

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: P936304

Luminaire Tested: SQ4-FB-025U-050D-B40-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936304
REPORT IS A COMBINATION OF REPORTS P933453 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-050D-B40-1D-UNV-W2A-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

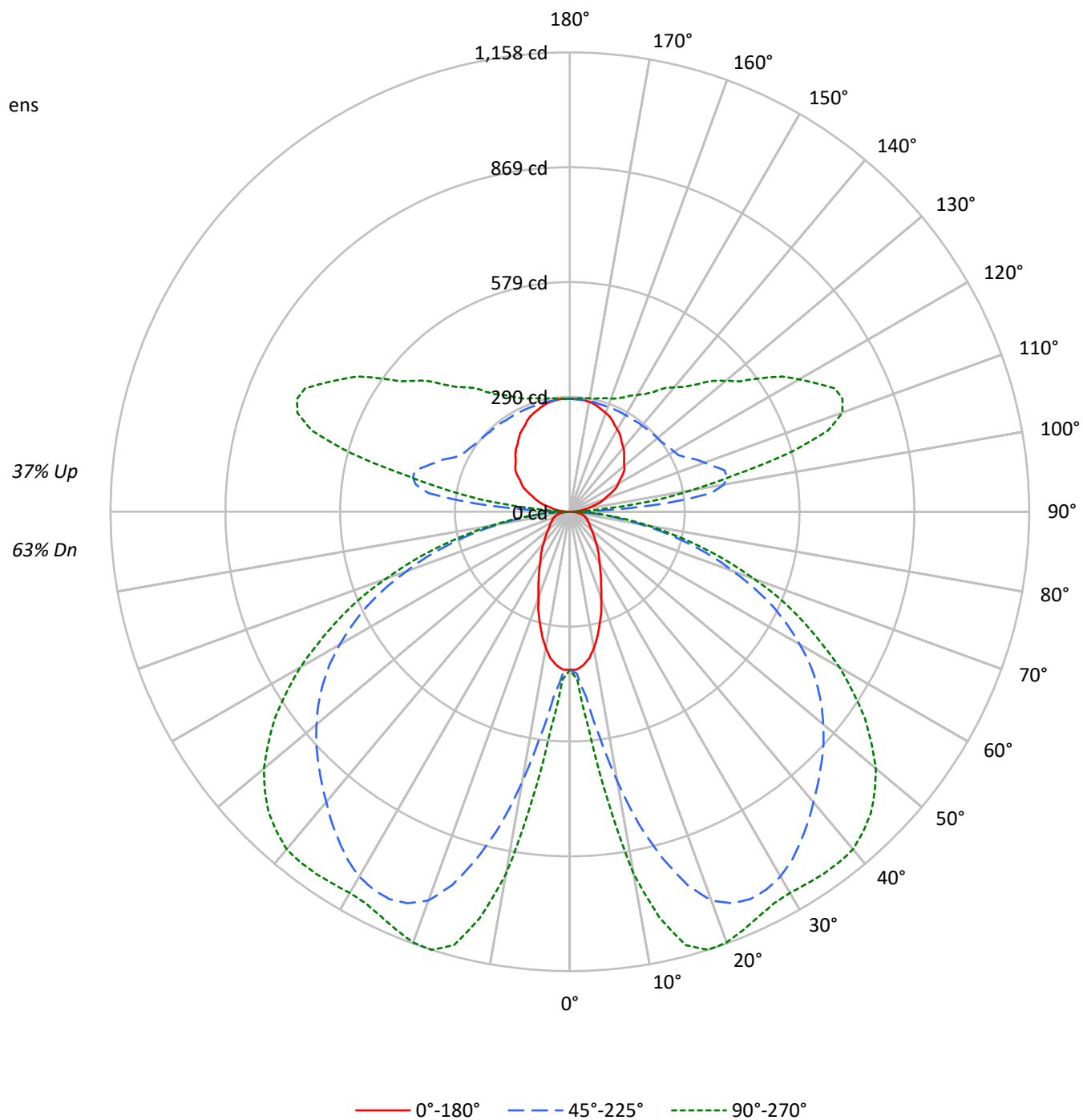
Lumens per Lamp: N/A
Luminaire Lumens: 4930.7 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 44
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: P936304

CATALOG NUMBER: SQ4-FB-025U-050D-B40-1D-UNV-W2A-W-8

Luminous Intensity Polar Plot



TEST NUMBER: P936304

CATALOG NUMBER: SQ4-FB-025U-050D-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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68
1	100	95	91	87	93	89	86	82	78	75	73	68	66	64	59	57	56
2	90	82	76	70	84	77	71	66	68	63	59	59	55	52	51	48	46
3	82	72	64	57	76	67	60	55	59	53	49	51	47	43	44	41	38
4	75	63	54	48	69	59	52	46	52	46	41	45	40	37	39	35	32
5	68	56	47	41	63	52	45	39	46	40	35	40	35	31	35	31	28
6	63	50	41	35	58	47	39	33	41	35	30	36	31	27	31	27	24
7	58	45	36	30	54	42	34	29	37	31	26	33	27	23	28	24	21
8	53	40	32	26	50	38	31	25	34	27	23	30	24	21	26	22	18
9	50	37	29	23	46	35	27	22	31	25	20	27	22	18	24	19	16
10	46	34	26	21	43	32	25	20	28	22	18	25	20	16	22	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1848	1848	1848
5°	1806	2136	2484
10°	1638	3114	4119
15°	1392	4069	4973
20°	1133	4715	5069
25°	945	4933	4965
30°	797	4965	4956
35°	705	4882	5084
40°	614	4775	5217
45°	557	4696	5237
50°	510	4626	5151
55°	489	4522	4922
60°	500	4324	4562
65°	521	4022	4066
70°	555	3508	3436
75°	615	2860	2681
80°	671	1983	1806
85°	596	1053	925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5237 cd/sqm

TEST NUMBER: P936304

CATALOG NUMBER: SQ4-FB-025U-050D-B40-1D-UNV-W2A-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	1.0
10°-20°	228.4	4.6
20°-30°	399.5	8.1
30°-40°	514.2	10.4
40°-50°	574.4	11.6
50°-60°	550.2	11.2
60°-70°	436.0	8.8
70°-80°	256.4	5.2
80°-90°	72.3	1.5
90°-100°	138.9	2.8
100°-110°	365.3	7.4
110°-120°	378.8	7.7
120°-130°	303.8	6.2
130°-140°	238.4	4.8
140°-150°	183.0	3.7
150°-160°	131.8	2.7
160°-170°	80.6	1.6
170°-180°	27.2	0.6
0°-30°	679.4	13.8
0°-40°	1193.6	24.2
0°-60°	2318.2	47.0
0°-90°	3082.9	62.5
90°-120°	883.0	17.9
90°-150°	1608.2	32.6
90°-180°	1848.0	37.5
0°-180°	4930.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	398	398	398	398	398	
5°	388	416	469	530	550	36
15°	291	537	904	1096	1131	81
25°	186	608	1077	1125	1126	86
35°	126	582	1014	1072	1114	78
45°	86	464	897	1027	1073	66
55°	62	295	761	884	908	56
65°	49	156	565	635	644	48
75°	36	96	310	341	342	38
85°	13	29	77	84	86	14
90°	2	5	14	7	7	2
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: P936304

CATALOG NUMBER: SQ4-FB-025U-050D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	398.3	398.3	398.3	398.3	398.3	398.3	398.3	398.3	398.3	398.3	398.3
2.5°	398.3	398.3	400.9	402.2	404.7	406.1	408.6	411.2	418.9	420.1	422.7
5°	388.1	393.3	409.9	416.3	434.2	458.6	468.8	485.4	520.1	530.3	536.7
7.5°	372.7	384.3	425.3	435.5	480.4	544.4	571.3	607.2	662.2	689.1	710.9
10°	348.4	372.7	445.8	470.1	543.1	640.4	690.5	740.4	823.6	860.7	874.9
12.5°	321.5	361.2	467.6	500.8	605.9	748.1	808.3	863.3	958.2	1008.1	1015.7
15°	290.8	344.6	488.0	536.7	672.5	837.7	904.4	972.2	1060.6	1096.4	1105.4
17.5°	263.9	331.8	507.3	558.5	723.7	918.4	986.3	1042.7	1114.4	1138.7	1145.1
20°	230.5	311.2	520.1	586.7	777.6	977.3	1042.7	1086.2	1134.9	1150.3	1152.9
22.5°	206.2	289.5	527.7	596.9	813.4	1013.3	1068.3	1102.9	1136.2	1141.3	1142.6
25°	185.7	265.1	526.5	608.4	844.1	1035.0	1077.2	1102.9	1122.1	1124.7	1124.7
27.5°	166.6	238.3	521.3	611.0	867.2	1040.1	1073.4	1091.4	1100.4	1105.4	1105.4
30°	149.8	212.7	508.5	605.9	877.5	1035.0	1061.9	1070.8	1079.8	1087.6	1091.4
32.5°	137.0	188.3	489.3	595.6	878.7	1022.1	1041.4	1046.5	1059.3	1077.2	1083.6
35°	125.5	164.0	467.6	581.5	871.1	1001.7	1014.5	1019.7	1045.2	1072.2	1081.1
37.5°	114.0	146.0	439.4	557.2	859.5	977.3	986.3	995.3	1035.0	1067.0	1077.2
40°	102.5	130.6	406.1	530.3	841.5	947.9	955.6	969.7	1022.1	1059.3	1069.6
42.5°	93.5	117.8	370.2	502.1	818.5	914.6	926.2	946.6	1006.9	1046.5	1058.0
45°	85.9	105.0	331.8	463.7	789.0	880.0	896.6	924.8	988.9	1027.3	1037.5
47.5°	78.1	96.1	292.0	424.0	757.0	845.5	867.2	899.2	964.6	1001.7	1010.7
50°	71.7	87.1	252.3	381.7	722.5	808.3	833.9	867.2	933.8	968.4	979.9
52.5°	66.6	79.5	215.2	339.4	682.7	769.8	799.3	833.9	896.6	930.0	937.6
55°	61.5	73.1	183.2	294.6	641.8	728.9	760.8	794.2	855.7	883.9	889.0
57.5°	58.9	67.9	156.2	252.3	598.2	682.7	718.6	749.4	807.0	828.7	833.9
60°	55.1	64.1	135.8	216.5	550.8	639.2	669.9	700.7	749.4	767.2	771.2
62.5°	51.3	61.5	120.4	181.9	502.1	588.0	618.6	646.9	687.9	700.7	705.8
65°	48.7	58.9	108.9	156.2	452.2	534.1	564.9	589.2	622.6	635.4	637.9
67.5°	46.1	56.3	99.9	134.5	402.2	480.4	503.4	526.5	552.1	564.9	566.1
70°	42.3	53.8	92.3	119.1	351.0	418.9	438.1	462.4	482.9	489.3	493.2
72.5°	39.7	49.9	87.1	107.6	298.4	359.9	377.9	391.9	409.9	416.3	416.3
75°	35.9	44.8	81.9	96.1	244.7	294.6	310.0	324.0	338.2	340.7	336.9
77.5°	32.0	39.7	70.5	80.7	190.9	233.1	245.9	253.6	265.1	267.7	269.0
80°	26.9	34.6	55.1	62.7	138.4	171.6	180.6	187.0	197.3	197.3	199.8
82.5°	20.5	26.9	39.7	44.8	93.5	117.8	125.5	129.4	135.8	135.8	135.8
85°	12.8	16.6	25.6	29.4	56.3	71.7	76.9	78.1	83.3	84.5	84.5
87.5°	6.4	9.0	16.6	18.0	29.4	37.1	37.1	39.7	39.7	38.4	37.1
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: P936304

CATALOG NUMBER: SQ4-FB-025U-050D-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: P936304

CATALOG NUMBER: SQ4-FB-025U-050D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	398.3	398.3
2.5°	425.3	422.7
5°	546.9	549.5
7.5°	736.5	735.3
10°	915.8	927.4
12.5°	1046.5	1049.1
15°	1125.9	1131.1
17.5°	1156.7	1157.9
20°	1157.9	1155.4
22.5°	1143.9	1141.3
25°	1127.2	1125.9
27.5°	1111.8	1113.1
30°	1105.4	1109.3
32.5°	1105.4	1111.8
35°	1108.0	1114.4
37.5°	1106.7	1114.4
40°	1101.6	1110.6
42.5°	1087.6	1094.0
45°	1065.8	1073.4
47.5°	1037.5	1042.7
50°	1001.7	1006.9
52.5°	956.8	958.2
55°	903.0	908.2
57.5°	845.5	846.7
60°	781.4	785.2
62.5°	713.5	713.5
65°	641.8	644.3
67.5°	567.5	573.9
70°	491.9	493.2
72.5°	417.6	417.6
75°	340.7	342.0
77.5°	267.7	267.7
80°	198.5	199.8
82.5°	137.0	139.6
85°	85.9	85.9
87.5°	39.7	35.9
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: P936304

CATALOG NUMBER: SQ4-FB-025U-050D-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)