

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Brand: CORELITE

Report Number: P937615

Luminaire Tested: SQ4-FB-100U-100D-835-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937615
REPORT IS A COMBINATION OF REPORTS P933575 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-100U-100D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

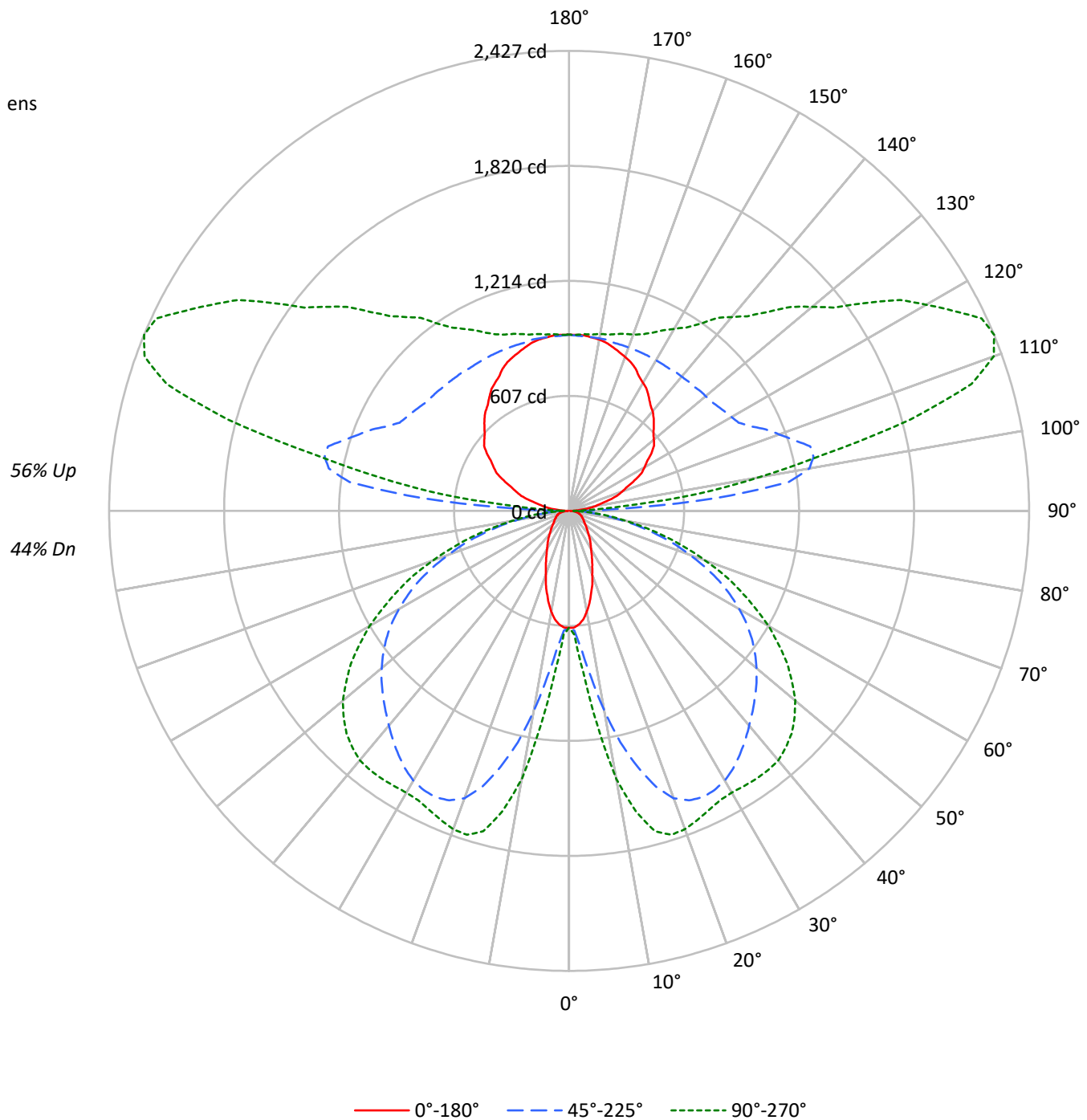
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10798.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 87
Input Voltage (V): NR
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





TEST NUMBER: P937615

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	0.7
10°-20°	353.4	3.3
20°-30°	618.1	5.7
30°-40°	795.6	7.4
40°-50°	888.7	8.2
50°-60°	851.2	7.9
60°-70°	674.5	6.2
70°-80°	396.7	3.7
80°-90°	113.7	1.1
90°-100°	453.1	4.2
100°-110°	1191.4	11.0
110°-120°	1235.3	11.4
120°-130°	990.9	9.2
130°-140°	777.5	7.2
140°-150°	596.7	5.5
150°-160°	429.8	4.0
160°-170°	263.0	2.4
170°-180°	88.8	0.8
0°-30°	1051.1	9.7
0°-40°	1846.8	17.1
0°-60°	3586.6	33.2
0°-90°	4771.6	44.2
90°-120°	2879.8	26.7
90°-150°	5244.9	48.6
90°-180°	6026.0	55.8
0°-180°	10798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	616	616	616	616	616	
5°	600	644	725	820	850	55
15°	450	830	1399	1696	1750	125
25°	287	941	1667	1740	1742	132
35°	194	900	1570	1659	1724	121
45°	133	717	1387	1589	1661	103
55°	95	456	1177	1367	1405	87
65°	75	242	874	983	997	75
75°	56	149	480	527	529	58
85°	20	46	119	131	133	21
90°	6	18	47	24	24	6
95°	60	235	780	402	274	67
105°	215	325	1317	2000	1866	228
115°	381	463	1055	2104	2402	377
125°	530	595	960	1622	1913	471
135°	632	696	930	1309	1484	489
145°	733	780	918	1117	1204	459
155°	829	852	918	1008	1037	381
165°	894	906	918	954	966	252
175°	930	930	924	936	936	88
180°	930	930	930	930	930	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3
2.5°	616.3	616.3	620.3	622.3	626.2	628.2	632.2	636.2	648.0	650.0	654.0
5°	600.5	608.4	634.2	644.1	671.8	709.5	725.3	751.1	804.6	820.5	830.4
7.5°	576.7	594.5	658.0	673.8	743.2	842.3	883.9	939.4	1024.6	1066.2	1099.9
10°	539.0	576.7	689.7	727.3	840.3	990.9	1068.2	1145.5	1274.3	1331.8	1353.6
12.5°	497.4	558.9	723.4	774.9	937.4	1157.4	1250.5	1335.7	1482.4	1559.7	1571.6
15°	449.9	533.1	755.1	830.4	1040.4	1296.1	1399.2	1504.2	1640.9	1696.4	1710.3
17.5°	408.3	513.3	784.8	864.1	1119.7	1421.0	1526.0	1613.2	1724.2	1761.8	1771.7
20°	356.7	481.6	804.6	907.7	1203.0	1512.1	1613.2	1680.6	1755.9	1779.7	1783.6
22.5°	319.1	447.9	816.5	923.5	1258.4	1567.6	1652.8	1706.3	1757.9	1765.8	1767.8
25°	287.4	410.2	814.5	941.4	1306.0	1601.3	1666.7	1706.3	1736.1	1740.0	1740.0
27.5°	257.6	368.6	806.6	945.3	1341.7	1609.2	1660.7	1688.5	1702.4	1710.3	1710.3
30°	231.9	329.0	786.8	937.4	1357.5	1601.3	1642.9	1656.8	1670.7	1682.5	1688.5
32.5°	212.1	291.3	757.0	921.5	1359.5	1581.5	1611.2	1619.1	1638.9	1666.7	1676.6
35°	194.2	253.7	723.4	899.7	1347.6	1549.8	1569.6	1577.5	1617.1	1658.8	1672.6
37.5°	176.4	225.9	679.8	862.1	1329.8	1512.1	1526.0	1539.9	1601.3	1650.8	1666.7
40°	158.5	202.1	628.2	820.5	1302.0	1466.5	1478.4	1500.2	1581.5	1638.9	1654.8
42.5°	144.7	182.3	572.7	776.9	1266.4	1415.0	1432.8	1464.5	1557.7	1619.1	1637.0
45°	132.8	162.5	513.3	717.4	1220.8	1361.5	1387.3	1430.9	1529.9	1589.4	1605.3
47.5°	120.9	148.6	451.9	656.0	1171.2	1308.0	1341.7	1391.2	1492.3	1549.8	1563.6
50°	111.0	134.8	390.4	590.6	1117.7	1250.5	1290.2	1341.7	1444.7	1498.2	1516.1
52.5°	103.1	122.9	332.9	525.2	1056.3	1191.1	1236.6	1290.2	1387.3	1438.8	1450.7
55°	95.1	113.0	283.4	455.8	992.9	1127.6	1177.2	1228.7	1323.8	1367.4	1375.4
57.5°	91.2	105.0	241.8	390.4	925.5	1056.3	1111.8	1159.4	1248.5	1282.2	1290.2
60°	85.2	99.1	210.1	334.9	852.2	988.9	1036.5	1084.0	1159.4	1187.1	1193.0
62.5°	79.3	95.1	186.3	281.4	776.9	909.6	957.2	1000.8	1064.2	1084.0	1092.0
65°	75.3	91.2	168.5	241.8	699.6	826.4	874.0	911.6	963.2	983.0	986.9
67.5°	71.3	87.2	154.6	208.1	622.3	743.2	778.8	814.5	854.2	874.0	876.0
70°	65.4	83.2	142.7	184.3	543.0	648.0	677.8	715.4	747.1	757.0	763.0
72.5°	61.4	77.3	134.8	166.5	461.8	556.9	584.6	606.4	634.2	644.1	644.1
75°	55.5	69.4	126.8	148.6	378.5	455.8	479.6	501.4	523.2	527.2	521.2
77.5°	49.5	61.4	109.0	124.9	295.3	360.7	380.5	392.4	410.2	414.2	416.2
80°	41.6	53.5	85.2	97.1	214.0	265.6	279.4	289.3	305.2	305.2	309.2
82.5°	31.7	41.6	61.4	69.4	144.7	182.3	194.2	200.2	210.1	210.1	210.1
85°	19.8	25.8	39.6	45.6	87.2	111.0	118.9	120.9	128.8	130.8	130.8
87.5°	9.9	13.9	25.8	27.7	45.6	57.5	57.5	61.4	61.4	59.5	57.5
90°	6.2	11.2	16.2	17.5	27.5	40.8	47.4	42.1	31.6	23.7	23.7
92.5°	25.0	67.4	109.8	120.4	169.3	234.4	267.0	234.0	168.0	118.5	113.8
95°	59.9	137.5	215.2	234.6	416.6	659.2	780.5	696.5	528.4	402.4	388.1
97.5°	103.6	172.1	240.6	257.7	561.1	965.7	1168.0	1114.9	1008.7	929.0	901.8
100°	137.3	199.4	261.5	277.0	613.7	1062.6	1287.1	1291.0	1298.8	1304.6	1272.2
102.5°	166.0	224.0	281.9	296.4	637.9	1093.2	1320.8	1388.5	1523.8	1625.3	1597.6
105°	214.6	263.7	312.8	325.1	655.8	1096.7	1317.1	1468.8	1772.1	1999.6	1984.7
107.5°	264.5	310.3	356.1	367.5	659.1	1047.8	1242.2	1453.8	1876.9	2194.3	2197.9
110°	298.2	339.5	380.9	391.2	654.1	1004.6	1179.8	1416.3	1889.4	2244.2	2259.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	331.3	370.7	410.1	419.9	654.3	966.8	1123.0	1365.1	1849.3	2212.4	2236.2
115°	381.2	417.5	453.8	462.9	660.3	923.4	1055.0	1288.2	1754.7	2104.5	2137.6
117.5°	430.5	463.5	496.5	504.7	672.5	896.3	1008.2	1218.7	1639.6	1955.3	1992.0
120°	459.2	490.3	521.3	529.1	682.6	887.2	989.5	1181.8	1566.4	1854.9	1890.5
122.5°	487.3	518.6	550.0	557.8	696.9	882.4	975.2	1148.4	1494.7	1754.4	1789.6
125°	530.3	558.9	587.5	594.6	716.3	878.5	959.6	1106.7	1400.9	1621.6	1654.0
127.5°	565.3	594.1	623.0	630.2	735.6	876.2	946.5	1072.8	1325.4	1514.9	1542.2
130°	584.0	615.1	646.1	653.9	749.8	877.6	941.5	1053.9	1278.8	1447.5	1472.7
132.5°	603.3	634.4	665.4	673.2	761.2	878.5	937.1	1037.8	1239.1	1390.1	1412.7
135°	632.0	660.3	688.6	695.7	773.7	877.6	929.6	1013.9	1182.5	1309.0	1328.5
137.5°	661.3	689.3	717.4	724.4	792.4	883.1	928.4	999.7	1142.2	1249.1	1265.0
140°	685.7	711.5	737.3	743.7	803.8	883.9	924.0	985.6	1108.7	1201.0	1215.9
142.5°	704.4	728.3	752.1	758.1	813.4	887.1	924.0	978.1	1086.2	1167.3	1180.1
145°	733.1	753.9	774.7	779.9	825.9	887.2	917.8	962.0	1050.5	1116.8	1126.5
147.5°	761.8	782.0	802.2	807.3	844.1	893.2	917.8	952.6	1022.2	1074.4	1082.4
150°	780.5	798.8	817.1	821.7	853.7	896.4	917.8	947.2	1005.9	1050.0	1056.5
152.5°	799.9	813.8	827.6	831.1	860.0	898.5	917.8	942.9	993.1	1030.7	1035.6
155°	828.6	838.8	849.0	851.6	873.7	903.1	917.8	937.8	977.7	1007.6	1010.9
157.5°	849.8	859.8	869.7	872.2	887.4	907.7	917.8	933.3	964.4	987.7	990.0
160°	864.1	871.9	879.7	881.6	893.7	909.8	917.8	931.1	957.7	977.7	979.0
162.5°	878.5	884.3	890.1	891.6	900.3	912.0	917.8	929.0	951.5	968.3	969.5
165°	894.1	899.3	904.6	905.9	909.9	915.2	917.8	925.8	941.9	954.0	955.3
167.5°	908.4	910.9	913.4	914.0	917.3	921.8	924.0	929.3	939.8	947.7	948.3
170°	917.8	920.3	922.8	923.4	923.6	923.9	924.0	929.3	939.8	947.7	947.7
172.5°	922.8	923.3	923.9	924.0	924.0	924.0	924.0	928.2	936.5	942.7	942.2
175°	929.6	929.6	929.6	929.6	927.7	925.2	924.0	926.6	931.9	935.9	935.9
177.5°	929.6	929.6	929.6	929.6	928.2	926.3	925.3	927.4	931.5	934.6	934.0
180°	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	616.3	616.3
2.5°	658.0	654.0
5°	846.2	850.2
7.5°	1139.5	1137.6
10°	1417.0	1434.8
12.5°	1619.1	1623.1
15°	1742.0	1749.9
17.5°	1789.6	1791.5
20°	1791.5	1787.6
22.5°	1769.7	1765.8
25°	1744.0	1742.0
27.5°	1720.2	1722.2
30°	1710.3	1716.2
32.5°	1710.3	1720.2
35°	1714.3	1724.2
37.5°	1712.3	1724.2
40°	1704.3	1718.2
42.5°	1682.5	1692.5
45°	1648.9	1660.7
47.5°	1605.3	1613.2
50°	1549.8	1557.7
52.5°	1480.4	1482.4
55°	1397.2	1405.1
57.5°	1308.0	1310.0
60°	1208.9	1214.8
62.5°	1103.9	1103.9
65°	992.9	996.8
67.5°	877.9	887.8
70°	761.0	763.0
72.5°	646.1	646.1
75°	527.2	529.1
77.5°	414.2	414.2
80°	307.2	309.2
82.5°	212.1	216.0
85°	132.8	132.8
87.5°	61.4	55.5
90°	23.7	23.7
92.5°	94.9	76.1
95°	331.0	273.9
97.5°	793.1	684.4
100°	1142.7	1013.2
102.5°	1486.6	1375.7
105°	1925.1	1865.5
107.5°	2212.4	2226.8
110°	2321.9	2384.0



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	2331.6	2427.0
115°	2269.8	2402.1
117.5°	2138.7	2285.4
120°	2033.1	2175.6
122.5°	1930.2	2070.8
125°	1783.4	1912.9
127.5°	1651.5	1760.7
130°	1573.7	1674.6
132.5°	1503.1	1593.5
135°	1406.4	1484.3
137.5°	1328.8	1392.6
140°	1275.6	1335.2
142.5°	1231.5	1282.8
145°	1165.4	1204.2
147.5°	1114.6	1146.8
150°	1082.6	1108.7
152.5°	1055.3	1075.0
155°	1023.9	1036.9
157.5°	999.1	1008.2
160°	984.3	989.5
162.5°	974.5	979.5
165°	960.6	965.8
167.5°	950.5	952.7
170°	947.7	947.7
172.5°	940.3	938.4
175°	935.9	935.9
177.5°	931.8	929.6
180°	929.6	929.6



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	5.10	5.94	6.09	6.95	8.30	18.26	19.10	19.26	20.12	21.47
	3H	5.80	6.56	6.81	7.58	8.95	20.09	20.85	21.10	21.88	23.24
	4H	6.10	6.82	7.12	7.84	9.22	20.73	21.45	21.76	22.48	23.86
	6H	6.35	7.01	7.38	8.04	9.43	21.16	21.82	22.19	22.85	24.24
	8H	6.41	7.05	7.45	8.09	9.48	21.28	21.91	22.32	22.96	24.34
	12H	6.43	7.03	7.47	8.07	9.48	21.34	21.94	22.39	22.99	24.40
4H	2H	12.30	13.02	13.33	14.05	15.42	18.53	19.25	19.56	20.28	21.66
	3H	13.87	14.47	14.90	15.52	16.91	20.57	21.17	21.61	22.23	23.62
	4H	13.96	14.51	15.01	15.56	16.97	21.34	21.89	22.38	22.93	24.35
	6H	13.97	14.45	15.02	15.52	16.92	21.87	22.34	22.92	23.41	24.82
	8H	13.95	14.39	15.00	15.45	16.88	22.03	22.47	23.08	23.54	24.96
	12H	13.90	14.31	14.98	15.38	16.81	22.12	22.52	23.19	23.60	25.03
8H	4H	15.40	15.85	16.46	16.91	18.33	21.39	21.84	22.45	22.90	24.32
	6H	15.64	16.01	16.72	17.11	18.54	22.02	22.39	23.10	23.49	24.91
	8H	15.66	15.98	16.75	17.07	18.51	22.24	22.56	23.32	23.65	25.09
	12H	15.63	15.91	16.72	17.00	18.48	22.38	22.66	23.47	23.74	25.22
12H	4H	15.54	15.95	16.62	17.02	18.45	21.35	21.75	22.42	22.82	24.25
	6H	15.90	16.22	16.99	17.31	18.75	22.00	22.33	23.09	23.41	24.85
	8H	15.97	16.25	17.06	17.34	18.82	22.23	22.51	23.32	23.60	25.08