

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P937070

Luminaire Tested: SQ4-FB-075U-050D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937070
REPORT IS A COMBINATION OF REPORTS P933501 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

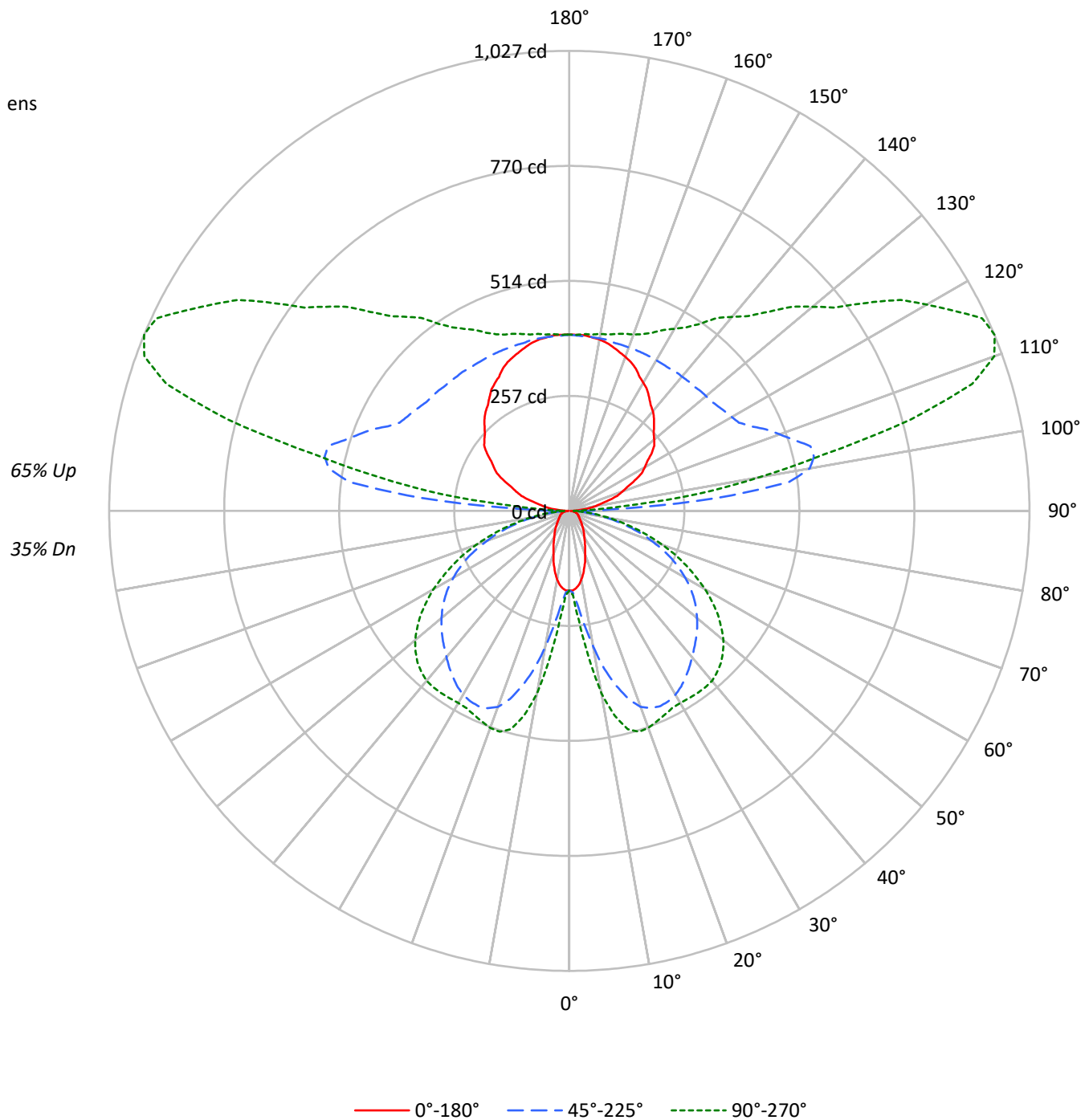
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3927.8 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.4
Input Voltage (V): NR
Input Current (A_{in}): 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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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.0	0.6
10°-20°	101.9	2.6
20°-30°	178.3	4.5
30°-40°	229.5	5.8
40°-50°	256.3	6.5
50°-60°	245.5	6.2
60°-70°	194.5	5.0
70°-80°	114.4	2.9
80°-90°	33.3	0.8
90°-100°	191.8	4.9
100°-110°	504.3	12.8
110°-120°	522.9	13.3
120°-130°	419.5	10.7
130°-140°	329.1	8.4
140°-150°	252.6	6.4
150°-160°	181.9	4.6
160°-170°	111.3	2.8
170°-180°	37.6	1.0
0°-30°	303.2	7.7
0°-40°	532.6	13.6
0°-60°	1034.4	26.3
0°-90°	1376.6	35.0
90°-120°	1219.1	31.0
90°-150°	2220.3	56.5
90°-180°	2551.0	64.9
0°-180°	3927.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	178	178	178	178	178	
5°	173	186	209	237	245	16
15°	130	240	404	489	505	36
25°	83	272	481	502	502	38
35°	56	260	453	478	497	35
45°	38	207	400	458	479	30
55°	27	132	340	394	405	25
65°	22	70	252	284	288	21
75°	16	43	138	152	153	17
85°	6	13	34	38	38	6
90°	3	7	20	10	10	3
95°	25	99	330	170	116	28
105°	91	138	558	846	790	96
115°	161	196	447	891	1017	159
125°	224	252	406	686	810	199
135°	268	294	394	554	628	207
145°	310	330	388	473	510	194
155°	351	360	388	426	439	161
165°	378	384	388	404	409	107
175°	394	394	391	396	396	37
180°	394	394	394	394	394	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	177.7	177.7	177.7	177.7	177.7	177.7	177.7	177.7	177.7	177.7	177.7
2.5°	177.7	177.7	178.9	179.4	180.6	181.2	182.3	183.4	186.9	187.4	188.6
5°	173.2	175.5	182.9	185.7	193.7	204.7	209.2	216.7	232.1	236.6	239.5
7.5°	166.3	171.5	189.7	194.3	214.4	242.9	254.9	270.9	295.5	307.5	317.2
10°	155.5	166.3	198.9	209.8	242.3	285.8	308.1	330.4	367.6	384.1	390.4
12.5°	143.5	161.2	208.7	223.5	270.3	333.8	360.7	385.3	427.5	449.9	453.3
15°	129.8	153.8	217.8	239.5	300.1	373.8	403.5	433.8	473.3	489.2	493.2
17.5°	117.7	148.1	226.4	249.2	322.9	409.8	440.1	465.3	497.2	508.1	510.9
20°	102.9	138.9	232.1	261.8	346.9	436.1	465.3	484.7	506.4	513.2	514.4
22.5°	92.0	129.2	235.5	266.3	363.0	452.1	476.7	492.1	506.9	509.2	509.8
25°	82.9	118.3	234.9	271.5	376.7	461.8	480.7	492.1	500.7	501.8	501.8
27.5°	74.3	106.3	232.6	272.6	387.0	464.1	479.0	487.0	491.0	493.2	493.2
30°	66.9	94.9	226.9	270.3	391.5	461.8	473.8	477.8	481.8	485.3	487.0
32.5°	61.2	84.0	218.4	265.7	392.1	456.1	464.7	467.0	472.7	480.7	483.5
35°	56.0	73.2	208.7	259.5	388.7	447.0	452.7	455.0	466.4	478.4	482.4
37.5°	50.9	65.2	196.0	248.6	383.5	436.1	440.1	444.1	461.8	476.1	480.7
40°	45.8	58.3	181.2	236.6	375.6	422.9	426.4	432.6	456.1	472.7	477.3
42.5°	41.7	52.6	165.2	224.1	365.3	408.1	413.2	422.4	449.3	467.0	472.1
45°	38.3	46.9	148.1	206.9	352.0	392.7	400.1	412.7	441.3	458.4	463.0
47.5°	34.8	42.9	130.4	189.2	337.8	377.3	387.0	401.2	430.4	447.0	451.0
50°	32.0	38.9	112.6	170.3	322.4	360.7	372.1	387.0	416.7	432.1	437.2
52.5°	29.7	35.4	96.0	151.5	304.7	343.5	356.6	372.1	400.1	414.9	418.4
55°	27.4	32.5	81.7	131.5	286.4	325.2	339.5	354.3	381.8	394.4	396.7
57.5°	26.3	30.3	69.7	112.6	266.9	304.7	320.6	334.3	360.1	369.8	372.1
60°	24.5	28.5	60.6	96.6	245.8	285.2	299.0	312.7	334.3	342.3	344.1
62.5°	22.8	27.4	53.8	81.2	224.1	262.3	276.0	288.7	306.9	312.7	314.9
65°	21.7	26.3	48.6	69.7	201.8	238.3	252.0	262.9	277.8	283.5	284.7
67.5°	20.6	25.1	44.6	60.0	179.4	214.4	224.6	234.9	246.3	252.0	252.6
70°	18.8	24.0	41.2	53.2	156.6	186.9	195.4	206.4	215.5	218.4	220.1
72.5°	17.7	22.3	38.9	48.1	133.2	160.6	168.6	174.9	182.9	185.7	185.7
75°	16.0	20.0	36.6	42.9	109.1	131.5	138.3	144.6	150.9	152.0	150.3
77.5°	14.3	17.7	31.4	36.0	85.2	104.0	109.7	113.1	118.3	119.5	120.0
80°	12.0	15.4	24.5	28.0	61.8	76.6	80.6	83.4	88.0	88.0	89.2
82.5°	9.1	12.0	17.7	20.0	41.7	52.6	56.0	57.8	60.6	60.6	60.6
85°	5.7	7.4	11.4	13.1	25.1	32.0	34.3	34.8	37.1	37.7	37.7
87.5°	2.9	4.0	7.4	8.0	13.1	16.6	16.6	17.7	17.7	17.1	16.6
90°	2.6	4.8	6.9	7.4	11.7	17.3	20.1	17.9	13.4	10.1	10.1
92.5°	10.6	28.5	46.4	50.9	71.7	99.3	113.1	99.1	71.1	50.2	48.2
95°	25.4	58.3	91.2	99.3	176.4	279.0	330.4	294.8	223.6	170.3	164.3
97.5°	43.9	72.8	101.8	109.1	237.5	408.8	494.4	471.9	427.0	393.3	381.8
100°	58.1	84.3	110.7	117.2	259.8	449.9	544.9	546.5	549.8	552.3	538.5
102.5°	70.3	94.8	119.3	125.4	270.0	462.8	559.2	587.8	645.0	688.0	676.2
105°	90.8	111.6	132.4	137.6	277.6	464.3	557.5	621.8	750.2	846.5	840.2
107.5°	112.0	131.4	150.7	155.6	279.0	443.6	525.9	615.4	794.5	928.9	930.4
110°	126.3	143.7	161.3	165.6	276.9	425.2	499.4	599.6	799.8	950.0	956.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	140.2	156.9	173.6	177.7	277.0	409.3	475.4	577.9	782.8	936.5	946.7
115°	161.4	176.7	192.1	196.0	279.5	390.9	446.6	545.4	742.8	890.9	904.8
117.5°	182.2	196.2	210.2	213.7	284.7	379.4	426.8	515.9	694.0	827.7	843.2
120°	194.4	207.5	220.7	224.0	288.9	375.6	418.8	500.3	663.1	785.2	800.3
122.5°	206.3	219.6	232.8	236.1	295.0	373.5	412.8	486.1	632.7	742.7	757.6
125°	224.5	236.6	248.7	251.7	303.2	371.9	406.2	468.5	593.1	686.5	700.2
127.5°	239.3	251.5	263.7	266.8	311.4	371.0	400.7	454.2	561.1	641.3	652.9
130°	247.3	260.4	273.5	276.8	317.4	371.5	398.6	446.2	541.4	612.8	623.4
132.5°	255.4	268.6	281.7	285.0	322.2	371.9	396.7	439.3	524.6	588.5	598.0
135°	267.5	279.5	291.5	294.5	327.5	371.6	393.5	429.2	500.6	554.1	562.4
137.5°	280.0	291.8	303.7	306.6	335.4	373.9	393.0	423.2	483.5	528.8	535.5
140°	290.3	301.2	312.1	314.8	340.3	374.2	391.2	417.2	469.3	508.4	514.7
142.5°	298.2	308.3	318.3	320.9	344.3	375.6	391.2	414.1	459.8	494.2	499.6
145°	310.3	319.2	327.9	330.2	349.6	375.6	388.5	407.3	444.7	472.8	476.9
147.5°	322.5	331.0	339.6	341.7	357.3	378.1	388.5	403.3	432.7	454.8	458.2
150°	330.4	338.2	345.9	347.9	361.4	379.5	388.5	401.0	425.8	444.5	447.2
152.5°	338.6	344.5	350.3	351.8	364.1	380.3	388.5	399.2	420.4	436.3	438.4
155°	350.8	355.1	359.4	360.5	369.9	382.3	388.5	396.9	413.8	426.5	427.9
157.5°	359.7	364.0	368.2	369.3	375.6	384.3	388.5	395.1	408.2	418.1	419.0
160°	365.8	369.1	372.3	373.2	378.3	385.1	388.5	394.1	405.5	413.9	414.4
162.5°	371.9	374.4	376.8	377.4	381.1	386.0	388.5	393.3	402.7	409.9	410.4
165°	378.5	380.7	382.9	383.5	385.2	387.4	388.5	391.9	398.7	403.8	404.4
167.5°	384.5	385.5	386.6	386.9	388.3	390.2	391.2	393.4	397.9	401.2	401.5
170°	388.5	389.5	390.6	390.9	391.0	391.1	391.2	393.4	397.9	401.2	401.2
172.5°	390.6	390.9	391.1	391.2	391.2	391.2	391.2	392.9	396.4	399.1	398.9
175°	393.5	393.5	393.5	393.5	392.8	391.7	391.2	392.3	394.5	396.2	396.2
177.5°	393.5	393.5	393.5	393.5	392.9	392.1	391.7	392.5	394.3	395.7	395.4
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	177.7	177.7
2.5°	189.7	188.6
5°	244.1	245.2
7.5°	328.6	328.1
10°	408.7	413.8
12.5°	467.0	468.1
15°	502.4	504.7
17.5°	516.1	516.7
20°	516.7	515.5
22.5°	510.4	509.2
25°	503.0	502.4
27.5°	496.1	496.7
30°	493.2	495.0
32.5°	493.2	496.1
35°	494.4	497.2
37.5°	493.8	497.2
40°	491.5	495.5
42.5°	485.3	488.1
45°	475.5	479.0
47.5°	463.0	465.3
50°	447.0	449.3
52.5°	426.9	427.5
55°	403.0	405.2
57.5°	377.3	377.8
60°	348.6	350.3
62.5°	318.4	318.4
65°	286.4	287.5
67.5°	253.2	256.0
70°	219.5	220.1
72.5°	186.3	186.3
75°	152.0	152.6
77.5°	119.5	119.5
80°	88.6	89.2
82.5°	61.2	62.3
85°	38.3	38.3
87.5°	17.7	16.0
90°	10.1	10.1
92.5°	40.2	32.2
95°	140.2	116.0
97.5°	335.8	289.8
100°	483.8	428.9
102.5°	629.3	582.3
105°	814.9	789.7
107.5°	936.5	942.7
110°	982.9	1009.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	987.0	1027.4
115°	960.9	1016.9
117.5°	905.3	967.4
120°	860.6	920.9
122.5°	817.1	876.6
125°	755.0	809.7
127.5°	699.1	745.3
130°	666.2	708.9
132.5°	636.3	674.5
135°	595.4	628.4
137.5°	562.5	589.5
140°	540.0	565.2
142.5°	521.3	543.0
145°	493.3	509.8
147.5°	471.8	485.5
150°	458.3	469.4
152.5°	446.7	455.1
155°	433.4	439.0
157.5°	422.9	426.8
160°	416.6	418.8
162.5°	412.5	414.7
165°	406.7	408.9
167.5°	402.4	403.3
170°	401.2	401.2
172.5°	398.1	397.2
175°	396.2	396.2
177.5°	394.5	393.5
180°	393.5	393.5



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	1.18	1.94	2.25	3.02	4.49	14.32	15.08	15.39	16.16	17.63
	3H	1.88	2.56	2.95	3.65	5.13	16.14	16.82	17.21	17.91	19.39
	4H	2.17	2.82	3.26	3.91	5.40	16.77	17.42	17.86	18.50	19.99
	6H	2.42	3.02	3.51	4.11	5.61	17.18	17.78	18.28	18.87	20.37
	8H	2.48	3.05	3.58	4.16	5.65	17.29	17.86	18.39	18.97	20.47
	12H	2.49	3.04	3.60	4.14	5.66	17.35	17.89	18.46	18.99	20.51
4H	2H	8.36	9.01	9.45	10.09	11.59	14.58	15.24	15.68	16.32	17.81
	3H	9.92	10.46	11.02	11.58	13.08	16.60	17.15	17.71	18.26	19.77
	4H	10.01	10.51	11.12	11.61	13.14	17.36	17.86	18.47	18.96	20.48
	6H	10.01	10.45	11.13	11.57	13.09	17.88	18.31	18.99	19.43	20.95
	8H	9.99	10.39	11.11	11.51	13.04	18.03	18.43	19.15	19.55	21.08
	12H	9.94	10.31	11.07	11.44	12.97	18.11	18.48	19.24	19.61	21.14
8H	4H	11.44	11.84	12.55	12.96	14.49	17.41	17.81	18.53	18.93	20.46
	6H	11.67	12.01	12.81	13.17	14.70	18.02	18.35	19.16	19.51	21.04
	8H	11.69	11.98	12.84	13.12	14.67	18.23	18.52	19.38	19.66	21.21
	12H	11.65	11.91	12.80	13.05	14.63	18.36	18.62	19.51	19.76	21.34
12H	4H	11.57	11.94	12.70	13.07	14.60	17.36	17.72	18.49	18.85	20.39
	6H	11.93	12.22	13.07	13.36	14.91	18.00	18.30	19.15	19.44	20.99
	8H	11.99	12.25	13.14	13.38	14.97	18.22	18.48	19.37	19.61	21.20