

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: P936604

Luminaire Tested: SQ4-FB-025U-125D-B40-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936604
REPORT IS A COMBINATION OF REPORTS P933456 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-125D-B40-1D-UNV-W2A-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

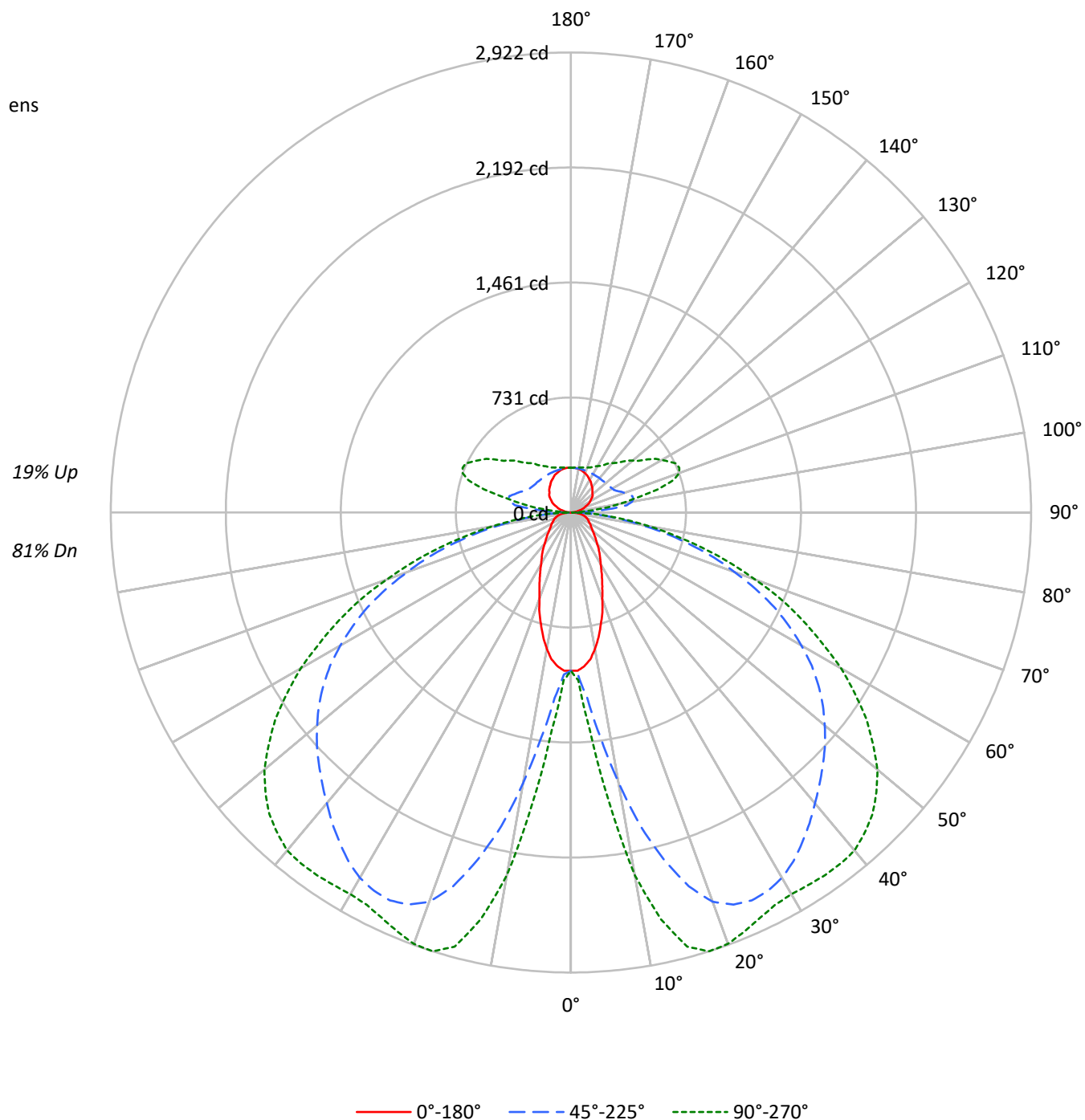
Lumens per Lamp: N/A
Luminaire Lumens: 9625.5 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 99.2
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: P936604

CATALOG NUMBER: SQ4-FB-025U-125D-B40-1D-UNV-W2A-W-8

Luminous Intensity Polar Plot



TEST NUMBER: P936604

CATALOG NUMBER: SQ4-FB-025U-125D-B40-1D-UNV-W2A-W-8

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	114	114	114	114	110	110	110	110	100	100	100	92	92	92	84	84	84
1	104	99	94	90	99	95	91	87	87	84	81	80	77	75	73	71	70
2	94	85	78	72	89	82	75	70	75	70	66	69	65	61	63	60	57
3	85	74	66	59	81	71	64	58	65	59	54	60	55	51	55	51	48
4	77	65	56	49	74	63	54	48	58	51	45	53	47	43	49	44	40
5	71	58	49	42	67	55	47	41	51	44	39	47	41	36	43	38	34
6	65	51	42	36	62	49	41	35	46	39	33	42	36	31	39	34	30
7	60	46	37	31	57	45	36	30	41	34	29	38	32	27	35	30	26
8	55	42	33	27	53	40	32	27	37	30	25	35	29	24	32	27	23
9	52	38	30	24	49	37	29	24	34	27	23	32	26	22	29	24	20
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4664	4664	4664
5°	4556	5391	6269
10°	4133	7858	10393
15°	3512	10266	12550
20°	2860	11897	12790
25°	2385	12449	12530
30°	2012	12528	12506
35°	1779	12320	12830
40°	1550	12050	13164
45°	1404	11851	13216
50°	1287	11673	12997
55°	1233	11413	12421
60°	1262	10911	11511
65°	1313	10149	10261
70°	1399	8851	8669
75°	1550	7217	6765
80°	1694	5004	4558
85°	1504	2656	2333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 13216 cd/sqm

TEST NUMBER: P936604

CATALOG NUMBER: SQ4-FB-025U-125D-B40-1D-UNV-W2A-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	1.4
10°-20°	576.3	6.0
20°-30°	1008.1	10.5
30°-40°	1297.7	13.5
40°-50°	1449.4	15.1
50°-60°	1388.2	14.4
60°-70°	1100.2	11.4
70°-80°	646.9	6.7
80°-90°	180.8	1.9
90°-100°	138.9	1.4
100°-110°	365.3	3.8
110°-120°	378.8	3.9
120°-130°	303.8	3.2
130°-140°	238.4	2.5
140°-150°	183.0	1.9
150°-160°	131.8	1.4
160°-170°	80.6	0.8
170°-180°	27.2	0.3
0°-30°	1714.4	17.8
0°-40°	3012.1	31.3
0°-60°	5849.7	60.8
0°-90°	7777.7	80.8
90°-120°	883.0	9.2
90°-150°	1608.2	16.7
90°-180°	1848.0	19.2
0°-180°	9625.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	979	1050	1183	1338	1387	90
15°	734	1354	2282	2767	2854	204
25°	469	1535	2718	2838	2841	216
35°	317	1468	2560	2705	2812	198
45°	217	1170	2263	2592	2709	168
55°	155	744	1920	2230	2292	141
65°	123	394	1425	1603	1626	122
75°	90	242	782	860	863	95
85°	32	74	194	213	217	34
90°	2	5	14	7	7	4
95°	18	72	239	123	84	20
105°	66	100	404	613	572	70
115°	117	142	324	645	736	115
125°	163	182	294	497	587	144
135°	194	213	285	401	455	150
145°	225	239	281	342	369	141
155°	254	261	281	309	318	117
165°	274	278	281	292	296	77
175°	285	285	283	287	287	27
180°	285	285	285	285	285	

TEST NUMBER: P936604

CATALOG NUMBER: SQ4-FB-025U-125D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2
2.5°	1005.2	1005.2	1011.7	1015.0	1021.4	1024.6	1031.1	1037.6	1057.0	1060.2	1066.6
5°	979.4	992.3	1034.4	1050.5	1095.8	1157.2	1183.1	1225.1	1312.3	1338.1	1354.3
7.5°	940.6	969.7	1073.1	1099.0	1212.1	1373.8	1441.6	1532.1	1671.1	1739.0	1794.0
10°	879.2	940.6	1124.8	1186.2	1370.5	1616.1	1742.2	1868.3	2078.4	2172.1	2207.7
12.5°	811.3	911.5	1179.8	1263.8	1528.9	1887.7	2039.6	2178.5	2417.8	2543.8	2563.2
15°	733.7	869.5	1231.5	1354.3	1696.9	2113.9	2282.0	2453.3	2676.4	2766.8	2789.5
17.5°	665.8	837.2	1280.0	1409.3	1826.2	2317.6	2488.8	2631.1	2812.1	2873.5	2889.6
20°	581.8	785.5	1312.3	1480.3	1962.0	2466.3	2631.1	2740.9	2863.9	2902.6	2909.0
22.5°	520.4	730.5	1331.7	1506.2	2052.5	2556.7	2695.8	2783.0	2867.0	2880.0	2883.2
25°	468.7	669.1	1328.5	1535.4	2130.1	2611.7	2718.4	2783.0	2831.5	2838.0	2838.0
27.5°	420.2	601.2	1315.5	1541.8	2188.3	2624.6	2708.7	2753.9	2776.6	2789.5	2789.5
30°	378.2	536.5	1283.2	1528.9	2214.2	2611.7	2679.5	2702.2	2724.8	2744.2	2753.9
32.5°	345.9	475.1	1234.7	1503.0	2217.3	2579.4	2627.9	2640.8	2673.1	2718.4	2734.5
35°	316.8	413.7	1179.8	1467.5	2197.9	2527.7	2560.0	2572.9	2637.5	2705.4	2728.1
37.5°	287.6	368.4	1108.7	1406.0	2168.9	2466.3	2488.8	2511.5	2611.7	2692.5	2718.4
40°	258.6	329.7	1024.6	1338.1	2123.6	2391.9	2411.3	2446.8	2579.4	2673.1	2698.9
42.5°	236.0	297.4	934.2	1267.1	2065.5	2307.9	2337.0	2388.6	2540.6	2640.8	2669.9
45°	216.6	265.0	837.2	1170.1	1991.1	2220.6	2262.6	2333.7	2495.3	2592.3	2618.1
47.5°	197.2	242.4	737.0	1069.9	1910.3	2133.3	2188.3	2269.1	2433.9	2527.7	2550.3
50°	181.0	219.8	636.8	963.2	1823.0	2039.6	2104.2	2188.3	2356.4	2443.7	2472.7
52.5°	168.1	200.4	543.0	856.5	1722.8	1942.6	2017.0	2104.2	2262.6	2346.6	2366.0
55°	155.2	184.2	462.2	743.5	1619.4	1839.1	1920.0	2004.1	2159.2	2230.3	2243.2
57.5°	148.7	171.3	394.3	636.8	1509.5	1722.8	1813.4	1890.9	2036.3	2091.3	2104.2
60°	139.0	161.6	342.7	546.3	1389.9	1612.9	1690.4	1768.1	1890.9	1936.2	1945.8
62.5°	129.3	155.2	303.9	459.0	1267.1	1483.6	1561.2	1632.3	1735.7	1768.1	1781.0
65°	122.8	148.7	274.8	394.3	1141.0	1347.9	1425.4	1486.8	1570.9	1603.3	1609.7
67.5°	116.3	142.2	252.1	339.4	1015.0	1212.1	1270.2	1328.5	1393.2	1425.4	1428.7
70°	106.7	135.8	232.7	300.6	885.7	1057.0	1105.4	1166.8	1218.6	1234.7	1244.5
72.5°	100.2	126.1	219.8	271.5	753.1	908.3	953.6	989.1	1034.4	1050.5	1050.5
75°	90.5	113.2	206.9	242.4	617.4	743.5	782.2	817.8	853.3	859.8	850.1
77.5°	80.8	100.2	177.8	203.6	481.6	588.3	620.6	640.0	669.1	675.6	678.8
80°	67.9	87.3	139.0	158.3	349.1	433.1	455.7	472.0	497.7	497.7	504.2
82.5°	51.8	67.9	100.2	113.2	236.0	297.4	316.8	326.4	342.7	342.7	342.7
85°	32.3	42.0	64.7	74.3	142.2	181.0	194.0	197.2	210.1	213.3	213.3
87.5°	16.1	22.6	42.0	45.3	74.3	93.8	93.8	100.2	100.2	96.9	93.8
90°	1.9	3.4	5.0	5.3	8.4	12.5	14.5	12.9	9.6	7.3	7.3
92.5°	7.6	20.6	33.7	37.0	52.0	71.9	81.8	71.7	51.6	36.4	35.0
95°	18.3	42.1	66.0	71.9	127.7	202.1	239.3	213.5	162.1	123.4	119.0
97.5°	31.8	52.8	73.7	79.0	172.0	296.0	358.1	341.9	309.3	284.9	276.6
100°	42.1	61.1	80.1	84.9	188.1	325.8	394.6	395.8	398.2	400.0	390.1
102.5°	50.9	68.7	86.4	90.8	195.6	335.2	405.0	425.7	467.2	498.3	489.8
105°	65.8	80.9	96.0	99.7	201.1	336.3	403.9	450.4	543.4	613.1	608.5
107.5°	81.1	95.1	109.2	112.7	202.1	321.3	380.9	445.7	575.5	672.8	673.9
110°	91.5	104.1	116.8	119.9	200.5	308.0	361.8	434.2	579.3	688.1	692.9

TEST NUMBER: P936604

CATALOG NUMBER: SQ4-FB-025U-125D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	101.6	113.6	125.7	128.7	200.6	296.4	344.4	418.6	567.0	678.3	685.7
115°	116.9	128.0	139.1	141.9	202.5	283.2	323.5	395.0	538.0	645.3	655.4
117.5°	132.0	142.1	152.2	154.8	206.3	274.8	309.1	373.7	502.7	599.5	610.8
120°	140.8	150.3	159.9	162.3	209.3	272.1	303.4	362.3	480.3	568.7	579.6
122.5°	149.4	159.0	168.7	171.0	213.7	270.6	299.0	352.1	458.3	538.0	548.7
125°	162.6	171.4	180.1	182.3	219.6	269.4	294.2	339.3	429.6	497.2	507.1
127.5°	173.3	182.1	191.0	193.2	225.6	268.6	290.2	329.0	406.4	464.5	472.9
130°	179.1	188.6	198.1	200.5	229.9	269.1	288.7	323.2	392.1	443.8	451.5
132.5°	185.0	194.5	204.0	206.4	233.4	269.4	287.4	318.2	379.9	426.2	433.2
135°	193.8	202.5	211.2	213.3	237.2	269.1	285.1	310.9	362.6	401.4	407.3
137.5°	202.7	211.3	219.9	222.1	243.0	270.7	284.7	306.6	350.2	383.0	387.8
140°	210.2	218.1	226.0	228.1	246.5	271.0	283.3	302.3	340.0	368.2	372.8
142.5°	216.0	223.3	230.6	232.4	249.4	272.1	283.3	300.0	333.1	357.9	361.8
145°	224.8	231.2	237.5	239.1	253.3	272.1	281.4	295.0	322.1	342.5	345.4
147.5°	233.6	239.8	246.0	247.5	258.8	273.9	281.4	292.1	313.4	329.4	331.9
150°	239.3	245.0	250.5	251.9	261.8	274.8	281.4	290.4	308.5	321.9	323.9
152.5°	245.2	249.4	253.7	254.8	263.7	275.5	281.4	289.1	304.5	316.0	317.5
155°	254.0	257.2	260.3	261.1	267.9	277.0	281.4	287.6	299.8	308.9	309.9
157.5°	260.5	263.6	266.6	267.4	272.1	278.3	281.4	286.2	295.7	302.8	303.5
160°	264.9	267.3	269.7	270.3	274.0	279.0	281.4	285.5	293.7	299.8	300.2
162.5°	269.3	271.1	272.8	273.3	276.0	279.6	281.4	284.9	291.8	296.9	297.3
165°	274.2	275.8	277.4	277.8	279.1	280.7	281.4	283.9	288.8	292.5	292.9
167.5°	278.6	279.3	280.1	280.3	281.3	282.7	283.3	285.0	288.2	290.6	290.8
170°	281.4	282.2	283.0	283.2	283.3	283.3	283.3	285.0	288.2	290.6	290.6
172.5°	283.0	283.2	283.3	283.3	283.3	283.3	283.3	284.6	287.2	289.1	288.9
175°	285.1	285.1	285.1	285.1	284.5	283.7	283.3	284.1	285.7	287.0	287.0
177.5°	285.1	285.1	285.1	285.1	284.6	284.0	283.7	284.4	285.6	286.6	286.4
180°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1

TEST NUMBER: P936604

CATALOG NUMBER: SQ4-FB-025U-125D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	1005.2	1005.2
2.5°	1073.1	1066.6
5°	1380.2	1386.7
7.5°	1858.5	1855.4
10°	2311.1	2340.2
12.5°	2640.8	2647.3
15°	2841.2	2854.1
17.5°	2918.8	2922.0
20°	2922.0	2915.5
22.5°	2886.5	2880.0
25°	2844.5	2841.2
27.5°	2805.6	2808.8
30°	2789.5	2799.2
32.5°	2789.5	2805.6
35°	2796.0	2812.1
37.5°	2792.7	2812.1
40°	2779.8	2802.4
42.5°	2744.2	2760.4
45°	2689.3	2708.7
47.5°	2618.1	2631.1
50°	2527.7	2540.6
52.5°	2414.5	2417.8
55°	2278.7	2291.7
57.5°	2133.3	2136.5
60°	1971.7	1981.4
62.5°	1800.4	1800.4
65°	1619.4	1625.9
67.5°	1431.9	1448.1
70°	1241.2	1244.5
72.5°	1053.7	1053.7
75°	859.8	863.0
77.5°	675.6	675.6
80°	501.0	504.2
82.5°	345.9	352.3
85°	216.6	216.6
87.5°	100.2	90.5
90°	7.3	7.3
92.5°	29.1	23.3
95°	101.5	83.9
97.5°	243.1	209.8
100°	350.4	310.7
102.5°	455.8	421.8
105°	590.3	571.9
107.5°	678.3	682.7
110°	711.9	731.0

TEST NUMBER: P936604

CATALOG NUMBER: SQ4-FB-025U-125D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	714.9	744.1
115°	696.0	736.5
117.5°	655.8	700.8
120°	623.3	667.1
122.5°	591.8	634.9
125°	546.8	586.6
127.5°	506.3	539.9
130°	482.5	513.4
132.5°	460.9	488.6
135°	431.2	455.1
137.5°	407.4	427.0
140°	391.1	409.4
142.5°	377.6	393.3
145°	357.4	369.2
147.5°	341.7	351.6
150°	332.0	340.0
152.5°	323.6	329.6
155°	313.9	317.9
157.5°	306.4	309.1
160°	301.8	303.4
162.5°	298.8	300.3
165°	294.5	296.1
167.5°	291.5	292.1
170°	290.6	290.6
172.5°	288.3	287.7
175°	287.0	287.0
177.5°	285.7	285.1
180°	285.1	285.1

(END OF REPORT)