

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: P938114

Luminaire Tested: SQ4-FB-125U-125D-835-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938114
REPORT IS A COMBINATION OF REPORTS P933600 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-125U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

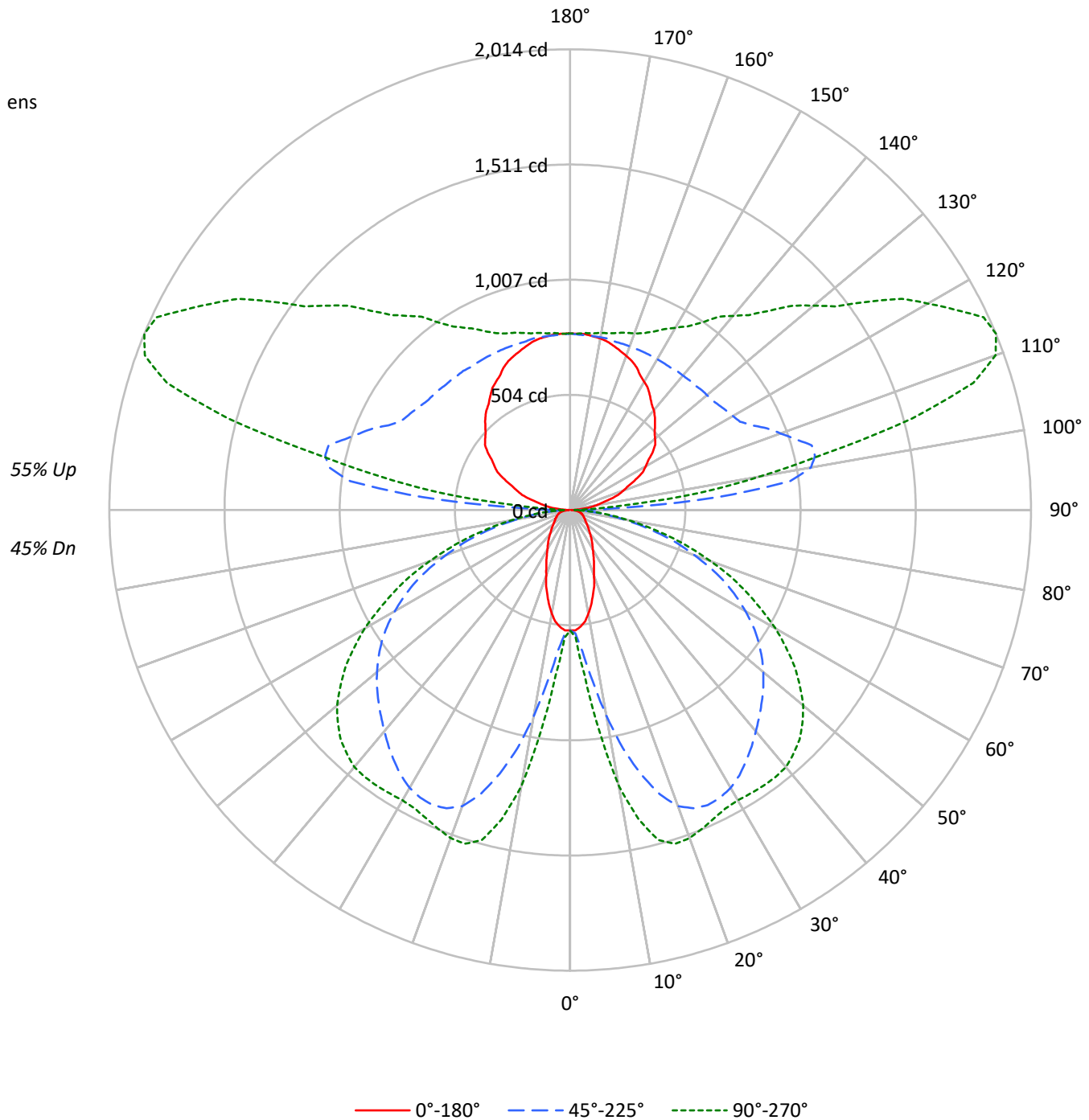
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9075.1 lumens
Efficiency: N/A
Efficacy: 120.7 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): 75.2
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: P938114

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	0.8
10°-20°	301.7	3.3
20°-30°	527.7	5.8
30°-40°	679.3	7.5
40°-50°	758.8	8.4
50°-60°	726.7	8.0
60°-70°	575.9	6.3
70°-80°	338.7	3.7
80°-90°	97.0	1.1
90°-100°	376.0	4.1
100°-110°	988.7	10.9
110°-120°	1025.1	11.3
120°-130°	822.3	9.1
130°-140°	645.2	7.1
140°-150°	495.2	5.5
150°-160°	356.6	3.9
160°-170°	218.2	2.4
170°-180°	73.7	0.8
0°-30°	897.5	9.9
0°-40°	1576.8	17.4
0°-60°	3062.3	33.7
0°-90°	4074.0	44.9
90°-120°	2389.8	26.3
90°-150°	4352.5	48.0
90°-180°	5001.0	55.1
0°-180°	9075.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	526	526	526	526	526	
5°	513	550	619	700	726	47
15°	384	709	1195	1448	1494	107
25°	245	804	1423	1486	1487	113
35°	166	768	1340	1416	1472	104
45°	113	612	1184	1357	1418	88
55°	81	389	1005	1168	1200	74
65°	64	206	746	839	851	64
75°	47	127	410	450	452	50
85°	17	39	102	112	113	18
90°	5	14	39	20	20	5
95°	50	195	648	334	227	55
105°	178	270	1093	1659	1548	189
115°	316	384	876	1746	1993	312
125°	440	493	796	1346	1587	391
135°	524	577	772	1086	1232	406
145°	608	647	762	927	999	381
155°	688	707	762	836	860	316
165°	742	752	762	792	802	209
175°	772	772	767	777	777	73
180°	772	772	772	772	772	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	526.2	526.2	526.2	526.2	526.2	526.2	526.2	526.2	526.2	526.2	526.2
2.5°	526.2	526.2	529.6	531.3	534.7	536.4	539.8	543.2	553.3	555.0	558.4
5°	512.7	519.5	541.5	549.9	573.6	605.8	619.3	641.3	687.0	700.5	709.0
7.5°	492.4	507.6	561.8	575.3	634.5	719.1	754.7	802.1	874.8	910.3	939.1
10°	460.2	492.4	588.8	621.0	717.4	846.0	912.0	978.0	1088.0	1137.1	1155.7
12.5°	424.7	477.2	617.6	661.6	800.4	988.2	1067.7	1140.5	1265.7	1331.7	1341.8
15°	384.1	455.2	644.7	709.0	888.3	1106.6	1194.6	1284.3	1401.1	1448.4	1460.3
17.5°	348.6	438.3	670.1	737.8	956.0	1213.2	1302.9	1377.4	1472.1	1504.3	1512.7
20°	304.6	411.2	687.0	775.0	1027.1	1291.1	1377.4	1434.9	1499.2	1519.5	1522.9
22.5°	272.4	382.4	697.1	788.5	1074.5	1338.4	1411.2	1456.9	1500.9	1507.7	1509.3
25°	245.4	350.3	695.5	803.7	1115.1	1367.2	1423.1	1456.9	1482.3	1485.7	1485.7
27.5°	220.0	314.7	688.7	807.1	1145.5	1374.0	1418.0	1441.7	1453.5	1460.3	1460.3
30°	198.0	280.9	671.8	800.4	1159.1	1367.2	1402.7	1414.6	1426.4	1436.6	1441.7
32.5°	181.1	248.7	646.4	786.8	1160.8	1350.3	1375.7	1382.4	1399.4	1423.1	1431.5
35°	165.8	216.6	617.6	768.2	1150.6	1323.2	1340.1	1346.9	1380.7	1416.3	1428.1
37.5°	150.6	192.9	580.4	736.1	1135.4	1291.1	1302.9	1314.8	1367.2	1409.5	1423.1
40°	135.4	172.6	536.4	700.5	1111.7	1252.1	1262.3	1280.9	1350.3	1399.4	1412.9
42.5°	123.5	155.7	489.0	663.3	1081.2	1208.2	1223.4	1250.5	1330.0	1382.4	1397.7
45°	113.4	138.8	438.3	612.5	1042.3	1162.5	1184.5	1221.7	1306.3	1357.1	1370.6
47.5°	103.2	126.9	385.8	560.1	1000.0	1116.8	1145.5	1187.9	1274.1	1323.2	1335.1
50°	94.8	115.1	333.3	504.2	954.3	1067.7	1101.6	1145.5	1233.5	1279.2	1294.5
52.5°	88.0	104.9	284.3	448.4	901.9	1016.9	1055.9	1101.6	1184.5	1228.5	1238.6
55°	81.2	96.4	242.0	389.2	847.7	962.8	1005.1	1049.1	1130.3	1167.5	1174.3
57.5°	77.8	89.7	206.4	333.3	790.2	901.9	949.3	989.9	1066.0	1094.8	1101.6
60°	72.8	84.6	179.4	286.0	727.6	844.4	885.0	925.6	989.9	1013.6	1018.6
62.5°	67.7	81.2	159.1	240.3	663.3	776.7	817.3	854.5	908.7	925.6	932.3
65°	64.3	77.8	143.8	206.4	597.3	705.6	746.2	778.4	822.4	839.3	842.7
67.5°	60.9	74.5	132.0	177.7	531.3	634.5	665.0	695.5	729.3	746.2	747.9
70°	55.8	71.1	121.8	157.4	463.6	553.3	578.7	610.8	637.9	646.4	651.5
72.5°	52.5	66.0	115.1	142.1	394.3	475.5	499.2	517.8	541.5	549.9	549.9
75°	47.4	59.2	108.3	126.9	323.2	389.2	409.5	428.1	446.7	450.1	445.0
77.5°	42.3	52.5	93.1	106.6	252.1	308.0	324.9	335.0	350.3	353.6	355.3
80°	35.5	45.7	72.8	82.9	182.7	226.7	238.6	247.0	260.6	260.6	264.0
82.5°	27.1	35.5	52.5	59.2	123.5	155.7	165.8	170.9	179.4	179.4	179.4
85°	16.9	22.0	33.8	38.9	74.5	94.8	101.5	103.2	110.0	111.7	111.7
87.5°	8.5	11.8	22.0	23.7	38.9	49.1	49.1	52.5	52.5	50.8	49.1
90°	5.2	9.3	13.5	14.5	22.8	33.8	39.3	34.9	26.2	19.7	19.7
92.5°	20.7	55.9	91.1	99.9	140.5	194.6	221.6	194.2	139.5	98.4	94.5
95°	49.7	114.1	178.6	194.7	345.7	547.0	647.7	578.0	438.6	334.0	322.1
97.5°	85.9	142.7	199.6	213.8	465.6	801.3	969.2	925.1	837.0	770.9	748.4
100°	113.9	165.5	217.0	229.9	509.3	881.8	1068.1	1071.3	1077.8	1082.6	1055.7
102.5°	137.7	185.8	233.9	245.9	529.3	907.2	1096.1	1152.3	1264.6	1348.8	1325.8
105°	178.1	218.9	259.6	269.8	544.2	910.1	1093.0	1218.9	1470.6	1659.4	1647.0
107.5°	219.5	257.5	295.5	305.0	547.0	869.6	1030.9	1206.5	1557.6	1820.9	1823.9
110°	247.5	281.8	316.0	324.6	542.8	833.7	979.1	1175.4	1568.0	1862.4	1875.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	274.9	307.6	340.2	348.4	542.9	802.3	932.0	1132.9	1534.7	1836.0	1855.8
115°	316.3	346.5	376.7	384.2	548.0	766.3	875.5	1069.0	1456.1	1746.4	1773.8
117.5°	357.3	384.7	412.1	418.9	558.2	743.9	836.7	1011.3	1360.6	1622.6	1653.0
120°	381.1	406.9	432.7	439.1	566.5	736.3	821.2	980.8	1299.9	1539.3	1568.9
122.5°	404.4	430.4	456.4	462.9	578.4	732.3	809.3	953.0	1240.4	1455.9	1485.1
125°	440.1	463.8	487.5	493.4	594.4	729.0	796.3	918.4	1162.5	1345.6	1372.5
127.5°	469.1	493.0	516.9	522.9	610.4	727.1	785.4	890.2	1099.9	1257.1	1279.8
130°	484.6	510.4	536.2	542.6	622.2	728.3	781.3	874.6	1061.2	1201.2	1222.1
132.5°	500.7	526.5	552.3	558.7	631.7	729.0	777.7	861.2	1028.3	1153.6	1172.3
135°	524.5	548.0	571.4	577.3	642.0	728.3	771.5	841.5	981.4	1086.3	1102.5
137.5°	548.8	572.0	595.3	601.1	657.5	732.8	770.4	829.5	947.8	1036.5	1049.7
140°	569.0	590.4	611.8	617.2	667.1	733.6	766.8	817.9	920.1	996.7	1009.1
142.5°	584.5	604.3	624.1	629.1	675.0	736.2	766.8	811.7	901.4	968.7	979.3
145°	608.4	625.6	642.9	647.2	685.3	736.2	761.6	798.3	871.7	926.8	934.9
147.5°	632.2	649.0	665.8	670.0	700.5	741.2	761.6	790.5	848.3	891.6	898.3
150°	647.7	662.9	678.1	681.9	708.5	743.9	761.6	786.0	834.8	871.4	876.8
152.5°	663.8	675.3	686.8	689.7	713.7	745.6	761.6	782.4	824.1	855.3	859.4
155°	687.6	696.1	704.6	706.7	725.0	749.4	761.6	778.2	811.3	836.2	838.9
157.5°	705.2	713.5	721.7	723.8	736.4	753.2	761.6	774.5	800.3	819.6	821.5
160°	717.1	723.5	730.0	731.6	741.6	754.9	761.6	772.6	794.7	811.3	812.4
162.5°	729.0	733.8	738.7	739.9	747.1	756.8	761.6	770.9	789.6	803.6	804.6
165°	741.9	746.3	750.7	751.8	755.1	759.4	761.6	768.3	781.6	791.6	792.7
167.5°	753.9	755.9	758.0	758.5	761.3	765.0	766.8	771.2	779.9	786.5	787.0
170°	761.6	763.7	765.8	766.3	766.5	766.7	766.8	771.2	779.9	786.5	786.5
172.5°	765.8	766.2	766.7	766.8	766.8	766.8	766.8	770.2	777.1	782.3	781.9
175°	771.5	771.5	771.5	771.5	769.9	767.8	766.8	769.0	773.3	776.6	776.6
177.5°	771.5	771.5	771.5	771.5	770.3	768.6	767.8	769.5	773.0	775.6	775.1
180°	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	526.2	526.2
2.5°	561.8	558.4
5°	722.5	725.9
7.5°	973.0	971.3
10°	1209.8	1225.1
12.5°	1382.4	1385.8
15°	1487.4	1494.1
17.5°	1528.0	1529.7
20°	1529.7	1526.3
22.5°	1511.0	1507.7
25°	1489.0	1487.4
27.5°	1468.7	1470.4
30°	1460.3	1465.4
32.5°	1460.3	1468.7
35°	1463.7	1472.1
37.5°	1462.0	1472.1
40°	1455.2	1467.0
42.5°	1436.6	1445.0
45°	1407.8	1418.0
47.5°	1370.6	1377.4
50°	1323.2	1330.0
52.5°	1264.0	1265.7
55°	1192.9	1199.7
57.5°	1116.8	1118.5
60°	1032.2	1037.3
62.5°	942.5	942.5
65°	847.7	851.1
67.5°	749.6	758.1
70°	649.8	651.5
72.5°	551.6	551.6
75°	450.1	451.8
77.5°	353.6	353.6
80°	262.3	264.0
82.5°	181.1	184.4
85°	113.4	113.4
87.5°	52.5	47.4
90°	19.7	19.7
92.5°	78.8	63.2
95°	274.7	227.3
97.5°	658.2	568.0
100°	948.3	840.8
102.5°	1233.7	1141.7
105°	1597.6	1548.1
107.5°	1835.9	1847.9
110°	1926.8	1978.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1934.9	2014.1
115°	1883.6	1993.4
117.5°	1774.8	1896.5
120°	1687.1	1805.4
122.5°	1601.7	1718.4
125°	1479.9	1587.4
127.5°	1370.4	1461.1
130°	1305.9	1389.7
132.5°	1247.3	1322.3
135°	1167.1	1231.7
137.5°	1102.7	1155.6
140°	1058.5	1108.0
142.5°	1021.9	1064.5
145°	967.1	999.3
147.5°	924.9	951.6
150°	898.5	920.1
152.5°	875.7	892.1
155°	849.7	860.5
157.5°	829.1	836.7
160°	816.8	821.2
162.5°	808.8	812.9
165°	797.1	801.5
167.5°	788.8	790.6
170°	786.5	786.5
172.5°	780.3	778.7
175°	776.6	776.6
177.5°	773.3	771.5
180°	771.5	771.5



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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	6.02	6.87	7.01	7.87	9.21	19.15	20.00	20.15	21.01	22.35
	3H	6.72	7.49	7.72	8.50	9.86	20.98	21.74	21.98	22.76	24.12
	4H	7.02	7.74	8.03	8.76	10.13	21.61	22.34	22.63	23.36	24.73
	6H	7.27	7.94	8.30	8.96	10.34	22.03	22.70	23.06	23.72	25.10
	8H	7.34	7.97	8.37	9.02	10.39	22.14	22.78	23.18	23.82	25.20
	12H	7.35	7.96	8.39	9.00	10.40	22.20	22.81	23.24	23.85	25.25
4H	2H	13.20	13.93	14.23	14.95	16.32	19.43	20.15	20.45	21.17	22.54
	3H	14.77	15.38	15.80	16.43	17.81	21.46	22.07	22.49	23.11	24.50
	4H	14.87	15.42	15.91	16.47	17.87	22.21	22.77	23.25	23.81	25.22
	6H	14.88	15.36	15.93	16.42	17.82	22.74	23.22	23.79	24.28	25.68
	8H	14.86	15.30	15.91	16.36	17.78	22.90	23.34	23.95	24.40	25.82
	12H	14.81	15.22	15.88	16.29	17.71	22.98	23.39	24.05	24.46	25.88
8H	4H	16.30	16.75	17.35	17.81	19.22	22.28	22.72	23.32	23.78	25.20
	6H	16.54	16.92	17.62	18.01	19.43	22.89	23.26	23.96	24.36	25.77
	8H	16.56	16.89	17.64	17.97	19.40	23.10	23.43	24.18	24.51	25.94
	12H	16.53	16.82	17.62	17.90	19.37	23.24	23.53	24.32	24.60	26.08
12H	4H	16.44	16.85	17.51	17.92	19.34	22.23	22.63	23.30	23.70	25.13
	6H	16.80	17.13	17.88	18.21	19.64	22.87	23.20	23.96	24.28	25.72
	8H	16.87	17.16	17.95	18.23	19.70	23.10	23.38	24.18	24.46	25.93