

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: P564725

Luminaire Tested: **SQ4-PW1-075U-050D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564725
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

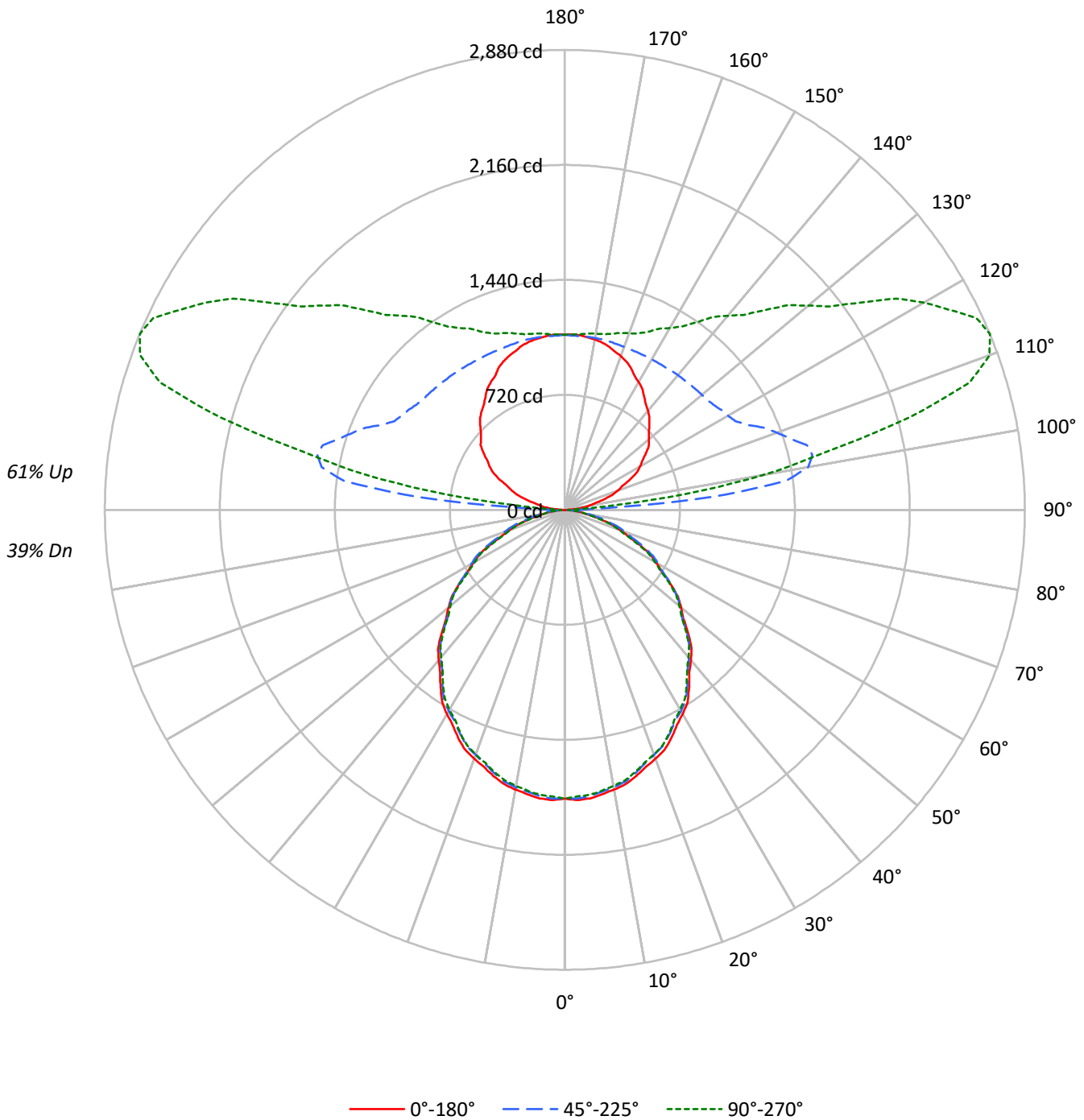
Lumens per Lamp: N/A
Luminaire Lumens: 11752.5 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

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°	5564	5564	5564
5°	5600	5555	5531
10°	5555	5510	5480
15°	5496	5435	5415
20°	5430	5347	5337
25°	5355	5257	5241
30°	5241	5162	5128
35°	5092	5021	4991
40°	4934	4857	4838
45°	4742	4679	4659
50°	4545	4507	4476
55°	4333	4333	4265
60°	4069	4147	4000
65°	3723	3908	3631
70°	3282	3598	3196
75°	2803	3220	2727
80°	2173	2710	2201
85°	1404	2082	1856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	1.4
10°-20°	481.0	4.1
20°-30°	713.4	6.1
30°-40°	834.8	7.1
40°-50°	831.0	7.1
50°-60°	717.6	6.1
60°-70°	516.6	4.4
70°-80°	270.9	2.3
80°-90°	69.9	0.6
90°-100°	517.4	4.4
100°-110°	1423.6	12.1
110°-120°	1469.4	12.5
120°-130°	1177.3	10.0
130°-140°	924.7	7.9
140°-150°	708.6	6.0
150°-160°	509.5	4.3
160°-170°	311.5	2.7
170°-180°	105.0	0.9
0°-30°	1364.7	11.6
0°-40°	2199.5	18.7
0°-60°	3748.1	31.9
0°-90°	4605.5	39.2
90°-120°	3410.4	29.0
90°-150°	6220.9	52.9
90°-180°	7147.0	60.8
0°-180°	11752.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1809	1809	1809	1809	1809	
5°	1814	1794	1800	1795	1792	172
15°	1726	1704	1707	1704	1701	487
25°	1578	1552	1549	1540	1544	726
35°	1356	1338	1337	1325	1329	848
45°	1090	1081	1076	1073	1071	841
55°	808	806	808	797	795	721
65°	512	527	537	516	499	507
75°	236	258	271	253	230	253
85°	40	52	59	56	53	53
90°	2	9	16	21	21	7
95°	77	282	915	391	250	81
105°	254	391	1569	2389	2229	268
115°	450	549	1258	2505	2843	445
125°	621	708	1141	1931	2262	554
135°	749	831	1109	1562	1767	578
145°	866	925	1092	1330	1433	543
155°	980	1012	1085	1196	1230	450
165°	1060	1073	1090	1135	1141	299
175°	1097	1099	1092	1106	1104	104
180°	1097	1097	1097	1097	1097	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1809.1	1809.1	1809.1	1809.1	1809.1
2.5°	1819.3	1804.3	1809.1	1805.0	1796.3
5°	1813.9	1793.6	1799.5	1794.7	1791.5
7.5°	1795.4	1776.7	1781.0	1775.9	1774.0
10°	1778.8	1760.1	1764.4	1758.0	1754.9
12.5°	1759.7	1739.7	1744.0	1737.6	1735.8
15°	1726.2	1704.4	1707.1	1703.8	1700.7
17.5°	1687.3	1665.2	1665.6	1660.5	1659.9
20°	1659.2	1635.9	1633.7	1627.4	1630.6
22.5°	1628.6	1604.0	1601.9	1593.0	1597.4
25°	1578.0	1551.5	1549.3	1539.8	1544.5
27.5°	1519.3	1493.1	1493.2	1479.9	1484.9
30°	1475.9	1451.0	1453.6	1437.8	1444.1
32.5°	1430.0	1407.6	1409.0	1393.2	1399.4
35°	1356.4	1337.7	1337.3	1324.6	1329.3
37.5°	1281.2	1264.7	1262.0	1254.7	1256.0
40°	1228.9	1214.9	1209.8	1205.0	1205.0
42.5°	1174.1	1161.3	1156.2	1152.7	1151.4
45°	1090.2	1080.9	1075.9	1072.7	1071.1
47.5°	1007.3	998.6	994.3	992.0	990.4
50°	950.0	943.7	942.0	937.2	935.6
52.5°	892.6	888.8	887.2	881.1	879.5
55°	808.1	806.5	808.1	796.9	795.4
57.5°	720.1	722.6	727.8	712.7	709.0
60°	661.5	667.7	674.2	656.5	650.3
62.5°	601.5	611.5	620.7	600.4	591.7
65°	511.6	527.2	537.1	516.0	498.9
67.5°	424.9	444.3	456.2	433.4	414.1
70°	365.0	386.8	400.1	377.3	355.4
72.5°	312.7	337.0	347.8	326.3	304.4
75°	235.9	257.7	271.0	252.9	229.5
77.5°	167.4	187.9	198.9	183.2	163.9
80°	122.7	144.5	153.0	139.9	124.3
82.5°	87.0	105.1	110.9	103.0	92.4
85°	39.8	52.3	59.0	55.7	52.6
87.5°	10.7	20.8	27.5	28.5	29.7
90°	2.3	9.2	16.3	21.0	21.0
92.5°	32.2	137.7	238.6	91.6	75.2
95°	77.0	282.4	915.0	391.3	249.8
97.5°	125.6	313.2	1396.3	1075.9	759.1
100°	161.1	332.2	1547.6	1562.0	1274.5
102.5°	194.7	354.9	1586.8	1937.9	1674.1
105°	254.4	391.4	1568.6	2388.9	2229.1
107.5°	311.4	436.5	1479.4	2609.8	2657.2
110°	352.5	466.6	1412.2	2664.7	2829.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	389.8	500.3	1345.0	2629.3	2879.5
115°	450.5	548.6	1258.1	2505.3	2843.0
117.5°	508.4	598.8	1203.0	2331.2	2713.3
120°	543.9	630.6	1178.8	2200.8	2595.6
122.5°	575.6	662.3	1162.0	2086.4	2461.2
125°	620.9	707.6	1141.4	1930.9	2261.8
127.5°	663.8	746.5	1127.9	1801.1	2091.4
130°	686.3	770.7	1120.4	1724.0	1988.7
132.5°	712.4	796.8	1114.8	1656.2	1895.4
135°	749.3	831.4	1108.7	1561.6	1767.0
137.5°	783.8	860.0	1103.6	1485.1	1654.5
140°	810.0	880.7	1101.7	1434.3	1587.2
142.5°	832.4	897.6	1098.0	1389.0	1520.0
145°	866.0	925.3	1092.4	1330.5	1433.2
147.5°	901.9	953.1	1089.6	1278.7	1360.8
150°	924.3	970.0	1087.7	1250.2	1314.1
152.5°	944.9	986.9	1085.9	1225.7	1278.7
155°	980.4	1012.3	1085.4	1195.9	1230.1
157.5°	1006.0	1032.1	1085.4	1171.4	1195.1
160°	1024.7	1045.2	1085.4	1158.2	1176.4
162.5°	1039.6	1056.5	1087.3	1146.9	1161.5
165°	1059.7	1073.4	1090.1	1134.6	1141.4
167.5°	1073.7	1084.2	1092.4	1124.2	1126.0
170°	1083.1	1089.9	1092.4	1120.4	1120.4
172.5°	1090.5	1093.7	1092.4	1114.8	1112.9
175°	1097.1	1099.3	1092.4	1106.4	1104.1
177.5°	1098.9	1098.9	1091.5	1102.6	1098.9
180°	1097.1	1097.1	1097.1	1097.1	1097.1

(END OF REPORT)