

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: P938414

Luminaire Tested: SQ4-FB-150U-100D-835-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938414
REPORT IS A COMBINATION OF REPORTS P933631 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-150U-100D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

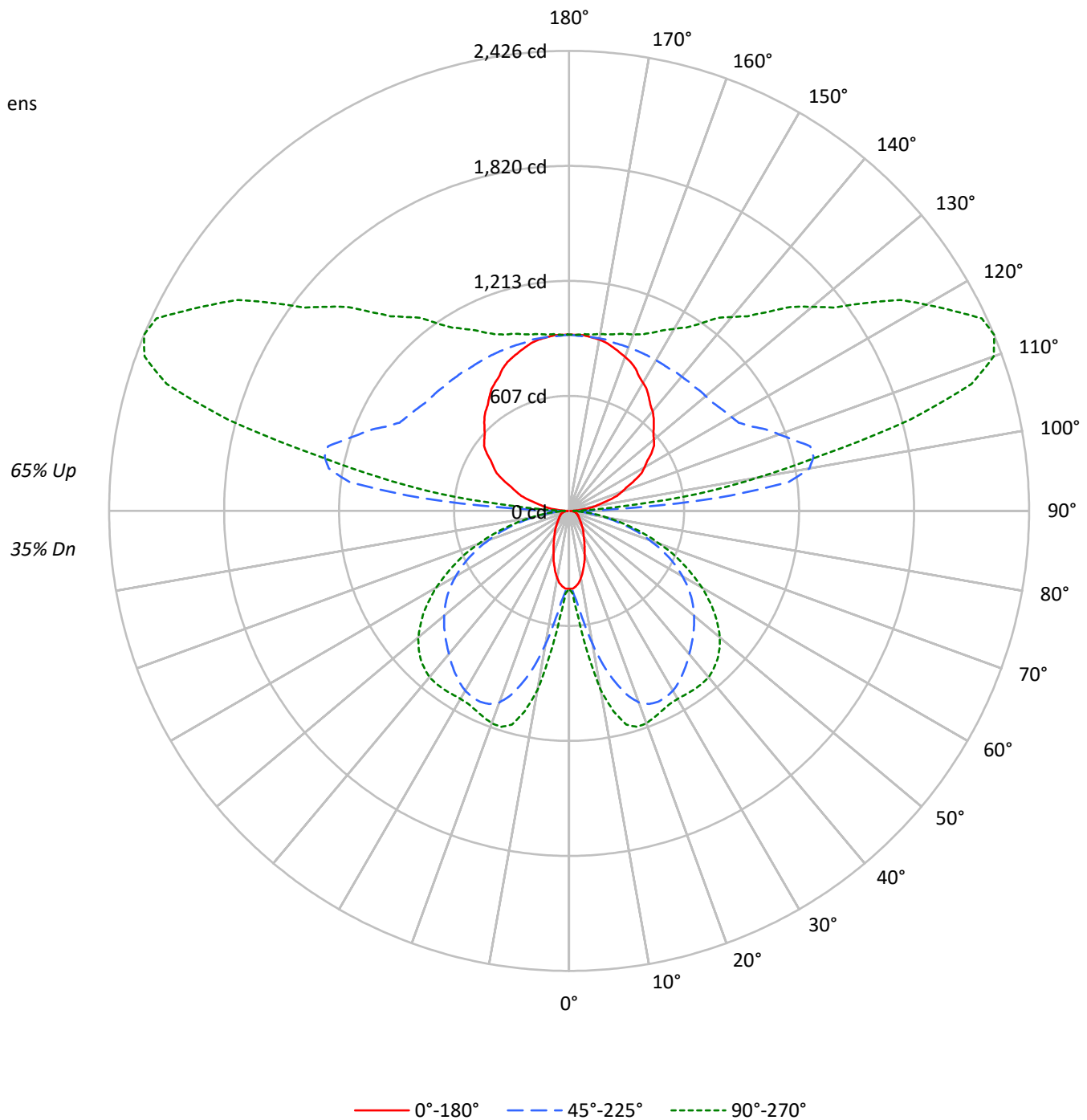
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9207.0 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (A_{in}): 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: P938414

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	0.6
10°-20°	235.6	2.6
20°-30°	412.1	4.5
30°-40°	530.5	5.8
40°-50°	592.5	6.4
50°-60°	567.5	6.2
60°-70°	449.7	4.9
70°-80°	264.5	2.9
80°-90°	77.0	0.8
90°-100°	453.0	4.9
100°-110°	1191.0	12.9
110°-120°	1234.9	13.4
120°-130°	990.5	10.8
130°-140°	777.2	8.4
140°-150°	596.6	6.5
150°-160°	429.6	4.7
160°-170°	262.9	2.9
170°-180°	88.8	1.0
0°-30°	700.8	7.6
0°-40°	1231.3	13.4
0°-60°	2391.3	26.0
0°-90°	3182.6	34.6
90°-120°	2878.9	31.3
90°-150°	5243.2	56.9
90°-180°	6024.0	65.4
0°-180°	9207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	411	411	411	411	411	
5°	400	429	484	547	567	37
15°	300	554	933	1131	1167	83
25°	192	628	1111	1160	1162	88
35°	130	600	1046	1106	1150	81
45°	88	478	925	1060	1107	68
55°	63	304	785	912	937	58
65°	50	161	583	655	665	50
75°	37	99	320	352	353	39
85°	13	30	79	87	88	14
90°	6	18	47	24	24	6
95°	60	234	780	402	274	66
105°	215	325	1317	1999	1865	227
115°	381	463	1055	2104	2401	376
125°	530	594	959	1621	1912	471
135°	632	695	929	1308	1484	489
145°	733	780	918	1116	1204	459
155°	828	851	918	1007	1037	381
165°	894	906	918	954	966	252
175°	929	929	924	936	936	88
180°	929	929	929	929	929	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9
2.5°	410.9	410.9	413.6	414.9	417.5	418.9	421.5	424.1	432.1	433.4	436.0
5°	400.4	405.7	422.8	429.4	447.9	473.0	483.6	500.8	536.5	547.0	553.6
7.5°	384.5	396.4	438.7	449.3	495.5	561.6	589.3	626.3	683.1	710.9	733.3
10°	359.4	384.5	459.8	484.9	560.2	660.7	712.2	763.7	849.6	887.9	902.5
12.5°	331.7	372.6	482.3	516.6	625.0	771.7	833.8	890.6	988.4	1039.9	1047.8
15°	299.9	355.4	503.4	553.6	693.7	864.2	932.9	1002.9	1094.1	1131.1	1140.3
17.5°	272.2	342.2	523.2	576.1	746.6	947.4	1017.4	1075.6	1149.6	1174.7	1181.3
20°	237.8	321.1	536.5	605.2	802.1	1008.2	1075.6	1120.5	1170.7	1186.6	1189.2
22.5°	212.7	298.6	544.4	615.7	839.0	1045.2	1102.0	1137.7	1172.0	1177.3	1178.6
25°	191.6	273.5	543.1	627.6	870.8	1067.6	1111.2	1137.7	1157.5	1160.1	1160.1
27.5°	171.8	245.8	537.8	630.3	894.5	1072.9	1107.3	1125.8	1135.0	1140.3	1140.3
30°	154.6	219.3	524.6	625.0	905.1	1067.6	1095.4	1104.6	1113.9	1121.8	1125.8
32.5°	141.4	194.2	504.8	614.4	906.4	1054.4	1074.2	1079.5	1092.7	1111.2	1117.9
35°	129.5	169.1	482.3	599.9	898.5	1033.3	1046.5	1051.8	1078.2	1106.0	1115.2
37.5°	117.6	150.6	453.2	574.8	886.6	1008.2	1017.4	1026.7	1067.6	1100.7	1111.2
40°	105.7	134.8	418.9	547.0	868.1	977.8	985.7	1000.3	1054.4	1092.7	1103.3
42.5°	96.5	121.6	381.9	518.0	844.3	943.4	955.3	976.5	1038.6	1079.5	1091.4
45°	88.5	108.3	342.2	478.3	813.9	907.8	924.9	954.0	1020.1	1059.7	1070.3
47.5°	80.6	99.1	301.3	437.4	780.9	872.1	894.5	927.6	995.0	1033.3	1042.5
50°	74.0	89.9	260.3	393.8	745.2	833.8	860.2	894.5	963.3	998.9	1010.8
52.5°	68.7	81.9	222.0	350.2	704.3	794.1	824.5	860.2	924.9	959.3	967.2
55°	63.4	75.3	189.0	303.9	662.0	751.8	784.9	819.2	882.7	911.7	917.0
57.5°	60.8	70.0	161.2	260.3	617.1	704.3	741.3	773.0	832.4	854.9	860.2
60°	56.8	66.1	140.1	223.3	568.2	659.3	691.1	722.8	773.0	791.5	795.4
62.5°	52.9	63.4	124.2	187.6	518.0	606.5	638.2	667.3	709.6	722.8	728.1
65°	50.2	60.8	112.3	161.2	466.4	551.0	582.7	607.8	642.2	655.4	658.0
67.5°	47.6	58.1	103.1	138.7	414.9	495.5	519.3	543.1	569.5	582.7	584.0
70°	43.6	55.5	95.1	122.9	362.0	432.1	451.9	477.0	498.1	504.8	508.7
72.5°	41.0	51.5	89.9	111.0	307.9	371.3	389.8	404.3	422.8	429.4	429.4
75°	37.0	46.2	84.6	99.1	252.4	303.9	319.8	334.3	348.8	351.5	347.5
77.5°	33.0	41.0	72.7	83.2	196.9	240.5	253.7	261.6	273.5	276.2	277.5
80°	27.7	35.7	56.8	64.7	142.7	177.1	186.3	192.9	203.5	203.5	206.1
82.5°	21.1	27.7	41.0	46.2	96.5	121.6	129.5	133.5	140.1	140.1	140.1
85°	13.2	17.2	26.4	30.4	58.1	74.0	79.3	80.6	85.9	87.2	87.2
87.5°	6.6	9.2	17.2	18.5	30.4	38.3	38.3	41.0	41.0	39.6	38.3
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°	24.9	67.3	109.8	120.4	169.2	234.3	266.9	233.9	168.0	118.5	113.8
95°	59.9	137.5	215.1	234.5	416.4	659.0	780.3	696.3	528.3	402.3	388.0
97.5°	103.5	172.0	240.5	257.6	560.9	965.4	1167.6	1114.5	1008.3	928.7	901.5
100°	137.2	199.3	261.4	276.9	613.5	1062.3	1286.7	1290.6	1298.4	1304.2	1271.8
102.5°	165.9	223.9	281.8	296.3	637.7	1092.8	1320.4	1388.0	1523.3	1624.8	1597.1
105°	214.6	263.7	312.7	325.0	655.5	1096.2	1316.6	1468.2	1771.5	1999.0	1984.1
107.5°	264.5	310.2	356.0	367.4	658.9	1047.5	1241.8	1453.3	1876.3	2193.6	2197.2
110°	298.1	339.4	380.8	391.1	653.9	1004.2	1179.4	1415.9	1888.8	2243.5	2259.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	331.2	370.6	410.0	419.8	654.1	966.5	1122.7	1364.7	1848.7	2211.7	2235.5
115°	381.1	417.4	453.7	462.8	660.1	923.2	1054.7	1287.8	1754.1	2103.8	2136.9
117.5°	430.4	463.4	496.4	504.6	672.4	896.1	1007.9	1218.3	1639.1	1954.7	1991.4
120°	459.0	490.1	521.1	528.9	682.3	886.9	989.2	1181.4	1565.9	1854.3	1889.9
122.5°	487.1	518.4	549.8	557.6	696.7	882.2	974.9	1148.0	1494.2	1753.9	1789.0
125°	530.2	558.7	587.3	594.4	716.0	878.2	959.3	1106.3	1400.4	1621.0	1653.4
127.5°	565.1	593.9	622.7	629.9	735.3	875.9	946.2	1072.5	1325.0	1514.4	1541.7
130°	583.8	614.8	645.8	653.6	749.5	877.3	941.2	1053.6	1278.4	1447.0	1472.2
132.5°	603.1	634.2	665.2	673.0	760.9	878.2	936.8	1037.4	1238.7	1389.6	1412.2
135°	631.8	660.1	688.3	695.4	773.4	877.3	929.3	1013.6	1182.1	1308.5	1328.0
137.5°	661.1	689.1	717.1	724.1	792.1	882.8	928.1	999.3	1141.8	1248.7	1264.6
140°	685.5	711.3	737.1	743.5	803.6	883.7	923.7	985.2	1108.3	1200.6	1215.5
142.5°	704.2	728.0	751.8	757.8	813.1	886.8	923.7	977.8	1085.9	1167.0	1179.8
145°	732.9	753.7	774.4	779.6	825.6	886.9	917.5	961.7	1050.1	1116.4	1126.1
147.5°	761.5	781.8	802.0	807.1	843.9	893.0	917.5	952.3	1021.8	1074.0	1082.0
150°	780.3	798.6	816.8	821.4	853.4	896.1	917.5	946.9	1005.6	1049.7	1056.2
152.5°	799.6	813.5	827.3	830.8	859.7	898.2	917.5	942.6	992.8	1030.4	1035.3
155°	828.3	838.6	848.8	851.4	873.4	902.8	917.5	937.5	977.4	1007.3	1010.6
157.5°	849.5	859.5	869.4	871.9	887.1	907.4	917.5	933.0	964.0	987.3	989.6
160°	863.8	871.6	879.4	881.3	893.4	909.5	917.5	930.8	957.4	977.3	978.6
162.5°	878.2	884.0	889.8	891.3	900.0	911.7	917.5	928.7	951.2	968.0	969.2
165°	893.8	899.0	904.3	905.6	909.6	914.9	917.5	925.5	941.6	953.6	954.9
167.5°	908.1	910.6	913.1	913.7	917.0	921.5	923.7	929.0	939.5	947.4	948.0
170°	917.5	920.0	922.5	923.1	923.3	923.6	923.7	929.0	939.5	947.4	947.4
172.5°	922.5	923.0	923.6	923.7	923.7	923.7	923.7	927.9	936.2	942.4	941.9
175°	929.3	929.3	929.3	929.3	927.4	924.9	923.7	926.3	931.6	935.6	935.6
177.5°	929.3	929.3	929.3	929.3	927.9	926.0	925.0	927.1	931.2	934.3	933.7
180°	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	410.9	410.9
2.5°	438.7	436.0
5°	564.2	566.9
7.5°	759.8	758.4
10°	944.8	956.6
12.5°	1079.5	1082.2
15°	1161.5	1166.7
17.5°	1193.2	1194.5
20°	1194.5	1191.8
22.5°	1180.0	1177.3
25°	1162.8	1161.5
27.5°	1146.9	1148.2
30°	1140.3	1144.3
32.5°	1140.3	1146.9
35°	1143.0	1149.6
37.5°	1141.6	1149.6
40°	1136.4	1145.6
42.5°	1121.8	1128.4
45°	1099.4	1107.3
47.5°	1070.3	1075.6
50°	1033.3	1038.6
52.5°	987.0	988.4
55°	931.5	936.8
57.5°	872.1	873.4
60°	806.0	810.0
62.5°	736.0	736.0
65°	662.0	664.6
67.5°	585.4	592.0
70°	507.4	508.7
72.5°	430.8	430.8
75°	351.5	352.8
77.5°	276.2	276.2
80°	204.8	206.1
82.5°	141.4	144.0
85°	88.5	88.5
87.5°	41.0	37.0
90°	23.7	23.7
92.5°	94.9	76.1
95°	330.9	273.8
97.5°	792.9	684.2
100°	1142.4	1012.9
102.5°	1486.2	1375.3
105°	1924.5	1864.9
107.5°	2211.6	2226.0
110°	2321.1	2383.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	2330.9	2426.2
115°	2269.1	2401.3
117.5°	2138.0	2284.6
120°	2032.4	2174.9
122.5°	1929.6	2070.1
125°	1782.8	1912.3
127.5°	1650.9	1760.1
130°	1573.1	1674.0
132.5°	1502.5	1592.9
135°	1405.9	1483.8
137.5°	1328.4	1392.1
140°	1275.1	1334.7
142.5°	1231.1	1282.3
145°	1165.0	1203.8
147.5°	1114.2	1146.4
150°	1082.3	1108.3
152.5°	1055.0	1074.6
155°	1023.6	1036.6
157.5°	998.7	1007.9
160°	983.9	989.2
162.5°	974.2	979.2
165°	960.2	965.5
167.5°	950.2	952.4
170°	947.4	947.4
172.5°	940.0	938.1
175°	935.6	935.6
177.5°	931.5	929.3
180°	929.3	929.3



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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	4.03	4.80	5.11	5.87	7.35	17.17	17.93	18.24	19.01	20.49
	3H	4.73	5.42	5.81	6.50	7.99	18.99	19.67	20.07	20.76	22.25
	4H	5.02	5.67	6.12	6.76	8.26	19.62	20.27	20.71	21.36	22.85
	6H	5.27	5.87	6.37	6.96	8.47	20.03	20.63	21.13	21.72	23.23
	8H	5.34	5.91	6.44	7.01	8.52	20.14	20.71	21.25	21.82	23.32
	12H	5.35	5.89	6.46	6.99	8.52	20.20	20.74	21.31	21.84	23.37
4H	2H	11.21	11.86	12.31	12.95	14.45	17.44	18.09	18.54	19.17	20.67
	3H	12.77	13.32	13.88	14.43	15.94	19.46	20.00	20.56	21.12	22.63
	4H	12.86	13.36	13.97	14.47	16.00	20.21	20.71	21.32	21.81	23.34
	6H	12.87	13.30	13.99	14.43	15.95	20.73	21.16	21.85	22.29	23.81
	8H	12.84	13.24	13.96	14.36	15.90	20.88	21.28	22.00	22.40	23.94
	12H	12.79	13.16	13.93	14.29	15.83	20.96	21.33	22.10	22.46	24.00
8H	4H	14.29	14.69	15.41	15.81	17.35	20.26	20.66	21.38	21.78	23.32
	6H	14.53	14.86	15.67	16.02	17.56	20.87	21.21	22.02	22.37	23.90
	8H	14.54	14.83	15.69	15.98	17.53	21.08	21.38	22.23	22.52	24.07
	12H	14.51	14.76	15.66	15.90	17.49	21.22	21.47	22.37	22.61	24.20
12H	4H	14.42	14.79	15.56	15.92	17.46	20.21	20.57	21.35	21.71	23.25
	6H	14.78	15.07	15.93	16.21	17.77	20.86	21.15	22.00	22.29	23.84
	8H	14.84	15.10	16.00	16.24	17.83	21.07	21.33	22.23	22.47	24.06