

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: P936308

Luminaire Tested: SQ4-FB-025U-050D-B50-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936308
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-B50-1D-UNV-W2A-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

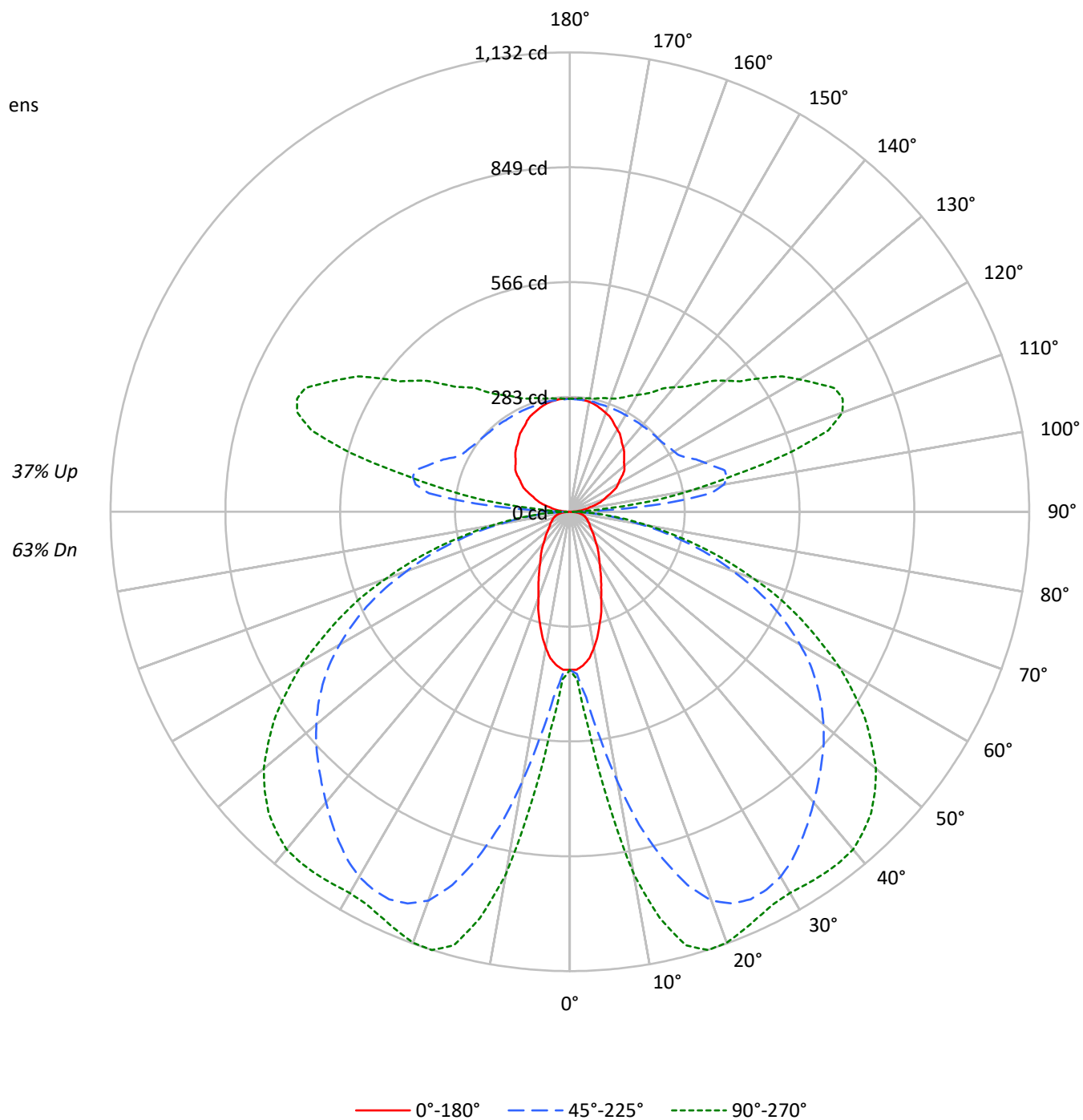
Lumens per Lamp: N/A
Luminaire Lumens: 4822.3 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

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

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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	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°	1808	1808	1808
5°	1766	2089	2430
10°	1602	3046	4028
15°	1361	3979	4864
20°	1108	4611	4957
25°	925	4825	4856
30°	779	4855	4847
35°	689	4775	4973
40°	601	4670	5102
45°	544	4593	5122
50°	499	4525	5037
55°	478	4423	4814
60°	490	4229	4461
65°	509	3934	3977
70°	543	3430	3360
75°	601	2797	2622
80°	656	1939	1766
85°	582	1030	905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5122 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	1.0
10°-20°	223.4	4.6
20°-30°	390.7	8.1
30°-40°	502.9	10.4
40°-50°	561.8	11.6
50°-60°	538.1	11.2
60°-70°	426.4	8.8
70°-80°	250.7	5.2
80°-90°	70.7	1.5
90°-100°	135.9	2.8
100°-110°	357.3	7.4
110°-120°	370.4	7.7
120°-130°	297.1	6.2
130°-140°	233.1	4.8
140°-150°	179.0	3.7
150°-160°	128.9	2.7
160°-170°	78.9	1.6
170°-180°	26.6	0.6
0°-30°	664.5	13.8
0°-40°	1167.4	24.2
0°-60°	2267.2	47.0
0°-90°	3015.1	62.5
90°-120°	863.6	17.9
90°-150°	1572.8	32.6
90°-180°	1807.0	37.5
0°-180°	4822.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	390	390	390	390	390	
5°	380	407	458	519	537	35
15°	284	525	884	1072	1106	79
25°	182	595	1054	1100	1101	84
35°	123	569	992	1049	1090	77
45°	84	454	877	1005	1050	65
55°	60	288	744	864	888	55
65°	48	153	552	621	630	47
75°	35	94	303	333	334	37
85°	12	29	75	83	84	13
90°	2	5	14	7	7	2
95°	18	70	234	121	82	20
105°	64	98	395	600	559	68
115°	114	139	316	631	720	113
125°	159	178	288	486	574	141
135°	190	209	279	393	445	147
145°	220	234	275	335	361	138
155°	248	255	275	302	311	114
165°	268	272	275	286	290	76
175°	279	279	277	281	281	26
180°	279	279	279	279	279	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6
2.5°	389.6	389.6	392.1	393.4	395.8	397.1	399.7	402.2	409.7	410.9	413.4
5°	379.6	384.6	400.9	407.1	424.7	448.5	458.5	474.8	508.7	518.7	524.9
7.5°	364.5	375.8	415.9	425.9	469.8	532.4	558.7	593.8	647.6	674.0	695.3
10°	340.7	364.5	436.0	459.8	531.2	626.3	675.3	724.1	805.5	841.8	855.6
12.5°	314.5	353.2	457.3	489.8	592.5	731.6	790.5	844.3	937.1	985.9	993.4
15°	284.4	337.0	477.3	524.9	657.7	819.3	884.5	950.8	1037.3	1072.3	1081.1
17.5°	258.1	324.5	496.1	546.2	707.8	898.2	964.6	1019.7	1089.9	1113.7	1120.0
20°	225.5	304.4	508.7	573.8	760.5	955.9	1019.7	1062.3	1110.0	1125.0	1127.5
22.5°	201.7	283.1	516.1	583.8	795.5	991.0	1044.8	1078.7	1111.2	1116.2	1117.4
25°	181.7	259.3	514.9	595.1	825.6	1012.3	1053.6	1078.7	1097.4	1100.0	1100.0
27.5°	162.9	233.0	509.9	597.6	848.2	1017.2	1049.8	1067.4	1076.2	1081.1	1081.1
30°	146.5	208.0	497.4	592.5	858.2	1012.3	1038.5	1047.3	1056.1	1063.6	1067.4
32.5°	134.0	184.2	478.6	582.5	859.4	999.7	1018.5	1023.5	1036.0	1053.6	1059.8
35°	122.7	160.4	457.3	568.7	851.9	979.7	992.2	997.2	1022.3	1048.6	1057.3
37.5°	111.5	142.8	429.7	545.0	840.6	955.9	964.6	973.4	1012.3	1043.6	1053.6
40°	100.2	127.8	397.1	518.7	823.0	927.1	934.6	948.4	999.7	1036.0	1046.1
42.5°	91.4	115.3	362.0	491.1	800.5	894.5	905.8	925.8	984.7	1023.5	1034.8
45°	84.0	102.7	324.5	453.5	771.7	860.7	876.9	904.5	967.2	1004.7	1014.7
47.5°	76.4	94.0	285.6	414.7	740.4	826.9	848.2	879.5	943.3	979.7	988.5
50°	70.1	85.2	246.8	373.3	706.6	790.5	815.6	848.2	913.3	947.1	958.4
52.5°	65.1	77.7	210.4	331.9	667.7	752.9	781.8	815.6	876.9	909.5	917.0
55°	60.1	71.5	179.1	288.1	627.6	712.8	744.1	776.7	836.9	864.4	869.5
57.5°	57.6	66.4	152.8	246.8	585.1	667.7	702.8	732.9	789.2	810.5	815.6
60°	53.9	62.7	132.8	211.7	538.7	625.1	655.2	685.3	732.9	750.4	754.2
62.5°	50.2	60.1	117.8	177.9	491.1	575.1	605.0	632.7	672.8	685.3	690.3
65°	47.6	57.6	106.5	152.8	442.2	522.4	552.5	576.3	608.9	621.4	623.9
67.5°	45.1	55.1	97.7	131.5	393.4	469.8	492.3	514.9	539.9	552.5	553.7
70°	41.4	52.6	90.2	116.5	343.2	409.7	428.4	452.2	472.3	478.6	482.3
72.5°	38.9	48.8	85.2	105.3	291.9	352.0	369.6	383.3	400.9	407.1	407.1
75°	35.1	43.8	80.1	94.0	239.3	288.1	303.2	316.9	330.7	333.3	329.5
77.5°	31.3	38.9	68.9	78.9	186.7	228.0	240.5	248.1	259.3	261.8	263.1
80°	26.3	33.8	53.9	61.4	135.3	167.8	176.6	182.9	193.0	193.0	195.4
82.5°	20.1	26.3	38.9	43.8	91.4	115.3	122.7	126.6	132.8	132.8	132.8
85°	12.5	16.3	25.0	28.8	55.1	70.1	75.2	76.4	81.4	82.7	82.7
87.5°	6.3	8.8	16.3	17.6	28.8	36.3	36.3	38.9	38.9	37.5	36.3
90°	1.9	3.4	4.9	5.2	8.2	12.2	14.2	12.6	9.4	7.1	7.1
92.5°	7.5	20.2	33.0	36.1	50.8	70.3	80.0	70.1	50.4	35.6	34.2
95°	17.9	41.2	64.5	70.3	124.9	197.6	234.1	208.8	158.5	120.7	116.4
97.5°	31.1	51.7	72.1	77.2	168.2	289.5	350.2	334.4	302.5	278.6	270.5
100°	41.2	59.8	78.4	83.0	184.0	318.6	385.9	387.1	389.5	391.3	381.5
102.5°	49.8	67.2	84.5	88.8	191.3	327.8	396.1	416.4	456.9	487.4	479.0
105°	64.4	79.1	93.9	97.5	196.7	328.9	395.0	440.5	531.4	599.6	595.1
107.5°	79.3	93.0	106.8	110.2	197.6	314.2	372.5	435.9	562.8	658.0	659.1
110°	89.5	101.8	114.2	117.3	196.1	301.2	353.8	424.7	566.6	672.9	677.6

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	99.4	111.1	122.9	125.9	196.2	289.9	336.8	409.4	554.5	663.4	670.6
115°	114.3	125.2	136.1	138.8	198.0	276.9	316.3	386.3	526.2	631.1	641.0
117.5°	129.1	139.0	148.9	151.4	201.7	268.8	302.3	365.5	491.7	586.4	597.4
120°	137.7	147.0	156.4	158.7	204.7	266.1	296.7	354.4	469.7	556.2	566.8
122.5°	146.1	155.5	164.9	167.3	209.0	264.6	292.4	344.4	448.2	526.1	536.7
125°	159.1	167.7	176.2	178.3	214.8	263.5	287.8	331.9	420.1	486.2	496.0
127.5°	169.5	178.1	186.8	188.9	220.6	262.7	283.8	321.8	397.5	454.3	462.5
130°	175.1	184.5	193.7	196.0	224.8	263.2	282.3	316.1	383.5	434.0	441.6
132.5°	180.9	190.3	199.5	201.8	228.3	263.5	281.0	311.2	371.5	416.8	423.7
135°	189.5	198.0	206.5	208.7	232.0	263.2	278.8	304.1	354.6	392.6	398.4
137.5°	198.3	206.7	215.1	217.2	237.6	264.8	278.4	299.8	342.5	374.5	379.3
140°	205.6	213.3	221.1	223.0	241.1	265.1	277.1	295.6	332.5	360.2	364.6
142.5°	211.3	218.4	225.6	227.3	244.0	266.1	277.1	293.4	325.8	350.1	353.9
145°	219.9	226.1	232.3	233.9	247.7	266.1	275.2	288.5	315.0	334.9	337.8
147.5°	228.5	234.5	240.6	242.1	253.1	267.9	275.2	285.7	306.5	322.1	324.6
150°	234.1	239.6	245.0	246.4	256.0	268.8	275.2	284.0	301.7	314.9	316.8
152.5°	239.9	244.0	248.2	249.2	257.9	269.5	275.2	282.7	297.8	309.1	310.6
155°	248.4	251.5	254.6	255.4	262.0	270.9	275.2	281.2	293.2	302.1	303.1
157.5°	254.8	257.8	260.8	261.5	266.1	272.2	275.2	279.9	289.2	296.2	296.8
160°	259.1	261.4	263.8	264.3	268.0	272.8	275.2	279.3	287.2	293.2	293.6
162.5°	263.4	265.2	266.8	267.3	269.9	273.5	275.2	278.6	285.3	290.4	290.8
165°	268.2	269.7	271.3	271.7	272.9	274.5	275.2	277.7	282.4	286.1	286.5
167.5°	272.4	273.2	273.9	274.1	275.2	276.5	277.1	278.7	281.9	284.2	284.4
170°	275.2	276.0	276.7	276.9	277.0	277.1	277.1	278.7	281.9	284.2	284.2
172.5°	276.7	276.9	277.1	277.1	277.1	277.1	277.1	278.3	280.9	282.7	282.5
175°	278.8	278.8	278.8	278.8	278.2	277.5	277.1	277.9	279.5	280.7	280.7
177.5°	278.8	278.8	278.8	278.8	278.3	277.8	277.5	278.1	279.4	280.3	280.1
180°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	389.6	389.6
2.5°	415.9	413.4
5°	534.9	537.4
7.5°	720.3	719.1
10°	895.7	907.0
12.5°	1023.5	1026.0
15°	1101.2	1106.2
17.5°	1131.3	1132.5
20°	1132.5	1130.0
22.5°	1118.7	1116.2
25°	1102.4	1101.2
27.5°	1087.4	1088.7
30°	1081.1	1084.9
32.5°	1081.1	1087.4
35°	1083.6	1089.9
37.5°	1082.4	1089.9
40°	1077.4	1086.1
42.5°	1063.6	1069.9
45°	1042.3	1049.8
47.5°	1014.7	1019.7
50°	979.7	984.7
52.5°	935.8	937.1
55°	883.2	888.2
57.5°	826.9	828.1
60°	764.2	767.9
62.5°	697.8	697.8
65°	627.6	630.2
67.5°	555.0	561.2
70°	481.1	482.3
72.5°	408.4	408.4
75°	333.3	334.5
77.5°	261.8	261.8
80°	194.2	195.4
82.5°	134.0	136.6
85°	84.0	84.0
87.5°	38.9	35.1
90°	7.1	7.1
92.5°	28.5	22.8
95°	99.3	82.1
97.5°	237.8	205.2
100°	342.7	303.8
102.5°	445.8	412.5
105°	577.3	559.4
107.5°	663.4	667.7
110°	696.2	714.9

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	699.2	727.8
115°	680.7	720.3
117.5°	641.4	685.4
120°	609.6	652.4
122.5°	578.8	620.9
125°	534.8	573.7
127.5°	495.2	528.0
130°	471.9	502.1
132.5°	450.7	477.8
135°	421.7	445.1
137.5°	398.4	417.6
140°	382.5	400.4
142.5°	369.3	384.6
145°	349.5	361.1
147.5°	334.2	343.9
150°	324.7	332.5
152.5°	316.4	322.3
155°	307.0	310.9
157.5°	299.6	302.3
160°	295.1	296.7
162.5°	292.2	293.7
165°	288.0	289.6
167.5°	285.1	285.7
170°	284.2	284.2
172.5°	282.0	281.4
175°	280.7	280.7
177.5°	279.5	278.8
180°	278.8	278.8

(END OF REPORT)