

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: P564053

Luminaire Tested: **SQ4-PR1-075U-050D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564053
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-050D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 11775.9 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

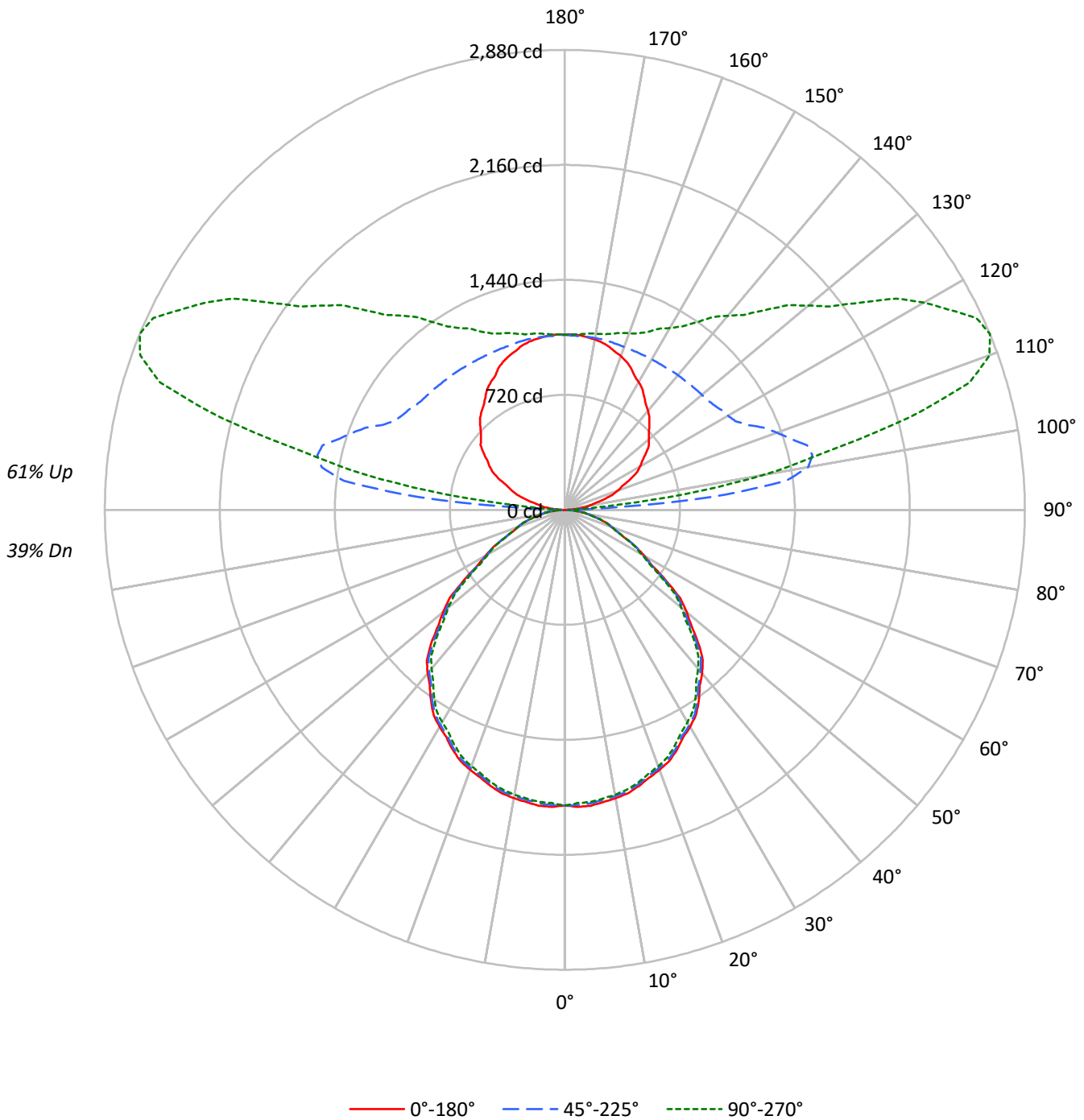
Input Watts (W): 107.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	39	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28
3	80	71	63	58	72	64	58	53	53	49	45	42	39	37	33	31	29	24
4	73	63	55	49	66	57	51	45	47	42	38	38	34	32	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5691	5691	5691
5°	5742	5698	5669
10°	5724	5684	5655
15°	5699	5664	5633
20°	5670	5634	5592
25°	5630	5593	5528
30°	5570	5530	5451
35°	5487	5439	5362
40°	5362	5305	5209
45°	5144	5053	4949
50°	4759	4644	4553
55°	4153	4059	3974
60°	3500	3470	3402
65°	3027	3039	3016
70°	2780	2795	2795
75°	2670	2670	2689
80°	2513	2541	2513
85°	2025	2251	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	1.5
10°-20°	500.7	4.3
20°-30°	755.2	6.4
30°-40°	899.8	7.6
40°-50°	887.1	7.5
50°-60°	678.0	5.8
60°-70°	419.6	3.6
70°-80°	238.3	2.0
80°-90°	75.3	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	2.6
170°-180°	105.0	0.9
0°-30°	1430.8	12.2
0°-40°	2330.6	19.8
0°-60°	3895.7	33.1
0°-90°	4628.9	39.3
90°-120°	3410.4	29.0
90°-150°	6220.9	52.8
90°-180°	7147.0	60.7
0°-180°	11775.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1850	1850	1850	1850	1850	
5°	1860	1840	1846	1839	1836	176
15°	1790	1771	1779	1772	1769	505
25°	1659	1639	1648	1630	1629	764
35°	1462	1444	1449	1430	1428	912
45°	1183	1167	1162	1141	1138	906
55°	775	762	757	744	741	694
65°	416	413	418	414	414	421
75°	225	225	225	226	226	237
85°	57	60	64	64	64	67
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°	1850.5	1850.5	1850.5	1850.5	1850.5
2.5°	1862.0	1845.8	1850.5	1846.5	1837.8
5°	1860.1	1839.8	1845.7	1839.3	1836.2
7.5°	1845.7	1825.8	1831.7	1825.3	1823.4
10°	1833.0	1814.3	1820.2	1813.8	1810.7
12.5°	1818.9	1799.0	1806.2	1798.5	1795.4
15°	1789.9	1771.2	1778.8	1772.3	1769.2
17.5°	1758.1	1738.1	1745.6	1738.2	1734.2
20°	1732.6	1713.9	1721.4	1710.2	1708.7
22.5°	1704.5	1685.8	1693.4	1678.4	1678.0
25°	1659.2	1639.0	1648.1	1630.5	1629.0
27.5°	1605.4	1586.7	1594.2	1576.3	1574.4
30°	1568.4	1549.7	1557.2	1538.0	1534.9
32.5°	1526.3	1508.9	1515.2	1496.0	1494.1
35°	1461.6	1444.5	1448.8	1429.7	1428.1
37.5°	1388.0	1372.4	1374.9	1353.8	1352.3
40°	1335.7	1320.1	1321.3	1299.0	1297.4
42.5°	1278.3	1262.7	1261.4	1239.1	1237.5
45°	1182.7	1167.1	1161.9	1141.2	1138.0
47.5°	1073.6	1058.1	1048.5	1031.5	1029.3
50°	994.6	979.0	970.7	956.2	951.6
52.5°	909.2	893.6	886.5	873.3	868.7
55°	774.6	762.2	757.1	744.3	741.2
57.5°	646.8	638.4	636.9	624.5	623.2
60°	569.0	564.3	564.2	553.1	553.1
62.5°	502.7	499.3	501.8	494.4	493.2
65°	416.0	412.9	417.6	414.4	414.4
67.5°	347.5	347.5	350.3	349.1	349.1
70°	309.2	309.2	310.8	310.8	310.8
72.5°	274.8	273.5	277.7	277.6	276.4
75°	224.7	224.7	224.7	226.3	226.3
77.5°	175.0	175.3	176.6	176.3	175.0
80°	141.9	143.4	143.5	141.9	141.9
82.5°	108.7	110.3	110.3	110.0	108.7
85°	57.4	60.5	63.8	63.8	63.8
87.5°	17.0	23.4	28.8	29.7	28.4
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)