

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: P564733

Luminaire Tested: **SQ4-PW1-075U-050D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564733
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-050D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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: 12767.5 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

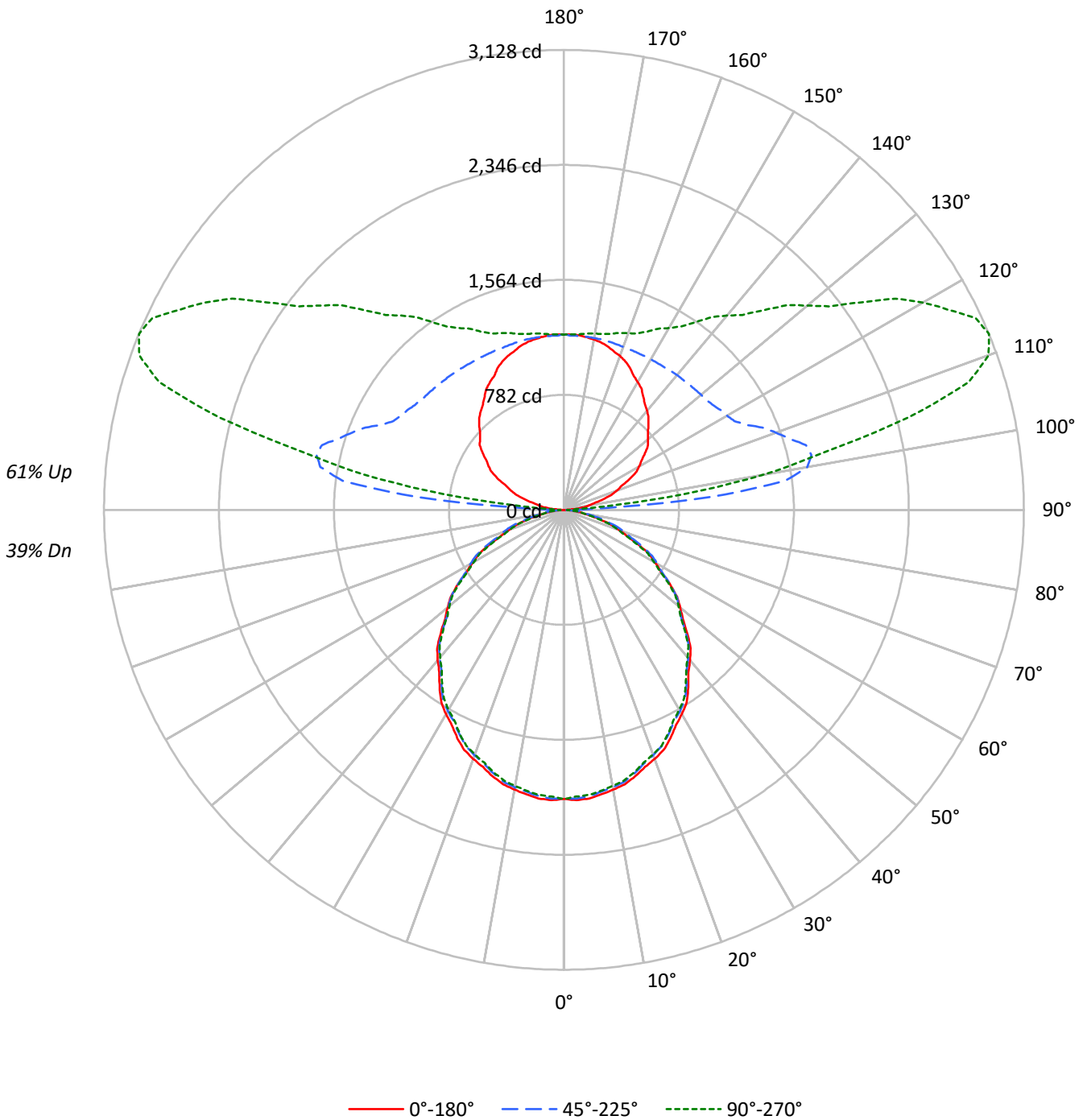
Input Watts (W): 107.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	24
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	41	60	50	44	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6044	6044	6044
5°	6083	6035	6009
10°	6035	5986	5953
15°	5971	5905	5883
20°	5899	5809	5797
25°	5817	5711	5694
30°	5694	5608	5571
35°	5532	5454	5422
40°	5360	5276	5256
45°	5151	5083	5061
50°	4938	4896	4863
55°	4707	4707	4633
60°	4420	4505	4346
65°	4045	4246	3944
70°	3565	3908	3472
75°	3045	3498	2962
80°	2361	2943	2393
85°	1528	2262	2015



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	1.4
10°-20°	522.5	4.1
20°-30°	775.0	6.1
30°-40°	906.9	7.1
40°-50°	902.8	7.1
50°-60°	779.6	6.1
60°-70°	561.2	4.4
70°-80°	294.3	2.3
80°-90°	76.0	0.6
90°-100°	562.1	4.4
100°-110°	1546.5	12.1
110°-120°	1596.3	12.5
120°-130°	1279.0	10.0
130°-140°	1004.5	7.9
140°-150°	769.8	6.0
150°-160°	553.5	4.3
160°-170°	338.4	2.7
170°-180°	114.1	0.9
0°-30°	1482.6	11.6
0°-40°	2389.4	18.7
0°-60°	4071.9	31.9
0°-90°	5003.3	39.2
90°-120°	3704.9	29.0
90°-150°	6758.2	52.9
90°-180°	7764.0	60.8
0°-180°	12767.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1965	1965	1965	1965	1965	
5°	1970	1948	1955	1950	1946	187
15°	1875	1852	1854	1851	1848	529
25°	1714	1686	1683	1673	1678	788
35°	1474	1453	1453	1439	1444	921
45°	1184	1174	1169	1165	1164	914
55°	878	876	878	866	864	783
65°	556	573	584	561	542	551
75°	256	280	294	275	249	275
85°	43	57	64	60	57	57
90°	2	10	18	23	23	7
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°	1965.3	1965.3	1965.3	1965.3	1965.3
2.5°	1976.4	1960.1	1965.3	1960.9	1951.5
5°	1970.5	1948.5	1954.9	1949.7	1946.3
7.5°	1950.4	1930.1	1934.8	1929.3	1927.2
10°	1932.4	1912.1	1916.8	1909.8	1906.4
12.5°	1911.6	1890.0	1894.7	1887.7	1885.7
15°	1875.3	1851.6	1854.5	1851.0	1847.6
17.5°	1833.0	1809.0	1809.5	1803.9	1803.2
20°	1802.5	1777.2	1774.8	1768.0	1771.4
22.5°	1769.3	1742.6	1740.2	1730.6	1735.4
25°	1714.2	1685.5	1683.1	1672.8	1677.9
27.5°	1650.5	1622.1	1622.1	1607.7	1613.1
30°	1603.4	1576.3	1579.2	1562.0	1568.8
32.5°	1553.6	1529.2	1530.7	1513.5	1520.3
35°	1473.6	1453.2	1452.8	1439.0	1444.1
37.5°	1391.8	1373.9	1371.0	1363.1	1364.5
40°	1335.0	1319.8	1314.2	1309.1	1309.1
42.5°	1275.5	1261.6	1256.1	1252.2	1250.9
45°	1184.4	1174.2	1168.8	1165.3	1163.6
47.5°	1094.3	1084.9	1080.1	1077.7	1076.0
50°	1032.0	1025.2	1023.3	1018.1	1016.4
52.5°	969.7	965.6	963.8	957.2	955.5
55°	877.9	876.2	877.9	865.7	864.0
57.5°	782.3	785.0	790.6	774.3	770.2
60°	718.6	725.4	732.4	713.2	706.5
62.5°	653.5	664.3	674.3	652.2	642.8
65°	555.8	572.8	583.5	560.6	542.0
67.5°	461.6	482.6	495.6	470.9	449.9
70°	396.5	420.2	434.6	409.8	386.1
72.5°	339.7	366.1	377.8	354.4	330.7
75°	256.3	280.0	294.4	274.7	249.3
77.5°	181.8	204.2	216.1	199.0	178.0
80°	133.3	157.0	166.2	152.0	135.1
82.5°	94.5	114.2	120.5	111.9	100.4
85°	43.3	56.8	64.1	60.5	57.1
87.5°	11.6	22.6	29.9	30.9	32.3
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)