

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: P936400

Luminaire Tested: SQ4-FB-025U-075D-B35-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936400
REPORT IS A COMBINATION OF REPORTS P933454 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-075D-B35-1D-UNV-W2A-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

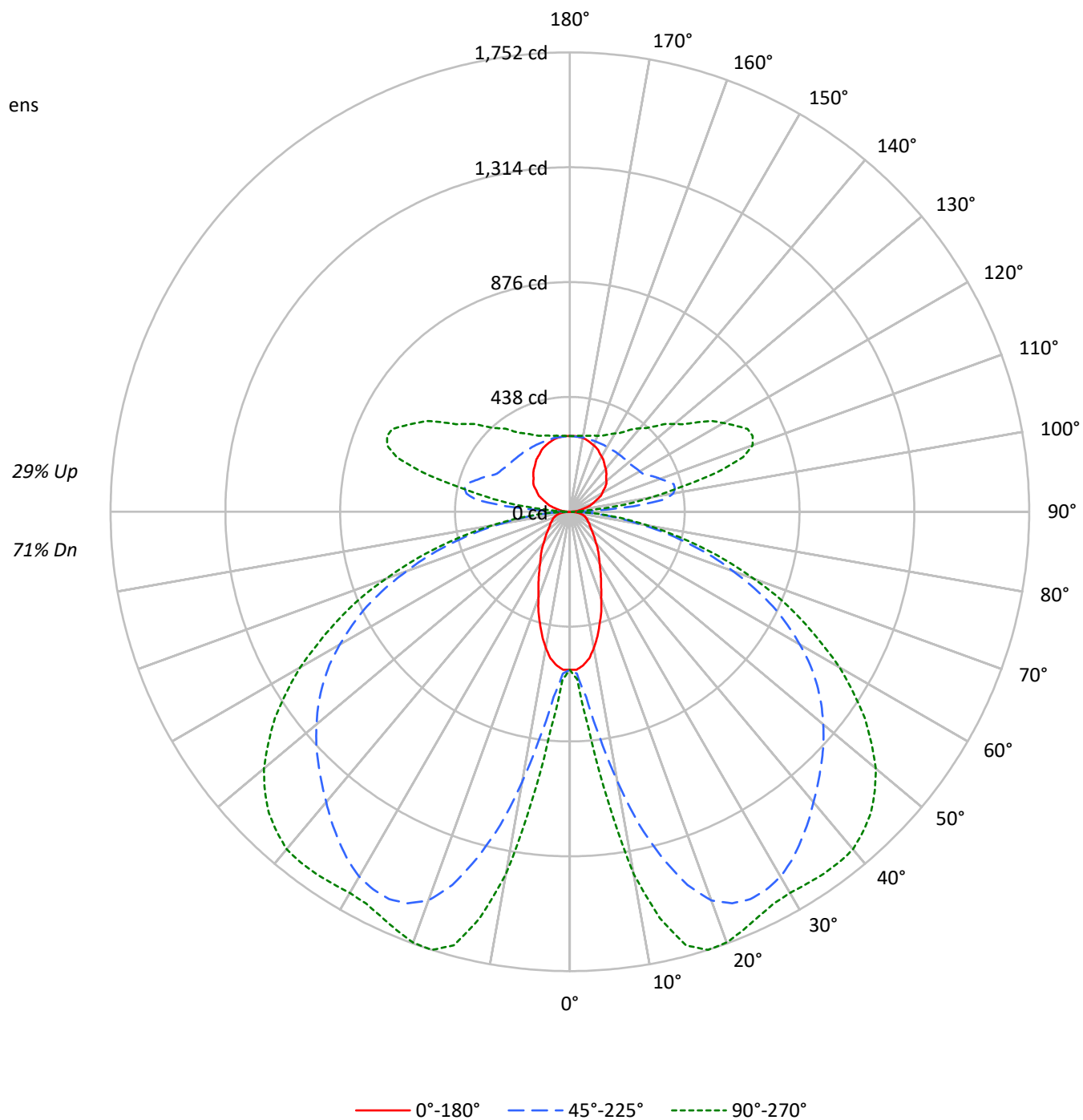
Lumens per Lamp: N/A
Luminaire Lumens: 6538.8 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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: P936400

CATALOG NUMBER: SQ4-FB-025U-075D-B35-1D-UNV-W2A-W-8

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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2796	2796	2796
5°	2732	3232	3759
10°	2478	4711	6232
15°	2106	6156	7525
20°	1714	7133	7669
25°	1430	7465	7513
30°	1206	7512	7499
35°	1066	7387	7693
40°	929	7225	7893
45°	841	7106	7924
50°	772	6999	7793
55°	739	6843	7447
60°	757	6542	6902
65°	787	6086	6152
70°	839	5307	5197
75°	930	4327	4056
80°	1015	3001	2733
85°	904	1592	1398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7924 cd/sqm

TEST NUMBER: P936400

CATALOG NUMBER: SQ4-FB-025U-075D-B35-1D-UNV-W2A-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	1.2
10°-20°	345.6	5.3
20°-30°	604.4	9.2
30°-40°	778.1	11.9
40°-50°	869.1	13.3
50°-60°	832.4	12.7
60°-70°	659.6	10.1
70°-80°	387.9	5.9
80°-90°	108.9	1.7
90°-100°	141.0	2.2
100°-110°	370.6	5.7
110°-120°	384.3	5.9
120°-130°	308.3	4.7
130°-140°	241.9	3.7
140°-150°	185.7	2.8
150°-160°	133.7	2.0
160°-170°	81.8	1.3
170°-180°	27.6	0.4
0°-30°	1028.0	15.7
0°-40°	1806.0	27.6
0°-60°	3507.5	53.6
0°-90°	4663.9	71.3
90°-120°	895.9	13.7
90°-150°	1631.8	25.0
90°-180°	1875.0	28.7
0°-180°	6538.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	587	630	709	802	831	54
15°	440	812	1368	1659	1711	122
25°	281	921	1630	1702	1704	129
35°	190	880	1535	1622	1686	119
45°	130	702	1357	1554	1624	100
55°	93	446	1151	1337	1374	85
65°	74	236	855	961	975	73
75°	54	145	469	516	517	57
85°	19	45	116	128	130	21
90°	2	5	15	7	7	3
95°	19	73	243	125	85	21
105°	67	101	410	622	580	71
115°	119	144	328	655	747	117
125°	165	185	298	504	595	146
135°	197	216	289	407	462	152
145°	228	243	286	348	375	143
155°	258	265	286	314	323	118
165°	278	282	286	297	300	79
175°	289	289	288	291	291	27
180°	289	289	289	289	289	

TEST NUMBER: P936400

CATALOG NUMBER: SQ4-FB-025U-075D-B35-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7
2.5°	602.7	602.7	606.6	608.5	612.4	614.3	618.2	622.1	633.7	635.7	639.5
5°	587.2	595.0	620.2	629.8	657.0	693.8	709.3	734.5	786.8	802.3	812.0
7.5°	564.0	581.4	643.4	658.9	726.8	823.6	864.3	918.6	1001.9	1042.6	1075.6
10°	527.1	564.0	674.4	711.2	821.7	969.0	1044.6	1120.3	1246.2	1302.4	1323.8
12.5°	486.4	546.5	707.4	757.8	916.7	1131.9	1223.0	1306.3	1449.7	1525.3	1536.9
15°	439.9	521.3	738.4	812.0	1017.4	1267.5	1368.3	1471.0	1604.8	1659.0	1672.6
17.5°	399.2	501.9	767.4	845.0	1095.0	1389.6	1492.4	1577.6	1686.2	1723.0	1732.7
20°	348.8	470.9	786.8	887.6	1176.5	1478.8	1577.6	1643.5	1717.2	1740.4	1744.3
22.5°	312.0	438.0	798.5	903.1	1230.7	1533.1	1616.4	1668.7	1719.1	1726.9	1728.8
25°	281.0	401.2	796.5	920.6	1277.2	1566.0	1630.0	1668.7	1697.8	1701.7	1701.7
27.5°	251.9	360.5	788.8	924.4	1312.1	1573.8	1624.1	1651.3	1664.8	1672.6	1672.6
30°	226.7	321.7	769.4	916.7	1327.6	1566.0	1606.7	1620.3	1633.8	1645.5	1651.3
32.5°	207.4	284.9	740.3	901.2	1329.6	1546.6	1575.7	1583.4	1602.8	1630.0	1639.6
35°	189.9	248.1	707.4	879.9	1317.9	1515.6	1535.0	1542.7	1581.5	1622.2	1635.8
37.5°	172.5	220.9	664.7	843.0	1300.5	1478.8	1492.4	1505.9	1566.0	1614.5	1630.0
40°	155.0	197.7	614.3	802.3	1273.4	1434.2	1445.8	1467.2	1546.6	1602.8	1618.3
42.5°	141.5	178.3	560.1	759.7	1238.5	1383.8	1401.3	1432.3	1523.4	1583.4	1600.9
45°	129.8	158.9	501.9	701.6	1193.9	1331.5	1356.7	1399.3	1496.2	1554.4	1569.9
47.5°	118.2	145.4	441.9	641.5	1145.5	1279.2	1312.1	1360.6	1459.4	1515.6	1529.2
50°	108.5	131.8	381.8	577.5	1093.0	1223.0	1261.7	1312.1	1412.9	1465.2	1482.7
52.5°	100.8	120.2	325.6	513.6	1033.0	1164.8	1209.4	1261.7	1356.7	1407.1	1418.7
55°	93.0	110.5	277.1	445.7	970.9	1102.8	1151.3	1201.7	1294.7	1337.3	1345.1
57.5°	89.1	102.7	236.4	381.8	905.0	1033.0	1087.2	1133.8	1221.0	1254.0	1261.7
60°	83.3	96.9	205.4	327.5	833.3	967.1	1013.6	1060.1	1133.8	1161.0	1166.8
62.5°	77.5	93.0	182.2	275.2	759.7	889.5	936.1	978.7	1040.7	1060.1	1067.8
65°	73.6	89.1	164.7	236.4	684.1	808.1	854.7	891.5	941.9	961.2	965.1
67.5°	69.8	85.3	151.2	203.5	608.5	726.8	761.6	796.5	835.3	854.7	856.6
70°	64.0	81.4	139.5	180.2	531.0	633.7	662.8	699.6	730.6	740.3	746.1
72.5°	60.1	75.6	131.8	162.8	451.6	544.6	571.7	593.0	620.2	629.8	629.8
75°	54.3	67.8	124.0	145.4	370.2	445.7	469.0	490.3	511.6	515.5	509.7
77.5°	48.4	60.1	106.6	122.1	288.8	352.7	372.1	383.7	401.2	405.0	407.0
80°	40.7	52.3	83.3	95.0	209.3	259.7	273.3	282.9	298.5	298.5	302.3
82.5°	31.0	40.7	60.1	67.8	141.5	178.3	189.9	195.7	205.4	205.4	205.4
85°	19.4	25.2	38.8	44.6	85.3	108.5	116.3	118.2	126.0	127.9	127.9
87.5°	9.7	13.6	25.2	27.1	44.6	56.2	56.2	60.1	60.1	58.1	56.2
90°	1.9	3.5	5.0	5.4	8.5	12.7	14.7	13.1	9.8	7.4	7.4
92.5°	7.8	20.9	34.2	37.5	52.7	73.0	83.0	72.8	52.3	36.9	35.5
95°	18.6	42.7	67.0	73.0	129.6	205.0	242.8	216.7	164.4	125.2	120.7
97.5°	32.3	53.6	74.8	80.1	174.5	300.4	363.4	346.9	313.9	289.1	280.6
100°	42.7	62.0	81.3	86.1	190.9	330.5	400.4	401.7	404.1	405.9	395.8
102.5°	51.6	69.7	87.7	92.2	198.5	340.1	411.0	432.0	474.0	505.6	497.0
105°	66.8	82.1	97.4	101.2	204.1	341.2	409.8	457.0	551.4	622.1	617.4
107.5°	82.3	96.5	110.8	114.3	205.0	326.0	386.4	452.2	583.9	682.7	683.8
110°	92.8	105.6	118.5	121.7	203.5	312.5	367.1	440.6	587.8	698.2	703.0

TEST NUMBER: P936400

CATALOG NUMBER: SQ4-FB-025U-075D-B35-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	103.1	115.3	127.5	130.6	203.6	300.8	349.4	424.7	575.3	688.3	695.7
115°	118.6	129.8	141.2	144.0	205.4	287.3	328.2	400.8	545.9	654.8	665.0
117.5°	133.9	144.2	154.5	157.1	209.3	278.9	313.7	379.2	510.1	608.3	619.8
120°	142.8	152.5	162.2	164.6	212.4	276.1	307.9	367.6	487.3	577.0	588.1
122.5°	151.6	161.3	171.1	173.5	216.9	274.5	303.4	357.3	465.0	545.8	556.8
125°	165.0	173.9	182.8	185.0	222.9	273.4	298.5	344.3	435.9	504.5	514.5
127.5°	175.9	184.8	193.8	196.0	228.9	272.6	294.5	333.8	412.4	471.3	479.8
130°	181.7	191.4	201.0	203.4	233.2	273.1	292.9	327.9	397.9	450.3	458.1
132.5°	187.7	197.4	207.0	209.4	236.8	273.4	291.6	322.9	385.5	432.5	439.5
135°	196.6	205.4	214.2	216.5	240.7	273.1	289.2	315.5	367.9	407.3	413.3
137.5°	205.7	214.4	223.2	225.4	246.5	274.7	288.9	311.0	355.3	388.6	393.5
140°	213.3	221.3	229.4	231.4	250.1	275.0	287.5	306.7	345.0	373.6	378.3
142.5°	219.2	226.6	234.0	235.9	253.1	276.1	287.5	304.4	338.0	363.2	367.2
145°	228.1	234.6	241.0	242.6	257.0	276.1	285.6	299.3	326.8	347.5	350.5
147.5°	237.0	243.3	249.6	251.2	262.6	277.9	285.6	296.4	318.0	334.2	336.7
150°	242.8	248.5	254.2	255.6	265.6	278.9	285.6	294.7	313.0	326.6	328.7
152.5°	248.8	253.1	257.5	258.5	267.5	279.6	285.6	293.3	308.9	320.6	322.2
155°	257.8	261.0	264.1	264.9	271.8	281.0	285.6	291.8	304.2	313.5	314.4
157.5°	264.3	267.4	270.5	271.3	276.1	282.4	285.6	290.4	300.0	307.3	307.9
160°	268.8	271.2	273.6	274.2	278.0	283.0	285.6	289.7	298.0	304.2	304.6
162.5°	273.3	275.1	276.8	277.3	280.0	283.7	285.6	289.1	296.0	301.3	301.6
165°	278.2	279.8	281.5	281.9	283.1	284.8	285.6	288.1	293.0	296.8	297.2
167.5°	282.7	283.4	284.2	284.4	285.5	286.8	287.5	289.1	292.4	294.9	295.1
170°	285.6	286.3	287.1	287.3	287.4	287.5	287.5	289.1	292.4	294.9	294.9
172.5°	287.1	287.3	287.5	287.5	287.5	287.5	287.5	288.8	291.4	293.3	293.1
175°	289.2	289.2	289.2	289.2	288.7	287.9	287.5	288.3	289.9	291.2	291.2
177.5°	289.2	289.2	289.2	289.2	288.8	288.2	287.9	288.6	289.8	290.8	290.6
180°	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2

TEST NUMBER: P936400

CATALOG NUMBER: SQ4-FB-025U-075D-B35-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	602.7	602.7
2.5°	643.4	639.5
5°	827.5	831.4
7.5°	1114.4	1112.5
10°	1385.8	1403.2
12.5°	1583.4	1587.3
15°	1703.6	1711.4
17.5°	1750.1	1752.0
20°	1752.0	1748.2
22.5°	1730.7	1726.9
25°	1705.5	1703.6
27.5°	1682.3	1684.2
30°	1672.6	1678.4
32.5°	1672.6	1682.3
35°	1676.5	1686.2
37.5°	1674.5	1686.2
40°	1666.8	1680.3
42.5°	1645.5	1655.1
45°	1612.5	1624.1
47.5°	1569.9	1577.6
50°	1515.6	1523.4
52.5°	1447.8	1449.7
55°	1366.4	1374.1
57.5°	1279.2	1281.1
60°	1182.3	1188.1
62.5°	1079.5	1079.5
65°	970.9	974.8
67.5°	858.5	868.2
70°	744.2	746.1
72.5°	631.8	631.8
75°	515.5	517.4
77.5°	405.0	405.0
80°	300.4	302.3
82.5°	207.4	211.2
85°	129.8	129.8
87.5°	60.1	54.3
90°	7.4	7.4
92.5°	29.6	23.6
95°	103.0	85.2
97.5°	246.7	212.9
100°	355.5	315.2
102.5°	462.5	428.0
105°	598.9	580.3
107.5°	688.3	692.7
110°	722.3	741.7



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CATALOG NUMBER: SQ4-FB-025U-075D-B35-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	725.4	755.0
115°	706.2	747.3
117.5°	665.4	711.1
120°	632.5	676.8
122.5°	600.5	644.2
125°	554.8	595.2
127.5°	513.8	547.8
130°	489.5	520.9
132.5°	467.6	495.7
135°	437.5	461.7
137.5°	413.4	433.2
140°	396.8	415.4
142.5°	383.1	399.0
145°	362.6	374.6
147.5°	346.7	356.8
150°	336.8	345.0
152.5°	328.3	334.4
155°	318.5	322.6
157.5°	310.9	313.7
160°	306.2	307.9
162.5°	303.2	304.8
165°	298.8	300.5
167.5°	295.7	296.4
170°	294.9	294.9
172.5°	292.5	292.0
175°	291.2	291.2
177.5°	289.9	289.2
180°	289.2	289.2

(END OF REPORT)