

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: P563389

Luminaire Tested: **SQ4-PP3-075U-050D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563389
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-940-1D-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

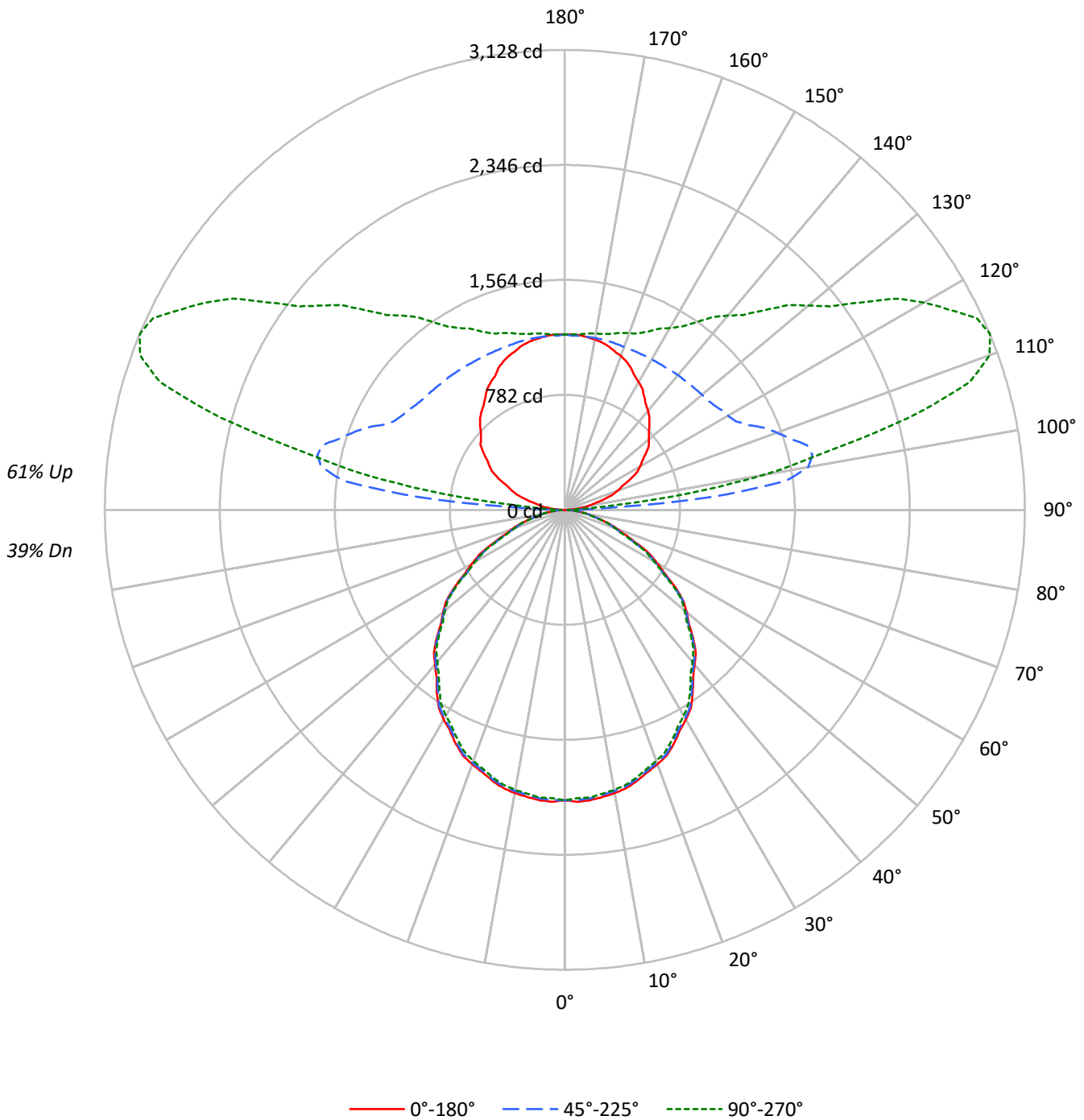
Lumens per Lamp: N/A
Luminaire Lumens: 12822.7 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

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°	6075	6075	6075
5°	6119	6082	6060
10°	6109	6065	6039
15°	6068	6035	6002
20°	6028	5994	5949
25°	5957	5916	5857
30°	5846	5816	5742
35°	5694	5654	5583
40°	5511	5476	5414
45°	5361	5323	5270
50°	5168	5135	5085
55°	4901	4836	4799
60°	4461	4334	4312
65°	3930	3767	3754
70°	3394	3253	3253
75°	2921	2880	2839
80°	2575	2605	2545
85°	2015	2198	2198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	1.5
10°-20°	533.3	4.2
20°-30°	798.8	6.2
30°-40°	937.0	7.3
40°-50°	939.9	7.3
50°-60°	801.8	6.3
60°-70°	522.9	4.1
70°-80°	262.4	2.0
80°-90°	75.6	0.6
90°-100°	562.1	4.4
100°-110°	1546.5	12.1
110°-120°	1596.3	12.4
120°-130°	1279.0	10.0
130°-140°	1004.5	7.8
140°-150°	769.8	6.0
150°-160°	553.5	4.3
160°-170°	338.4	2.6
170°-180°	114.1	0.9
0°-30°	1518.9	11.8
0°-40°	2455.9	19.2
0°-60°	4197.6	32.7
0°-90°	5058.5	39.4
90°-120°	3704.9	28.9
90°-150°	6758.2	52.7
90°-180°	7764.0	60.5
0°-180°	12822.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1982	1964	1970	1963	1963	188
15°	1906	1887	1896	1889	1885	538
25°	1755	1735	1743	1728	1726	807
35°	1516	1501	1506	1489	1487	947
45°	1233	1224	1224	1212	1212	949
55°	914	911	902	897	895	812
65°	540	530	518	514	516	539
75°	246	246	242	241	239	267
85°	57	62	62	62	62	67
90°	2	10	18	23	23	8
95°	84	307	994	425	271	88
105°	276	425	1704	2595	2422	291
115°	489	596	1367	2722	3089	483
125°	674	769	1240	2098	2457	602
135°	814	903	1204	1696	1920	628
145°	941	1005	1187	1445	1557	590
155°	1065	1100	1179	1299	1336	489
165°	1151	1166	1184	1233	1240	324
175°	1192	1194	1187	1202	1199	113
180°	1192	1192	1192	1192	1192	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.2	1975.2	1975.2	1975.2	1975.2
2.5°	1987.7	1971.4	1975.2	1972.3	1964.2
5°	1982.2	1963.5	1970.0	1963.1	1963.1
7.5°	1968.7	1948.3	1954.8	1947.9	1947.5
10°	1956.2	1935.9	1942.3	1935.4	1933.7
12.5°	1938.2	1917.9	1925.7	1917.4	1917.1
15°	1906.0	1887.4	1895.6	1888.6	1885.2
17.5°	1869.6	1849.3	1859.2	1849.5	1848.2
20°	1841.9	1821.6	1831.5	1817.7	1817.7
22.5°	1808.7	1788.4	1799.7	1781.7	1781.7
25°	1755.4	1735.1	1743.3	1727.6	1725.9
27.5°	1692.0	1672.0	1680.6	1662.9	1662.6
30°	1646.3	1627.7	1637.7	1618.6	1616.9
32.5°	1596.5	1579.2	1586.4	1567.3	1565.6
35°	1516.5	1501.2	1506.1	1488.7	1487.1
37.5°	1432.3	1416.8	1422.3	1407.4	1406.7
40°	1372.8	1362.6	1364.1	1351.9	1348.6
42.5°	1317.4	1305.9	1307.4	1295.2	1294.5
45°	1232.6	1224.1	1223.9	1211.8	1211.8
47.5°	1142.6	1136.1	1134.2	1124.2	1123.9
50°	1080.2	1075.2	1073.3	1064.6	1062.9
52.5°	1015.1	1012.8	1006.8	999.6	999.2
55°	914.0	910.7	901.9	896.7	895.0
57.5°	804.3	797.5	787.7	780.1	781.4
60°	725.3	718.6	704.6	701.1	701.1
62.5°	649.2	641.1	627.0	622.2	624.9
65°	540.1	530.0	517.6	514.2	515.9
67.5°	441.1	432.0	418.6	418.6	417.2
70°	377.4	372.3	361.8	361.8	361.8
72.5°	320.6	318.2	310.6	310.5	309.2
75°	245.8	245.8	242.4	240.6	238.9
77.5°	184.2	184.9	183.2	181.4	178.3
80°	145.4	148.8	147.1	145.4	143.7
82.5°	109.4	112.8	112.5	109.4	109.1
85°	57.1	62.2	62.3	62.3	62.3
87.5°	15.7	22.6	25.7	26.8	28.1
90°	2.5	10.0	17.8	22.8	22.8
92.5°	35.0	149.5	259.2	99.5	81.7
95°	83.7	306.8	994.0	425.1	271.3
97.5°	136.4	340.2	1516.9	1168.8	824.6
100°	175.0	360.9	1681.2	1696.9	1384.5
102.5°	211.5	385.5	1723.8	2105.3	1818.7
105°	276.4	425.2	1704.0	2595.2	2421.7
107.5°	338.3	474.1	1607.2	2835.2	2886.7
110°	382.9	506.9	1534.1	2894.8	3073.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	423.5	543.5	1461.1	2856.4	3128.1
115°	489.4	596.0	1366.8	2721.6	3088.6
117.5°	552.3	650.5	1306.9	2532.5	2947.6
120°	590.8	685.1	1280.6	2390.8	2819.8
122.5°	625.3	719.5	1262.3	2266.6	2673.7
125°	674.5	768.7	1240.0	2097.7	2457.2
127.5°	721.2	810.9	1225.3	1956.7	2272.1
130°	745.5	837.3	1217.2	1872.9	2160.5
132.5°	773.9	865.7	1211.1	1799.2	2059.1
135°	814.0	903.2	1204.5	1696.4	1919.6
137.5°	851.5	934.3	1198.9	1613.4	1797.4
140°	879.9	956.8	1196.9	1558.2	1724.3
142.5°	904.3	975.2	1192.8	1509.0	1651.3
145°	940.8	1005.2	1186.7	1445.4	1557.0
147.5°	979.8	1035.4	1183.7	1389.1	1478.4
150°	1004.2	1053.8	1181.7	1358.2	1427.6
152.5°	1026.5	1072.1	1179.6	1331.6	1389.1
155°	1065.0	1099.7	1179.1	1299.2	1336.4
157.5°	1092.9	1121.2	1179.1	1272.5	1298.3
160°	1113.2	1135.5	1179.1	1258.2	1278.0
162.5°	1129.4	1147.8	1181.2	1245.9	1261.8
165°	1151.2	1166.1	1184.2	1232.6	1240.0
167.5°	1166.5	1177.9	1186.7	1221.3	1223.3
170°	1176.6	1184.0	1186.7	1217.2	1217.2
172.5°	1184.7	1188.2	1186.7	1211.0	1209.1
175°	1191.8	1194.3	1186.7	1201.9	1199.4
177.5°	1193.8	1193.8	1185.7	1197.8	1193.8
180°	1191.8	1191.8	1191.8	1191.8	1191.8

(END OF REPORT)