

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: P937207

Luminaire Tested: SQ4-FB-075U-075D-B50-1D-UNV-W2A-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937207
REPORT IS A COMBINATION OF REPORTS P933510 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-075D-B50-1D-UNV-W2A-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

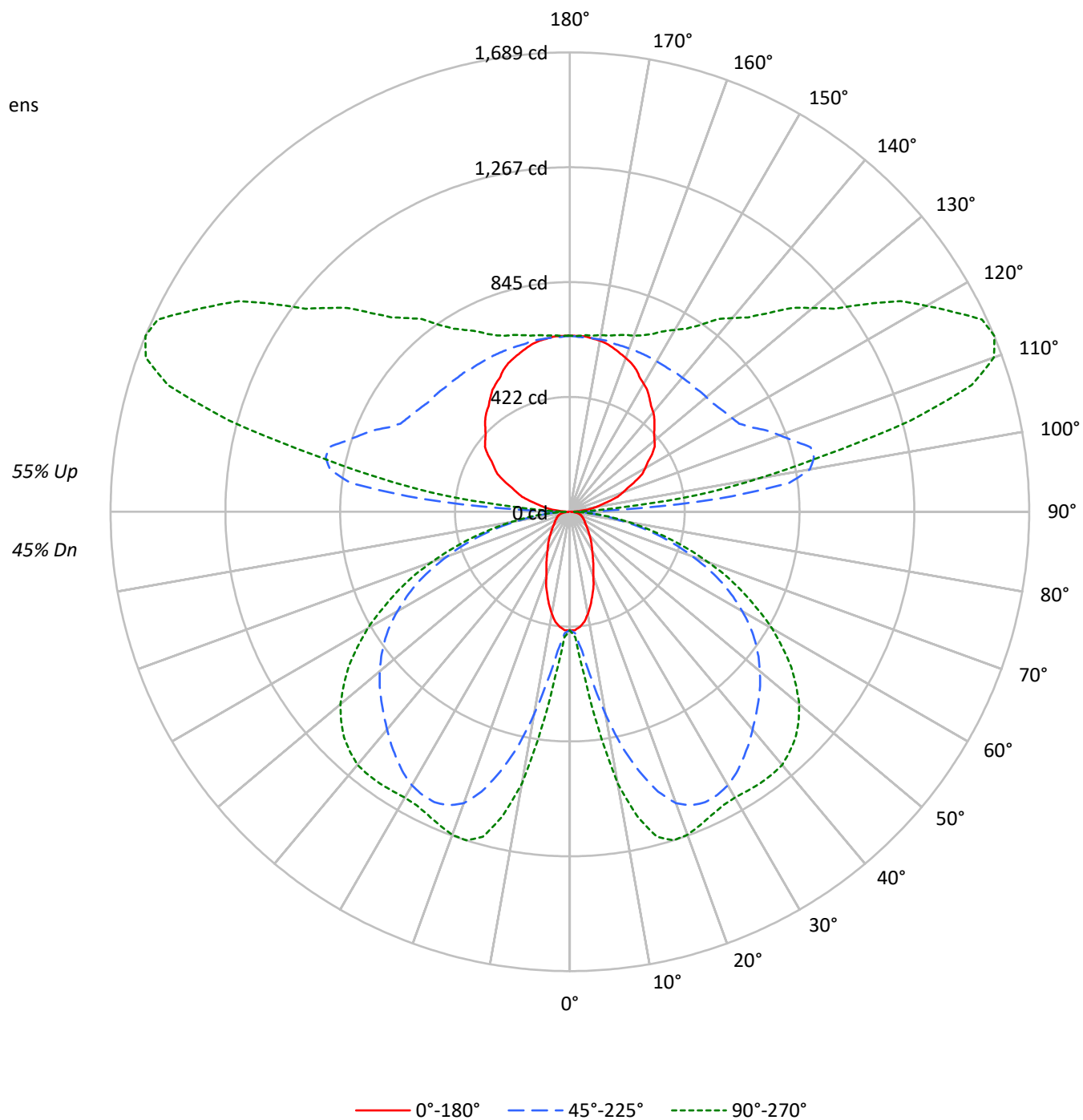
Lumens per Lamp: N/A
Luminaire Lumens: 7568.1 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 63.6
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

TEST NUMBER: P937207

CATALOG NUMBER: SQ4-FB-075U-075D-B50-1D-UNV-W2A-W-6

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	92	88	84	88	84	80	77	70	67	65	57	55	53	44	43	42
2	87	79	73	68	79	73	67	63	60	56	53	49	46	44	38	36	35
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29
4	72	61	53	47	65	56	49	43	46	41	37	38	34	31	30	27	24
5	66	54	46	39	60	50	42	37	41	36	31	34	29	26	26	23	21
6	60	48	40	34	55	44	37	31	37	31	27	30	26	22	24	21	18
7	56	43	35	29	51	40	32	27	33	28	23	27	23	20	21	18	16
8	51	39	31	26	47	36	29	24	30	24	21	25	20	17	20	16	14
9	48	35	28	23	44	33	26	21	27	22	18	22	18	15	18	15	12
10	44	32	25	20	41	30	23	19	25	20	16	21	17	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2695	2695	2695
5°	2632	3115	3623
10°	2387	4539	6006
15°	2028	5929	7253
20°	1650	6869	7392
25°	1376	7186	7242
30°	1160	7230	7228
35°	1025	7108	7415
40°	893	6949	7609
45°	808	6833	7638
50°	741	6728	7512
55°	708	6575	7178
60°	724	6283	6652
65°	752	5841	5930
70°	799	5090	5010
75°	882	4147	3910
80°	957	2872	2635
85°	835	1522	1349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7638 cd/sqm

TEST NUMBER: P937207

CATALOG NUMBER: SQ4-FB-075U-075D-B50-1D-UNV-W2A-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	0.7
10°-20°	249.8	3.3
20°-30°	437.0	5.8
30°-40°	562.5	7.4
40°-50°	628.3	8.3
50°-60°	601.7	8.0
60°-70°	476.9	6.3
70°-80°	280.4	3.7
80°-90°	80.4	1.1
90°-100°	315.4	4.2
100°-110°	829.3	11.0
110°-120°	859.9	11.4
120°-130°	689.7	9.1
130°-140°	541.2	7.2
140°-150°	415.4	5.5
150°-160°	299.2	4.0
160°-170°	183.0	2.4
170°-180°	61.8	0.8
0°-30°	743.1	9.8
0°-40°	1305.6	17.3
0°-60°	2535.6	33.5
0°-90°	3373.2	44.6
90°-120°	2004.6	26.5
90°-150°	3650.9	48.2
90°-180°	4195.0	55.4
0°-180°	7568.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	436	436	436	436	436	
5°	424	455	513	580	601	39
15°	318	587	989	1199	1237	89
25°	203	666	1178	1230	1232	94
35°	137	636	1110	1173	1219	86
45°	94	507	981	1124	1174	73
55°	67	322	832	967	993	61
65°	53	171	618	695	705	53
75°	39	105	339	373	374	41
85°	14	32	84	92	94	15
90°	4	12	33	16	16	5
95°	42	163	543	280	191	46
105°	149	226	917	1392	1298	158
115°	265	322	734	1465	1672	262
125°	369	414	668	1129	1332	328
135°	440	484	647	911	1033	340
145°	510	543	639	777	838	320
155°	577	593	639	701	722	265
165°	622	631	639	664	672	176
175°	647	647	643	652	652	61
180°	647	647	647	647	647	

TEST NUMBER: P937207

CATALOG NUMBER: SQ4-FB-075U-075D-B50-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7
2.5°	435.7	435.7	438.5	439.9	442.7	444.1	446.9	449.7	458.1	459.5	462.3
5°	424.5	430.1	448.3	455.3	474.9	501.6	512.8	531.0	568.8	580.0	587.0
7.5°	407.7	420.3	465.1	476.3	525.4	595.4	624.8	664.1	724.3	753.7	777.6
10°	381.1	407.7	487.5	514.2	594.0	700.5	755.1	809.8	900.8	941.5	956.9
12.5°	351.7	395.1	511.4	547.8	662.7	818.2	884.0	944.3	1047.9	1102.7	1111.1
15°	318.0	376.9	533.8	587.0	735.5	916.3	989.1	1063.5	1160.1	1199.3	1209.2
17.5°	288.6	362.9	554.8	610.8	791.6	1004.5	1078.9	1140.5	1219.0	1245.6	1252.6
20°	252.2	340.4	568.8	641.7	850.4	1069.1	1140.5	1188.1	1241.4	1258.2	1261.0
22.5°	225.6	316.6	577.2	652.9	889.6	1108.3	1168.5	1206.4	1242.8	1248.4	1249.8
25°	203.1	290.0	575.8	665.5	923.3	1132.1	1178.3	1206.4	1227.4	1230.2	1230.2
27.5°	182.1	260.6	570.2	668.3	948.5	1137.7	1174.1	1193.7	1203.6	1209.2	1209.2
30°	163.9	232.6	556.2	662.7	959.7	1132.1	1161.5	1171.3	1181.1	1189.5	1193.7
32.5°	149.9	205.9	535.2	651.5	961.1	1118.1	1139.1	1144.7	1158.7	1178.3	1185.3
35°	137.3	179.3	511.4	636.1	952.7	1095.7	1109.7	1115.3	1143.3	1172.7	1182.5
37.5°	124.7	159.7	480.5	609.4	940.1	1069.1	1078.9	1088.7	1132.1	1167.1	1178.3
40°	112.1	142.9	444.1	580.0	920.5	1036.7	1045.1	1060.6	1118.1	1158.7	1169.9
42.5°	102.3	128.9	404.9	549.2	895.2	1000.3	1012.9	1035.3	1101.3	1144.7	1157.3
45°	93.9	114.9	362.9	507.2	863.0	962.5	980.7	1011.5	1081.7	1123.7	1134.9
47.5°	85.5	105.1	319.4	463.7	828.0	924.7	948.5	983.5	1055.0	1095.7	1105.5
50°	78.5	95.3	276.0	417.5	790.2	884.0	912.1	948.5	1021.3	1059.2	1071.9
52.5°	72.9	86.9	235.4	371.3	746.7	842.0	874.2	912.1	980.7	1017.1	1025.5
55°	67.2	79.9	200.3	322.2	701.9	797.2	832.2	868.6	935.9	966.7	972.3
57.5°	64.4	74.3	170.9	276.0	654.3	746.7	786.0	819.6	882.6	906.4	912.1
60°	60.2	70.0	148.5	236.8	602.4	699.1	732.7	766.3	819.6	839.2	843.4
62.5°	56.0	67.2	131.7	198.9	549.2	643.1	676.7	707.5	752.3	766.3	772.0
65°	53.2	64.4	119.1	170.9	494.6	584.2	617.8	644.5	680.9	694.9	697.7
67.5°	50.4	61.6	109.3	147.1	439.9	525.4	550.6	575.8	603.8	617.8	619.2
70°	46.2	58.8	100.9	130.3	383.9	458.1	479.1	505.8	528.2	535.2	539.4
72.5°	43.4	54.6	95.3	117.7	326.4	393.7	413.3	428.7	448.3	455.3	455.3
75°	39.2	49.0	89.7	105.1	267.6	322.2	339.0	354.5	369.9	372.7	368.5
77.5°	35.0	43.4	77.1	88.3	208.7	255.0	269.0	277.4	290.0	292.8	294.2
80°	29.4	37.8	60.2	68.6	151.3	187.7	197.5	204.5	215.8	215.8	218.6
82.5°	22.4	29.4	43.4	49.0	102.3	128.9	137.3	141.5	148.5	148.5	148.5
85°	14.0	18.2	28.0	32.2	61.6	78.5	84.1	85.5	91.1	92.5	92.5
87.5°	7.0	9.8	18.2	19.6	32.2	40.6	40.6	43.4	43.4	42.0	40.6
90°	4.3	7.8	11.3	12.1	19.1	28.3	33.0	29.3	22.0	16.5	16.5
92.5°	17.4	46.9	76.4	83.8	117.8	163.2	185.9	162.9	116.9	82.5	79.2
95°	41.7	95.7	149.7	163.3	289.9	458.9	543.3	484.8	367.8	280.1	270.2
97.5°	72.1	119.7	167.4	179.3	390.6	672.2	813.0	776.1	702.2	646.7	627.7
100°	95.5	138.8	182.0	192.9	427.2	739.7	896.0	898.7	904.1	908.1	885.6
102.5°	115.5	155.9	196.2	206.3	444.0	760.9	919.4	966.5	1060.7	1131.4	1112.0
105°	149.4	183.6	217.8	226.3	456.4	763.4	916.8	1022.4	1233.5	1391.9	1381.6
107.5°	184.2	216.0	247.9	255.8	458.8	729.4	864.7	1012.0	1306.6	1527.5	1530.0
110°	207.6	236.4	265.1	272.3	455.2	699.3	821.3	985.9	1315.3	1562.2	1573.0

TEST NUMBER: P937207

CATALOG NUMBER: SQ4-FB-075U-075D-B50-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	230.6	258.0	285.4	292.2	455.4	672.9	781.8	950.3	1287.2	1540.0	1556.6
115°	265.3	290.7	315.9	322.2	459.6	642.8	734.4	896.7	1221.4	1464.9	1487.9
117.5°	299.6	322.6	345.6	351.4	468.2	623.9	701.8	848.4	1141.3	1361.1	1386.6
120°	319.6	341.3	362.9	368.3	475.1	617.6	688.8	822.7	1090.4	1291.2	1316.0
122.5°	339.2	361.0	382.8	388.3	485.1	614.3	678.8	799.3	1040.4	1221.2	1245.7
125°	369.1	389.0	408.9	413.9	498.6	611.5	668.0	770.4	975.2	1128.7	1151.2
127.5°	393.5	413.6	433.6	438.6	512.0	609.9	658.8	746.7	922.6	1054.5	1073.5
130°	406.5	428.1	449.7	455.1	521.9	610.9	655.4	733.7	890.2	1007.6	1025.2
132.5°	419.9	441.6	463.2	468.6	529.9	611.5	652.3	722.4	862.5	967.6	983.3
135°	439.9	459.6	479.3	484.3	538.5	610.9	647.1	705.7	823.1	911.1	924.7
137.5°	460.4	479.8	499.3	504.2	551.5	614.7	646.2	695.8	795.0	869.5	880.6
140°	477.3	495.2	513.2	517.7	559.6	615.3	643.2	686.0	771.8	836.0	846.4
142.5°	490.4	507.0	523.6	527.7	566.2	617.5	643.2	680.8	756.1	812.6	821.5
145°	510.3	524.8	539.2	542.8	574.9	617.6	638.9	669.7	731.2	777.4	784.1
147.5°	530.2	544.3	558.4	562.0	587.6	621.8	638.9	663.0	711.5	747.9	753.5
150°	543.3	556.0	568.8	572.0	594.3	624.0	638.9	659.3	700.2	730.9	735.5
152.5°	556.8	566.5	576.1	578.5	598.6	625.4	638.9	656.3	691.3	717.5	721.0
155°	576.7	583.8	591.0	592.8	608.1	628.6	638.9	652.8	680.6	701.4	703.7
157.5°	591.5	598.5	605.4	607.2	617.7	631.9	638.9	649.7	671.3	687.5	689.1
160°	601.5	606.9	612.3	613.6	622.0	633.3	638.9	648.1	666.6	680.5	681.4
162.5°	611.5	615.6	619.6	620.6	626.7	634.8	638.9	646.7	662.3	674.1	674.9
165°	622.3	626.1	629.7	630.6	633.3	637.0	638.9	644.5	655.7	664.1	665.0
167.5°	632.3	634.1	635.8	636.2	638.6	641.7	643.2	646.8	654.2	659.7	660.1
170°	638.9	640.6	642.3	642.8	642.9	643.1	643.2	646.8	654.2	659.7	659.7
172.5°	642.3	642.7	643.1	643.2	643.2	643.2	643.2	646.0	651.8	656.2	655.9
175°	647.1	647.1	647.1	647.1	645.8	644.0	643.2	645.0	648.7	651.5	651.5
177.5°	647.1	647.1	647.1	647.1	646.0	644.7	644.1	645.6	648.5	650.6	650.3
180°	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1

TEST NUMBER: P937207

CATALOG NUMBER: SQ4-FB-075U-075D-B50-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	435.7	435.7
2.5°	465.1	462.3
5°	598.2	601.0
7.5°	805.6	804.2
10°	1001.7	1014.3
12.5°	1144.7	1147.5
15°	1231.6	1237.2
17.5°	1265.2	1266.6
20°	1266.6	1263.8
22.5°	1251.2	1248.4
25°	1233.0	1231.6
27.5°	1216.2	1217.6
30°	1209.2	1213.4
32.5°	1209.2	1216.2
35°	1212.0	1219.0
37.5°	1210.6	1219.0
40°	1205.0	1214.8
42.5°	1189.5	1196.5
45°	1165.7	1174.1
47.5°	1134.9	1140.5
50°	1095.7	1101.3
52.5°	1046.5	1047.9
55°	987.7	993.3
57.5°	924.7	926.1
60°	854.6	858.8
62.5°	780.4	780.4
65°	701.9	704.7
67.5°	620.6	627.6
70°	538.0	539.4
72.5°	456.7	456.7
75°	372.7	374.1
77.5°	292.8	292.8
80°	217.2	218.6
82.5°	149.9	152.7
85°	93.9	93.9
87.5°	43.4	39.2
90°	16.5	16.5
92.5°	66.0	53.0
95°	230.4	190.6
97.5°	552.1	476.4
100°	795.4	705.3
102.5°	1034.9	957.6
105°	1340.0	1298.5
107.5°	1540.0	1550.0
110°	1616.2	1659.4

TEST NUMBER: P937207

CATALOG NUMBER: SQ4-FB-075U-075D-B50-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1623.0	1689.4
115°	1580.0	1672.0
117.5°	1488.7	1590.8
120°	1415.2	1514.4
122.5°	1343.6	1441.4
125°	1241.5	1331.6
127.5°	1149.6	1225.6
130°	1095.4	1165.6
132.5°	1046.3	1109.2
135°	978.9	1033.2
137.5°	924.9	969.4
140°	888.0	929.4
142.5°	857.2	892.9
145°	811.2	838.2
147.5°	775.8	798.2
150°	753.6	771.8
152.5°	734.6	748.3
155°	712.7	721.8
157.5°	695.5	701.8
160°	685.1	688.8
162.5°	678.4	681.8
165°	668.7	672.3
167.5°	661.6	663.1
170°	659.7	659.7
172.5°	654.5	653.1
175°	651.5	651.5
177.5°	648.7	647.1
180°	647.1	647.1

(END OF REPORT)