

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: P937614

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

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937614
REPORT IS A COMBINATION OF REPORTS P933567 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-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

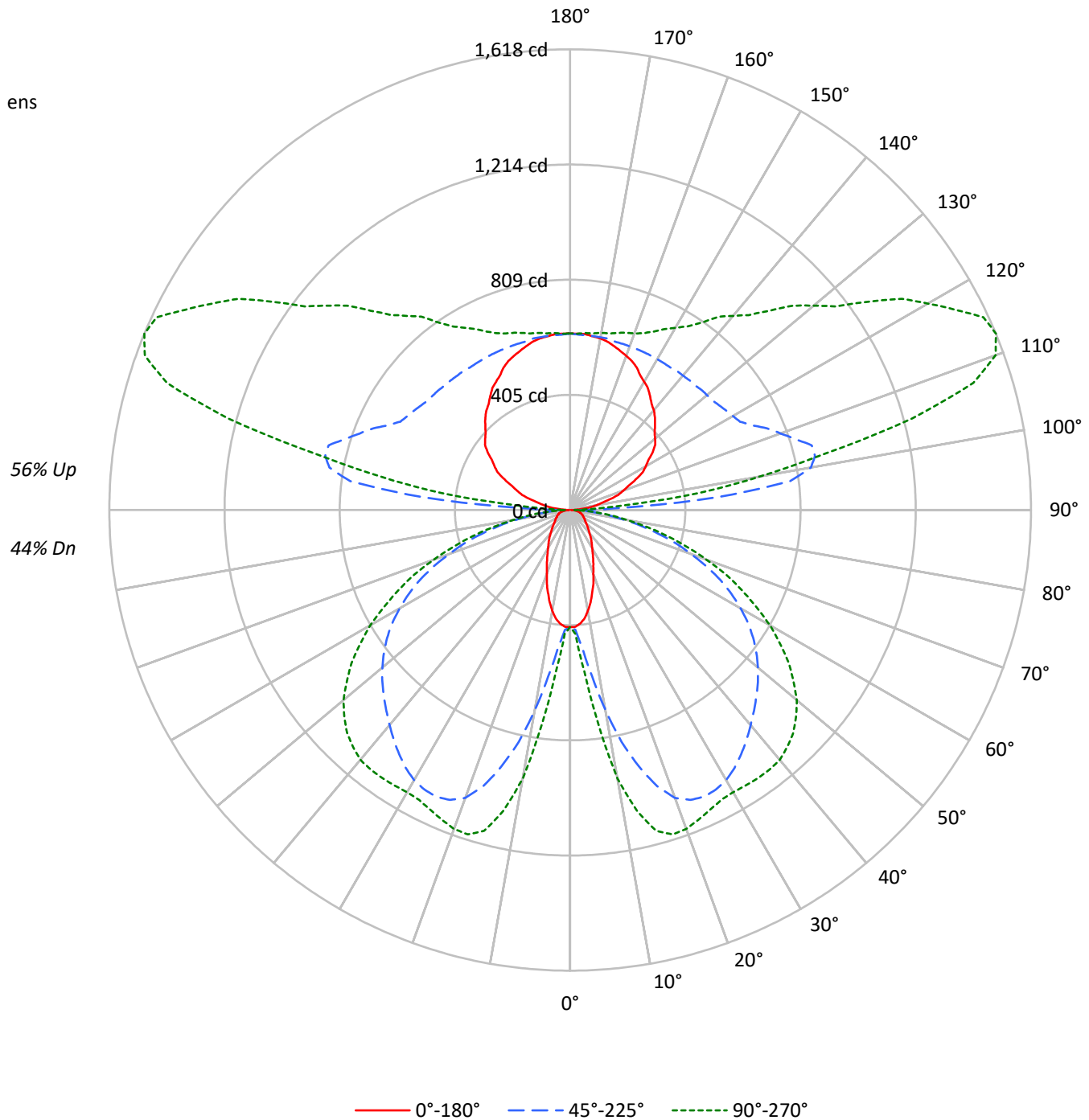
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7199.0 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: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 58
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





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	0.7
10°-20°	235.6	3.3
20°-30°	412.1	5.7
30°-40°	530.5	7.4
40°-50°	592.5	8.2
50°-60°	567.5	7.9
60°-70°	449.7	6.2
70°-80°	264.5	3.7
80°-90°	75.8	1.1
90°-100°	302.1	4.2
100°-110°	794.2	11.0
110°-120°	823.5	11.4
120°-130°	660.6	9.2
130°-140°	518.3	7.2
140°-150°	397.8	5.5
150°-160°	286.5	4.0
160°-170°	175.3	2.4
170°-180°	59.2	0.8
0°-30°	700.8	9.7
0°-40°	1231.3	17.1
0°-60°	2391.3	33.2
0°-90°	3181.4	44.2
90°-120°	1919.9	26.7
90°-150°	3496.6	48.6
90°-180°	4018.0	55.8
0°-180°	7199.0	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°	4	12	32	16	16	4
95°	40	156	520	268	183	44
105°	143	217	878	1333	1244	152
115°	254	309	703	1403	1601	251
125°	354	396	640	1081	1275	314
135°	421	464	620	873	990	326
145°	489	520	612	744	803	306
155°	552	568	612	672	691	254
165°	596	604	612	636	644	168
175°	620	620	616	624	624	59
180°	620	620	620	620	620	



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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°	4.2	7.5	10.8	11.6	18.3	27.2	31.6	28.1	21.1	15.8	15.8
92.5°	16.6	44.9	73.2	80.3	112.9	156.3	178.0	156.0	112.0	79.0	75.9
95°	39.9	91.7	143.5	156.4	277.7	439.4	520.3	464.3	352.3	268.3	258.8
97.5°	69.0	114.7	160.4	171.8	374.1	643.8	778.6	743.2	672.4	619.3	601.2
100°	91.5	132.9	174.3	184.7	409.2	708.5	858.1	860.7	865.8	869.7	848.1
102.5°	110.6	149.3	187.9	197.6	425.3	728.8	880.6	925.7	1015.9	1083.5	1065.0
105°	143.1	175.8	208.5	216.7	437.2	731.1	878.1	979.2	1181.4	1333.1	1323.2
107.5°	176.4	206.9	237.4	245.0	439.4	698.5	828.1	969.2	1251.3	1462.9	1465.3
110°	198.8	226.4	253.9	260.8	436.0	669.7	786.5	944.2	1259.6	1496.1	1506.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.9	247.1	273.3	279.9	436.2	644.5	748.7	910.1	1232.8	1474.9	1490.8
115°	254.1	278.3	302.5	308.6	440.2	615.7	703.4	858.9	1169.8	1403.0	1425.0
117.5°	287.0	309.0	331.0	336.5	448.4	597.6	672.2	812.5	1093.1	1303.6	1328.0
120°	306.1	326.8	347.5	352.7	455.0	591.5	659.7	787.9	1044.3	1236.6	1260.4
122.5°	324.9	345.8	366.7	371.9	464.6	588.3	650.1	765.5	996.4	1169.6	1193.0
125°	353.6	372.6	391.6	396.4	477.5	585.6	639.7	737.8	933.9	1081.0	1102.6
127.5°	376.8	396.0	415.3	420.1	490.4	584.1	631.0	715.2	883.6	1009.9	1028.1
130°	389.3	410.0	430.7	435.9	499.8	585.1	627.7	702.7	852.6	965.0	981.8
132.5°	402.2	422.9	443.6	448.8	507.4	585.6	624.7	691.8	826.0	926.7	941.8
135°	421.4	440.2	459.1	463.8	515.8	585.1	619.8	676.0	788.3	872.6	885.6
137.5°	440.9	459.6	478.2	482.9	528.2	588.7	618.9	666.4	761.4	832.7	843.3
140°	457.1	474.3	491.5	495.8	535.9	589.3	616.0	657.0	739.1	800.7	810.6
142.5°	469.6	485.5	501.4	505.4	542.3	591.4	616.0	652.0	724.1	778.2	786.8
145°	488.7	502.6	516.4	519.9	550.6	591.5	611.9	641.4	700.3	744.5	751.0
147.5°	507.9	521.4	534.8	538.2	562.8	595.5	611.9	635.1	681.5	716.3	721.7
150°	520.3	532.5	544.7	547.8	569.2	597.7	611.9	631.5	670.6	700.0	704.3
152.5°	533.2	542.4	551.7	554.0	573.3	599.0	611.9	628.6	662.0	687.1	690.4
155°	552.4	559.2	566.1	567.8	582.5	602.1	611.9	625.2	651.8	671.7	673.9
157.5°	566.5	573.2	579.8	581.5	591.6	605.1	611.9	622.2	642.9	658.4	659.9
160°	576.1	581.3	586.4	587.7	595.8	606.5	611.9	620.8	638.5	651.8	652.7
162.5°	585.6	589.5	593.4	594.4	600.2	608.0	611.9	619.4	634.3	645.5	646.3
165°	596.0	599.5	603.0	603.9	606.6	610.1	611.9	617.3	628.0	636.0	636.9
167.5°	605.6	607.3	609.0	609.4	611.6	614.5	616.0	619.5	626.5	631.8	632.2
170°	611.9	613.5	615.2	615.6	615.7	615.9	616.0	619.5	626.5	631.8	631.8
172.5°	615.2	615.6	615.9	616.0	616.0	616.0	616.0	618.8	624.3	628.5	628.2
175°	619.8	619.8	619.8	619.8	618.5	616.8	616.0	617.8	621.3	623.9	623.9
177.5°	619.8	619.8	619.8	619.8	618.8	617.5	616.8	618.2	621.0	623.1	622.7
180°	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8



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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°	15.8	15.8
92.5°	63.3	50.7
95°	220.7	182.6
97.5°	528.7	456.3
100°	761.8	675.5
102.5°	991.1	917.2
105°	1283.4	1243.7
107.5°	1474.9	1484.5
110°	1547.9	1589.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1554.4	1618.0
115°	1513.2	1601.4
117.5°	1425.8	1523.6
120°	1355.4	1450.4
122.5°	1286.8	1380.5
125°	1188.9	1275.3
127.5°	1101.0	1173.8
130°	1049.1	1116.4
132.5°	1002.0	1062.3
135°	937.5	989.5
137.5°	885.9	928.4
140°	850.4	890.1
142.5°	821.0	855.2
145°	776.9	802.8
147.5°	743.1	764.5
150°	721.7	739.1
152.5°	703.5	716.7
155°	682.6	691.3
157.5°	666.1	672.2
160°	656.2	659.7
162.5°	649.7	653.0
165°	640.4	643.9
167.5°	633.6	635.1
170°	631.8	631.8
172.5°	626.9	625.6
175°	623.9	623.9
177.5°	621.3	619.8
180°	619.8	619.8



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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	5.09	5.93	6.08	6.94	8.29	18.23	19.07	19.22	20.08	21.43
	3H	5.79	6.55	6.80	7.57	8.94	20.05	20.81	21.06	21.83	23.20
	4H	6.09	6.81	7.11	7.83	9.21	20.68	21.40	21.70	22.43	23.80
	6H	6.34	7.00	7.37	8.03	9.42	21.10	21.76	22.13	22.79	24.18
	8H	6.41	7.04	7.44	8.09	9.47	21.21	21.85	22.25	22.89	24.28
	12H	6.42	7.02	7.47	8.07	9.48	21.27	21.88	22.32	22.92	24.33
4H	2H	12.28	12.99	13.30	14.02	15.40	18.50	19.22	19.53	20.24	21.62
	3H	13.84	14.45	14.88	15.50	16.89	20.53	21.13	21.56	22.18	23.58
	4H	13.94	14.49	14.98	15.54	16.95	21.28	21.84	22.33	22.88	24.29
	6H	13.95	14.42	15.00	15.49	16.90	21.81	22.29	22.86	23.36	24.76
	8H	13.92	14.37	14.98	15.43	16.86	21.96	22.41	23.02	23.47	24.89
	12H	13.88	14.28	14.95	15.36	16.79	22.05	22.45	23.12	23.53	24.96
8H	4H	15.37	15.82	16.43	16.88	18.30	21.34	21.79	22.40	22.85	24.27
	6H	15.61	15.98	16.69	17.08	18.51	21.96	22.33	23.04	23.43	24.85
	8H	15.63	15.95	16.72	17.04	18.48	22.17	22.50	23.26	23.58	25.02
	12H	15.60	15.88	16.69	16.97	18.45	22.31	22.59	23.40	23.67	25.15
12H	4H	15.51	15.91	16.58	16.99	18.42	21.30	21.70	22.37	22.77	24.20
	6H	15.87	16.19	16.95	17.28	18.72	21.94	22.27	23.03	23.35	24.79
	8H	15.94	16.22	17.03	17.30	18.78	22.16	22.45	23.25	23.53	25.01