

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: P936698

Luminaire Tested: SQ4-FB-050U-050D-B35-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936698
REPORT IS A COMBINATION OF REPORTS P933469 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-050U-050D-B35-1D-UNV-W2A-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

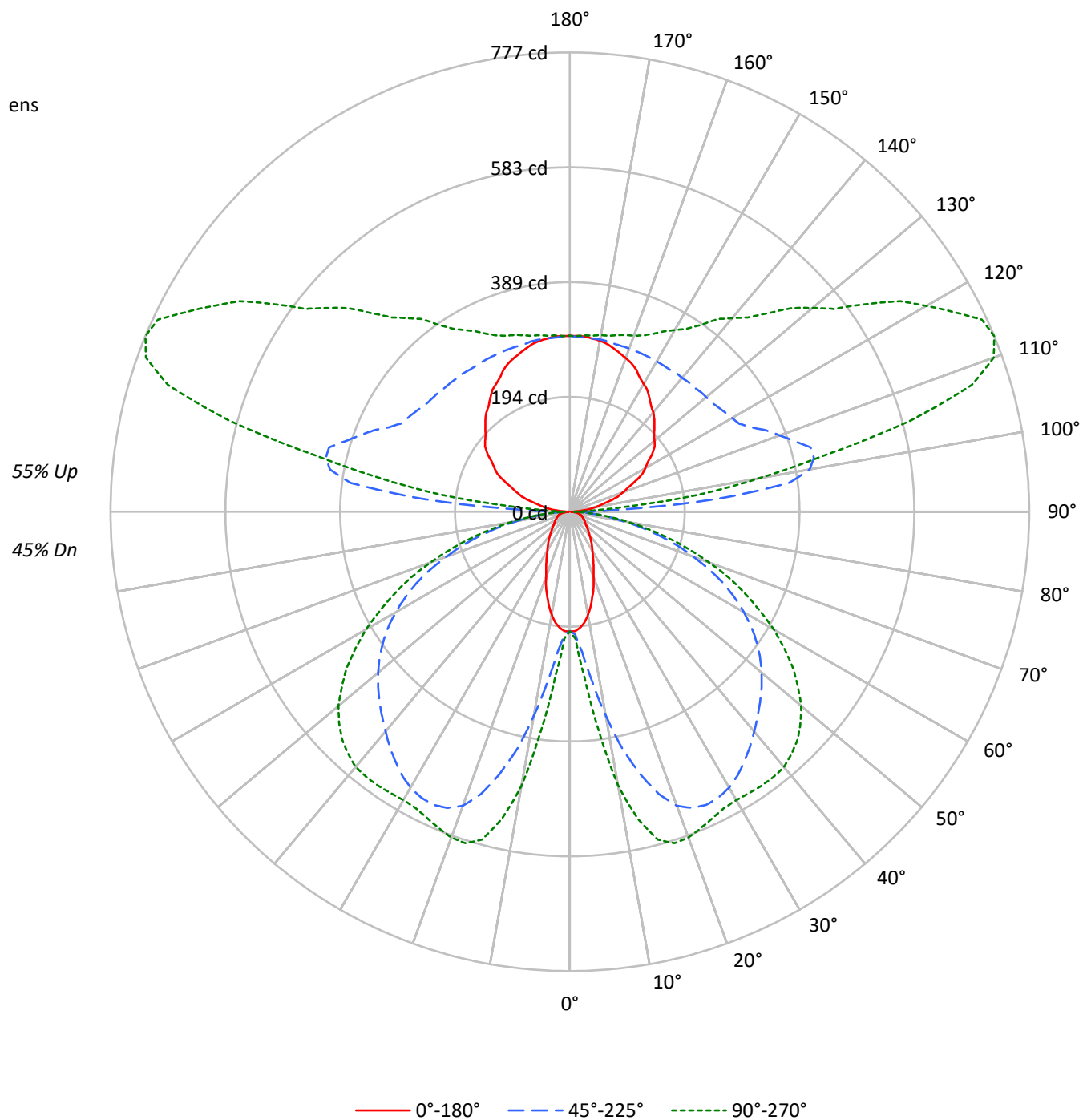
Lumens per Lamp: N/A
Luminaire Lumens: 3494.2 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 28.4
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	92	88	84	88	84	81	77	70	67	65	57	55	53	45	43	42
2	87	79	73	68	79	73	67	63	60	56	53	49	46	44	39	37	35
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25
5	66	54	46	39	60	50	42	37	41	36	31	34	29	26	26	23	21
6	60	48	40	34	55	44	37	31	37	31	27	30	26	22	24	21	18
7	56	43	35	29	51	40	32	27	33	28	23	27	23	20	21	18	16
8	51	39	31	26	47	36	29	24	30	25	21	25	20	17	20	16	14
9	48	35	28	23	44	33	26	21	27	22	18	23	18	15	18	15	12
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1875	1875	1875
5°	1831	2166	2522
10°	1659	3156	4180
15°	1408	4120	5048
20°	1146	4772	5144
25°	954	4989	5040
30°	804	5017	5031
35°	709	4929	5160
40°	617	4818	5295
45°	557	4733	5316
50°	510	4658	5228
55°	487	4548	4996
60°	496	4343	4630
65°	515	4032	4126
70°	543	3510	3487
75°	597	2854	2720
80°	641	1973	1835
85°	538	1044	937

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5316 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	0.7
10°-20°	115.9	3.3
20°-30°	202.7	5.8
30°-40°	261.0	7.5
40°-50°	291.5	8.3
50°-60°	279.2	8.0
60°-70°	221.2	6.3
70°-80°	130.1	3.7
80°-90°	37.3	1.1
90°-100°	145.0	4.2
100°-110°	381.4	10.9
110°-120°	395.4	11.3
120°-130°	317.2	9.1
130°-140°	248.9	7.1
140°-150°	191.0	5.5
150°-160°	137.6	3.9
160°-170°	84.2	2.4
170°-180°	28.4	0.8
0°-30°	344.8	9.9
0°-40°	605.8	17.3
0°-60°	1176.5	33.7
0°-90°	1565.1	44.8
90°-120°	921.8	26.4
90°-150°	1678.9	48.0
90°-180°	1929.0	55.2
0°-180°	3494.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	202	202	202	202	202	
5°	197	211	238	269	279	18
15°	148	272	459	556	574	41
25°	94	309	547	571	571	43
35°	64	295	515	544	566	40
45°	44	235	455	521	545	34
55°	31	150	386	449	461	28
65°	25	79	287	322	327	24
75°	18	49	157	173	174	19
85°	6	15	39	43	44	7
90°	2	6	15	8	8	2
95°	19	75	250	129	88	21
105°	69	104	422	640	597	73
115°	122	148	338	674	769	120
125°	170	190	307	519	612	151
135°	202	223	298	419	475	157
145°	235	250	294	358	386	147
155°	265	273	294	323	332	122
165°	286	290	294	305	309	81
175°	298	298	296	300	300	28
180°	298	298	298	298	298	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	202.1	202.1	202.1	202.1	202.1	202.1	202.1	202.1	202.1	202.1	202.1
2.5°	202.1	202.1	203.5	204.1	205.4	206.1	207.4	208.6	212.6	213.2	214.5
5°	197.0	199.6	208.0	211.2	220.4	232.8	237.9	246.4	264.0	269.1	272.4
7.5°	189.1	195.1	215.8	221.0	243.8	276.3	289.9	308.1	336.0	349.7	360.8
10°	176.8	189.1	226.3	238.6	275.6	325.0	350.4	375.8	418.0	436.8	444.0
12.5°	163.2	183.3	237.3	254.2	307.5	379.7	410.2	438.2	486.2	511.6	515.5
15°	147.6	174.9	247.7	272.4	341.3	425.1	458.9	493.4	538.3	556.4	561.0
17.5°	133.9	168.4	257.5	283.4	367.3	466.1	500.6	529.2	565.5	577.9	581.1
20°	117.1	157.9	264.0	297.8	394.6	496.0	529.2	551.3	576.0	583.7	585.1
22.5°	104.7	146.9	267.8	302.9	412.8	514.2	542.2	559.7	576.6	579.2	579.8
25°	94.3	134.6	267.2	308.8	428.4	525.2	546.7	559.7	569.5	570.7	570.7
27.5°	84.5	120.9	264.5	310.1	440.1	527.8	544.8	553.9	558.4	561.0	561.0
30°	76.1	107.9	258.0	307.5	445.3	525.2	538.9	543.4	548.0	551.9	553.9
32.5°	69.6	95.5	248.4	302.2	445.9	518.7	528.5	531.1	537.6	546.7	549.9
35°	63.7	83.2	237.3	295.2	442.1	508.3	514.8	517.4	530.4	544.1	548.6
37.5°	57.8	74.1	223.0	282.8	436.1	496.0	500.6	505.1	525.2	541.5	546.7
40°	52.0	66.3	206.1	269.1	427.1	481.0	485.0	492.1	518.7	537.6	542.8
42.5°	47.5	59.8	187.9	254.8	415.4	464.2	470.0	480.4	511.0	531.1	536.9
45°	43.5	53.3	168.4	235.3	400.4	446.6	455.0	469.4	501.8	521.3	526.6
47.5°	39.6	48.7	148.3	215.2	384.2	429.1	440.1	456.3	489.5	508.3	512.9
50°	36.4	44.2	128.1	193.7	366.7	410.2	423.2	440.1	473.9	491.5	497.3
52.5°	33.8	40.3	109.2	172.3	346.5	390.7	405.6	423.2	455.0	471.9	475.9
55°	31.2	37.0	92.9	149.5	325.7	369.9	386.1	403.0	434.2	448.6	451.2
57.5°	29.9	34.5	79.3	128.1	303.6	346.5	364.6	380.2	409.5	420.5	423.2
60°	27.9	32.5	68.9	109.9	279.6	324.4	340.0	355.6	380.2	389.3	391.4
62.5°	26.0	31.2	61.1	92.3	254.8	298.4	314.0	328.3	349.0	355.6	358.1
65°	24.7	29.9	55.2	79.3	229.5	271.0	286.6	299.0	315.9	322.4	323.7
67.5°	23.4	28.6	50.7	68.2	204.1	243.8	255.4	267.2	280.1	286.6	287.3
70°	21.4	27.3	46.8	60.5	178.1	212.6	222.3	234.7	245.1	248.4	250.3
72.5°	20.2	25.4	44.2	54.7	151.5	182.7	191.8	198.9	208.0	211.2	211.2
75°	18.2	22.8	41.6	48.7	124.1	149.5	157.3	164.4	171.6	172.9	170.9
77.5°	16.3	20.2	35.8	41.0	96.9	118.3	124.8	128.7	134.6	135.9	136.5
80°	13.7	17.5	27.9	31.9	70.3	87.1	91.7	94.9	100.1	100.1	101.5
82.5°	10.4	13.7	20.2	22.8	47.5	59.8	63.7	65.7	68.9	68.9	68.9
85°	6.5	8.4	13.0	14.9	28.6	36.4	39.1	39.6	42.2	42.9	42.9
87.5°	3.3	4.6	8.4	9.1	14.9	18.9	18.9	20.2	20.2	19.5	18.9
90°	2.0	3.6	5.2	5.6	8.8	13.1	15.2	13.5	10.1	7.6	7.6
92.5°	7.9	21.5	35.2	38.6	54.2	75.0	85.5	74.9	53.8	38.0	36.4
95°	19.2	44.0	68.9	75.1	133.3	211.0	249.8	222.9	169.1	128.8	124.2
97.5°	33.1	55.0	76.9	82.5	179.6	309.1	373.8	356.9	322.9	297.4	288.7
100°	43.9	63.8	83.7	88.7	196.4	340.1	412.0	413.3	415.8	417.6	407.3
102.5°	53.1	71.7	90.2	94.9	204.2	349.9	422.8	444.5	487.8	520.3	511.3
105°	68.7	84.4	100.1	104.1	209.9	351.1	421.6	470.2	567.3	640.1	635.4
107.5°	84.7	99.3	114.0	117.6	211.0	335.5	397.7	465.4	600.9	702.4	703.6
110°	95.4	108.6	121.9	125.2	209.4	321.6	377.7	453.4	604.8	718.4	723.4

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	106.0	118.6	131.2	134.4	209.4	309.5	359.5	437.0	592.0	708.2	715.9
115°	122.0	133.6	145.3	148.2	211.3	295.5	337.7	412.3	561.6	673.6	684.2
117.5°	137.8	148.4	158.9	161.5	215.3	286.9	322.8	390.1	524.8	625.9	637.6
120°	147.0	157.0	166.9	169.4	218.5	284.0	316.8	378.3	501.5	593.8	605.2
122.5°	156.0	166.1	176.1	178.6	223.1	282.5	312.1	367.5	478.5	561.6	572.9
125°	169.8	178.9	188.0	190.3	229.3	281.2	307.2	354.3	448.5	519.1	529.5
127.5°	180.9	190.2	199.4	201.7	235.5	280.5	303.0	343.4	424.2	484.9	493.6
130°	186.9	196.9	206.8	209.3	240.0	280.9	301.4	337.4	409.4	463.4	471.4
132.5°	193.1	203.1	213.0	215.5	243.7	281.2	300.0	332.2	396.6	445.0	452.2
135°	202.3	211.3	220.4	222.7	247.7	280.9	297.6	324.5	378.5	419.0	425.2
137.5°	211.7	220.6	229.7	231.9	253.7	282.7	297.2	320.0	365.6	399.8	404.9
140°	219.5	227.7	236.0	238.1	257.3	282.9	295.7	315.5	354.9	384.5	389.2
142.5°	225.5	233.1	240.7	242.6	260.4	283.9	295.7	313.1	347.7	373.6	377.7
145°	234.7	241.3	248.0	249.6	264.3	284.0	293.8	307.9	336.2	357.5	360.6
147.5°	243.9	250.4	256.8	258.4	270.3	286.0	293.8	304.9	327.2	343.9	346.5
150°	249.8	255.6	261.5	263.0	273.3	286.9	293.8	303.2	322.0	336.1	338.3
152.5°	256.0	260.5	264.9	266.0	275.3	287.6	293.8	301.8	317.9	329.9	331.5
155°	265.2	268.5	271.8	272.6	279.7	289.1	293.8	300.2	313.0	322.6	323.6
157.5°	272.0	275.2	278.4	279.2	284.0	290.5	293.8	298.7	308.7	316.2	317.0
160°	276.6	279.1	281.6	282.2	286.0	291.2	293.8	298.1	306.6	313.0	313.4
162.5°	281.2	283.0	284.9	285.4	288.2	292.0	293.8	297.4	304.6	310.0	310.4
165°	286.2	287.9	289.6	290.0	291.3	292.9	293.8	296.3	301.5	305.3	305.7
167.5°	290.8	291.6	292.3	292.5	293.6	295.1	295.7	297.5	300.9	303.4	303.6
170°	293.8	294.6	295.4	295.5	295.6	295.7	295.7	297.5	300.9	303.4	303.4
172.5°	295.4	295.5	295.7	295.7	295.7	295.7	295.7	297.1	299.7	301.7	301.6
175°	297.6	297.6	297.6	297.6	297.0	296.1	295.7	296.6	298.4	299.6	299.6
177.5°	297.6	297.6	297.6	297.6	297.1	296.5	296.2	296.9	298.3	299.2	299.0
180°	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	202.1	202.1
2.5°	215.8	214.5
5°	277.6	278.9
7.5°	373.7	373.2
10°	464.8	470.6
12.5°	531.1	532.4
15°	571.4	574.0
17.5°	587.0	587.7
20°	587.7	586.3
22.5°	580.5	579.2
25°	572.1	571.4
27.5°	564.2	564.9
30°	561.0	563.0
32.5°	561.0	564.2
35°	562.3	565.5
37.5°	561.6	565.5
40°	559.0	563.6
42.5°	551.9	555.1
45°	540.8	544.8
47.5°	526.6	529.2
50°	508.3	511.0
52.5°	485.6	486.2
55°	458.3	460.9
57.5°	429.1	429.7
60°	396.5	398.5
62.5°	362.1	362.1
65°	325.7	326.9
67.5°	288.0	291.2
70°	249.6	250.3
72.5°	211.9	211.9
75°	172.9	173.5
77.5°	135.9	135.9
80°	100.8	101.5
82.5°	69.6	70.8
85°	43.5	43.5
87.5°	20.2	18.2
90°	7.6	7.6
92.5°	30.4	24.3
95°	105.9	87.7
97.5°	253.9	219.1
100°	365.8	324.3
102.5°	475.9	440.4
105°	616.3	597.2
107.5°	708.1	712.8
110°	743.2	763.1

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	746.4	776.9
115°	726.6	768.9
117.5°	684.6	731.6
120°	650.8	696.4
122.5°	617.9	662.9
125°	570.8	612.3
127.5°	528.6	563.6
130°	503.8	536.1
132.5°	481.1	510.1
135°	450.2	475.1
137.5°	425.3	445.7
140°	408.3	427.4
142.5°	394.2	410.7
145°	373.1	385.5
147.5°	356.8	367.1
150°	346.6	354.9
152.5°	337.8	344.1
155°	327.8	332.0
157.5°	319.9	322.8
160°	315.1	316.8
162.5°	312.0	313.6
165°	307.5	309.2
167.5°	304.3	304.9
170°	303.4	303.4
172.5°	301.0	300.4
175°	299.6	299.6
177.5°	298.4	297.6
180°	297.6	297.6

(END OF REPORT)