

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: P563377

Luminaire Tested: **SQ4-PP3-075U-050D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563377
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-050D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14982.1 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

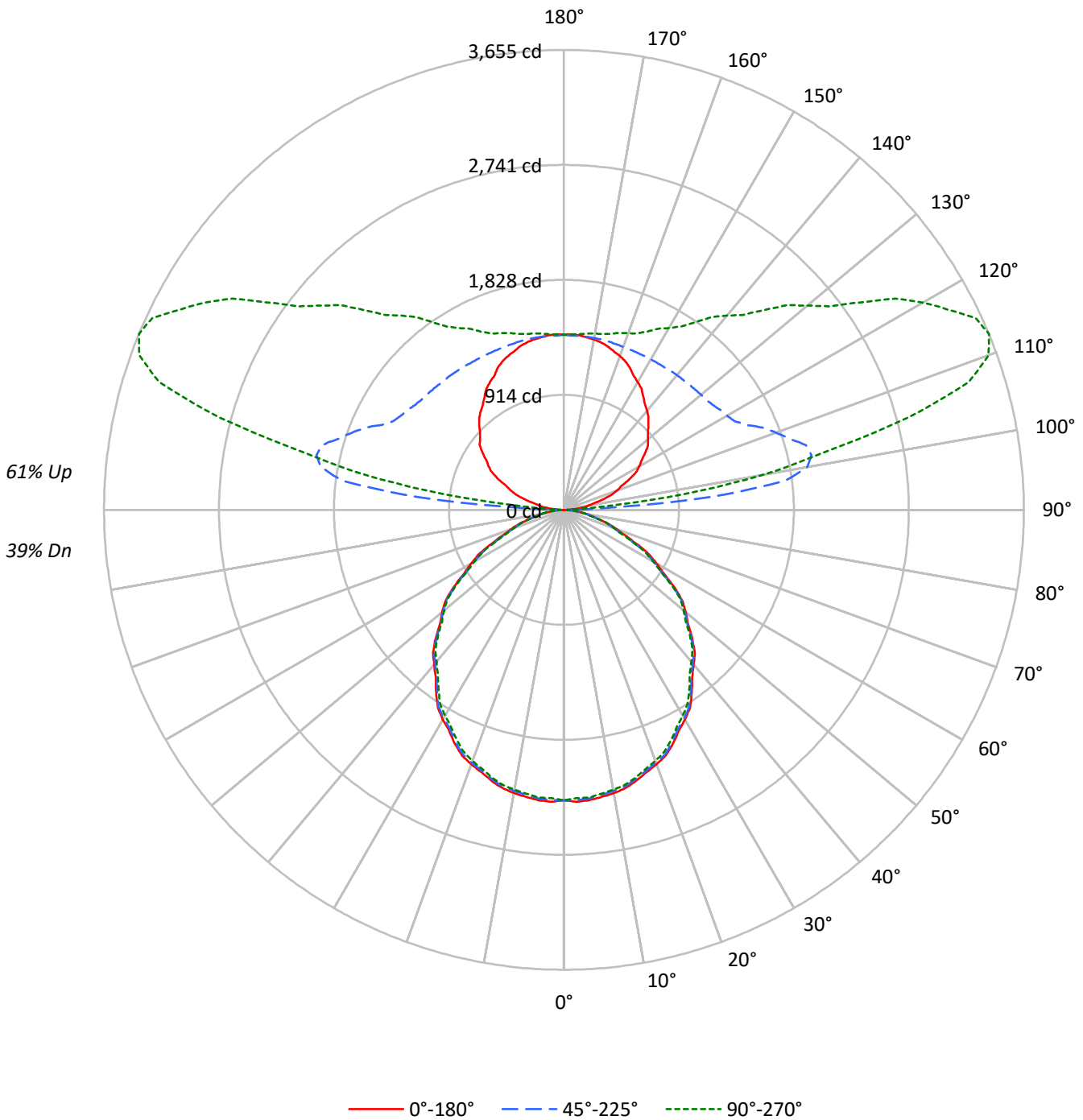
Input Watts (W): 107.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7098	7098	7098
5°	7150	7106	7081
10°	7138	7087	7055
15°	7091	7052	7013
20°	7043	7004	6951
25°	6960	6912	6843
30°	6831	6795	6709
35°	6652	6607	6523
40°	6439	6399	6326
45°	6263	6219	6158
50°	6038	6000	5942
55°	5726	5650	5607
60°	5213	5063	5039
65°	4593	4401	4387
70°	3965	3801	3801
75°	3413	3365	3316
80°	3009	3044	2974
85°	2354	2569	2569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.2	1.5
10°-20°	623.1	4.2
20°-30°	933.4	6.2
30°-40°	1094.8	7.3
40°-50°	1098.2	7.3
50°-60°	936.8	6.3
60°-70°	611.0	4.1
70°-80°	306.5	2.0
80°-90°	88.4	0.6
90°-100°	656.8	4.4
100°-110°	1807.0	12.1
110°-120°	1865.1	12.4
120°-130°	1494.3	10.0
130°-140°	1173.7	7.8
140°-150°	899.4	6.0
150°-160°	646.7	4.3
160°-170°	395.4	2.6
170°-180°	133.3	0.9
0°-30°	1774.7	11.8
0°-40°	2869.5	19.2
0°-60°	4904.5	32.7
0°-90°	5910.4	39.4
90°-120°	4328.8	28.9
90°-150°	7896.3	52.7
90°-180°	9072.0	60.6
0°-180°	14982.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2308	2308	2308	2308	2308	
5°	2316	2294	2302	2294	2294	220
15°	2227	2205	2215	2207	2203	628
25°	2051	2027	2037	2019	2017	943
35°	1772	1754	1760	1740	1738	1107
45°	1440	1430	1430	1416	1416	1109
55°	1068	1064	1054	1048	1046	949
65°	631	619	605	601	603	630
75°	287	287	283	281	279	312
85°	67	73	73	73	73	78
90°	3	12	21	27	27	9
95°	98	358	1161	497	317	103
105°	323	497	1991	3032	2830	340
115°	572	696	1597	3180	3609	564
125°	788	898	1449	2451	2871	703
135°	951	1055	1407	1982	2243	734
145°	1099	1174	1387	1689	1819	689
155°	1244	1285	1378	1518	1561	572
165°	1345	1362	1384	1440	1449	379
175°	1392	1395	1387	1404	1401	132
180°	1392	1392	1392	1392	1392	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2307.9	2307.9	2307.9	2307.9	2307.9
2.5°	2322.4	2303.4	2307.9	2304.4	2294.9
5°	2316.0	2294.2	2301.8	2293.7	2293.7
7.5°	2300.2	2276.5	2284.0	2275.9	2275.5
10°	2285.6	2261.9	2269.4	2261.3	2259.3
12.5°	2264.6	2240.9	2250.0	2240.3	2239.9
15°	2227.0	2205.2	2214.8	2206.6	2202.7
17.5°	2184.5	2160.8	2172.4	2161.0	2159.4
20°	2152.1	2128.4	2140.0	2123.8	2123.8
22.5°	2113.3	2089.6	2102.8	2081.7	2081.7
25°	2051.0	2027.3	2036.8	2018.6	2016.6
27.5°	1977.0	1953.6	1963.6	1943.0	1942.6
30°	1923.6	1901.8	1913.4	1891.2	1889.2
32.5°	1865.3	1845.1	1853.6	1831.3	1829.3
35°	1771.9	1754.1	1759.7	1739.5	1737.5
37.5°	1673.6	1655.4	1661.8	1644.4	1643.6
40°	1604.0	1592.1	1593.9	1579.6	1575.7
42.5°	1539.3	1525.8	1527.5	1513.3	1512.6
45°	1440.1	1430.3	1430.0	1415.9	1415.9
47.5°	1335.0	1327.4	1325.3	1313.5	1313.1
50°	1262.1	1256.2	1254.1	1243.9	1241.9
52.5°	1186.1	1183.3	1176.4	1167.9	1167.5
55°	1068.0	1064.0	1053.8	1047.7	1045.7
57.5°	939.7	931.8	920.3	911.5	913.0
60°	847.5	839.6	823.2	819.2	819.2
62.5°	758.5	749.0	732.6	727.0	730.2
65°	631.1	619.2	604.8	600.8	602.8
67.5°	515.4	504.7	489.1	489.0	487.5
70°	440.9	435.0	422.7	422.7	422.7
72.5°	374.6	371.8	362.9	362.8	361.2
75°	287.2	287.2	283.2	281.1	279.1
77.5°	215.2	216.0	214.0	211.9	208.3
80°	169.9	173.9	171.9	169.9	167.9
82.5°	127.8	131.8	131.5	127.8	127.4
85°	66.7	72.7	72.8	72.8	72.8
87.5°	18.4	26.5	30.0	31.3	32.8
90°	3.0	11.7	20.7	26.7	26.7
92.5°	40.9	174.7	302.8	116.3	95.4
95°	97.8	358.5	1161.4	496.6	317.0
97.5°	159.4	397.5	1772.4	1365.6	963.5
100°	204.4	421.7	1964.3	1982.7	1617.7
102.5°	247.1	450.5	2014.1	2459.8	2124.9
105°	322.9	496.8	1991.0	3032.3	2829.5
107.5°	395.2	554.0	1877.8	3312.6	3372.9
110°	447.4	592.2	1792.5	3382.3	3590.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	494.8	635.0	1707.2	3337.4	3654.9
115°	571.8	696.4	1597.0	3180.0	3608.7
117.5°	645.3	760.0	1527.0	2959.0	3444.0
120°	690.3	800.4	1496.2	2793.5	3294.6
122.5°	730.6	840.7	1474.9	2648.3	3124.0
125°	788.1	898.2	1448.8	2450.9	2871.0
127.5°	842.6	947.5	1431.6	2286.2	2654.7
130°	871.1	978.3	1422.2	2188.3	2524.3
132.5°	904.3	1011.4	1415.0	2102.2	2405.8
135°	951.1	1055.4	1407.3	1982.1	2242.8
137.5°	994.9	1091.7	1400.8	1885.1	2100.0
140°	1028.1	1117.9	1398.4	1820.6	2014.7
142.5°	1056.5	1139.4	1393.7	1763.1	1929.4
145°	1099.2	1174.5	1386.6	1688.8	1819.2
147.5°	1144.8	1209.7	1383.0	1623.0	1727.3
150°	1173.3	1231.2	1380.7	1586.9	1668.1
152.5°	1199.3	1252.7	1378.3	1555.8	1623.0
155°	1244.4	1284.9	1377.7	1517.9	1561.4
157.5°	1277.0	1310.0	1377.7	1486.8	1517.0
160°	1300.7	1326.7	1377.7	1470.1	1493.3
162.5°	1319.6	1341.1	1380.1	1455.8	1474.3
165°	1345.1	1362.5	1383.6	1440.1	1448.8
167.5°	1362.9	1376.2	1386.6	1426.9	1429.3
170°	1374.7	1383.4	1386.6	1422.2	1422.2
172.5°	1384.2	1388.3	1386.6	1415.0	1412.7
175°	1392.5	1395.4	1386.6	1404.3	1401.4
177.5°	1394.9	1394.9	1385.4	1399.5	1394.9
180°	1392.5	1392.5	1392.5	1392.5	1392.5

(END OF REPORT)