3634	4102	659
125°	914	1047	1692	2855	3354	815
135°	1096	1226	1646	2305	2609	847
145°	1274	1370	1624	1973	2124	797
155°	1438	1495	1610	1770	1828	663
165°	1566	1581	1617	1680	1688	441
175°	1625	1624	1618	1639	1636	154
180°	1624	1624	1624	1624	1624	

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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	31.3	28.8	25.7
90°	3.5	10.4	22.7	24.4	22.7
92.5°	49.6	180.9	356.9	154.9	112.2
95°	117.1	411.0	1254.9	649.5	386.3
97.5°	188.0	471.4	1956.0	1618.7	1188.8
100°	241.2	495.9	2174.2	2267.5	1833.4
102.5°	290.1	529.8	2251.1	2759.3	2434.6
105°	379.3	586.1	2263.4	3338.6	3201.9
107.5°	461.7	650.4	2164.4	3700.0	3745.4
110°	526.0	696.9	2076.4	3797.0	3990.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	583.4	743.3	1995.3	3777.6	4102.0
115°	667.7	816.4	1877.1	3633.7	4102.0
117.5°	750.2	889.6	1799.1	3413.9	3944.7
120°	800.5	937.2	1753.0	3256.2	3797.9
122.5°	848.0	981.9	1725.1	3087.1	3632.9
125°	914.0	1047.3	1691.9	2854.9	3354.0
127.5°	974.9	1105.8	1672.3	2665.5	3104.4
130°	1008.5	1143.5	1663.9	2548.5	2944.9
132.5°	1043.4	1177.0	1655.5	2442.9	2807.9
135°	1095.8	1225.7	1646.4	2305.2	2609.4
137.5°	1148.6	1271.4	1638.7	2193.5	2441.2
140°	1185.0	1299.4	1635.9	2121.5	2341.9
142.5°	1220.0	1327.6	1630.3	2056.6	2249.7
145°	1274.1	1369.9	1623.7	1973.1	2123.5
147.5°	1323.4	1408.2	1616.0	1897.5	2013.1
150°	1359.8	1434.9	1613.2	1856.4	1948.7
152.5°	1393.3	1458.9	1611.8	1818.3	1894.2
155°	1438.4	1494.8	1609.7	1770.0	1828.2
157.5°	1485.2	1524.6	1610.0	1736.4	1774.7
160°	1511.8	1544.3	1611.4	1715.2	1742.5
162.5°	1532.8	1559.8	1612.8	1698.2	1718.7
165°	1566.0	1581.4	1616.6	1679.8	1688.3
167.5°	1588.8	1599.3	1617.0	1663.9	1668.0
170°	1602.6	1607.8	1618.4	1656.9	1656.9
172.5°	1613.9	1614.9	1618.4	1648.4	1647.1
175°	1625.4	1623.7	1618.4	1639.4	1635.9
177.5°	1629.3	1625.2	1618.0	1631.9	1627.9
180°	1623.7	1623.7	1623.7	1623.7	1623.7

(END OF REPORT)