

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: P937198

Luminaire Tested: SQ4-FB-075U-075D-B35-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937198
REPORT IS A COMBINATION OF REPORTS P933502 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-075D-B35-1D-UNV-W2A-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

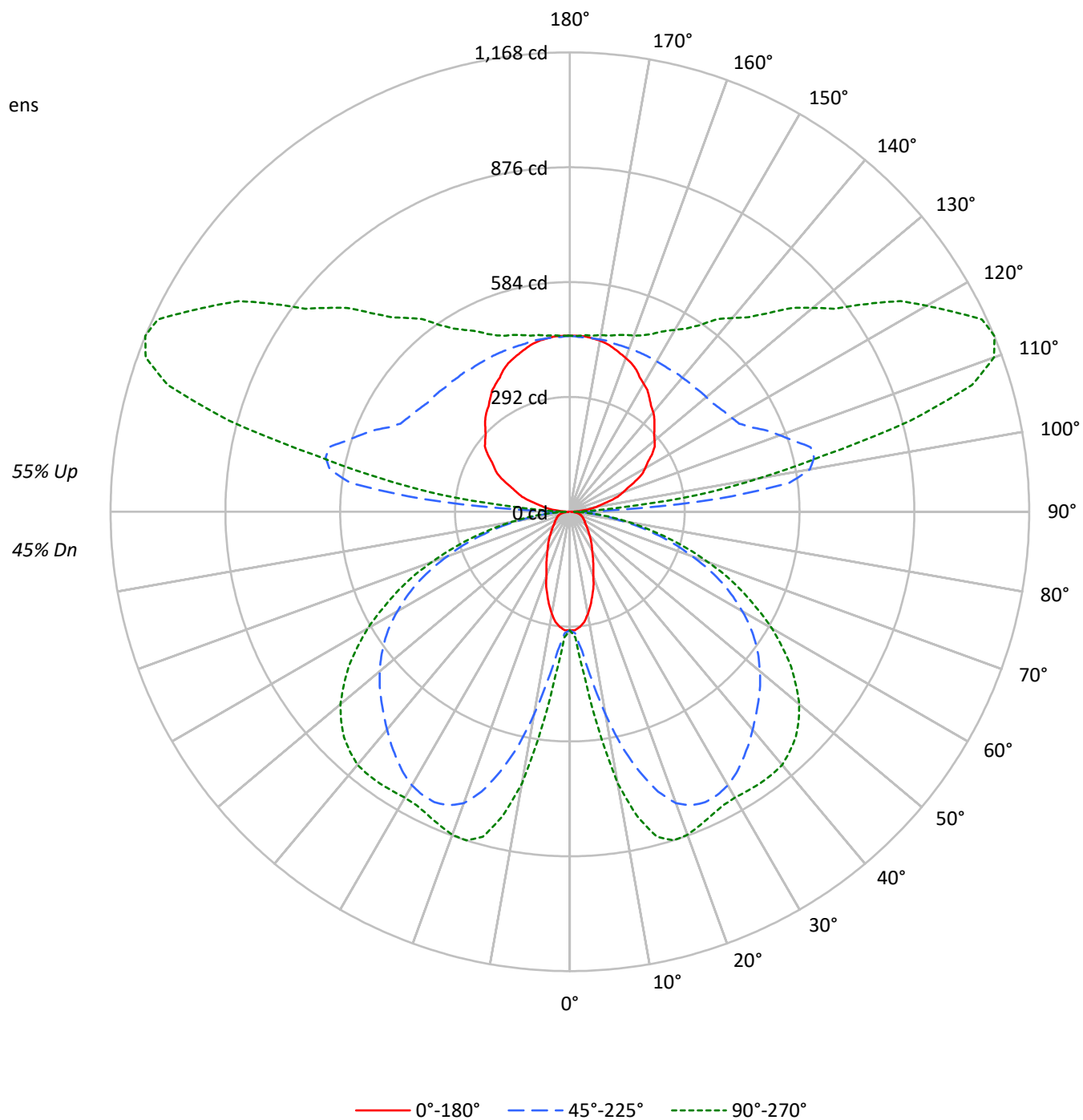
Lumens per Lamp: N/A
Luminaire Lumens: 5234.5 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 42.4
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



TEST NUMBER: P937198

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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	80	77	70	67	65	57	55	53	44	43	42
2	87	79	73	68	79	73	67	63	60	56	53	49	46	44	38	36	35
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29
4	72	61	53	47	65	56	49	43	46	41	37	38	34	31	30	27	24
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	24	21	25	20	17	20	16	14
9	48	35	28	23	44	33	26	21	27	22	18	22	18	15	18	15	12
10	44	32	25	20	41	30	23	19	25	20	16	21	17	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2797	2797	2797
5°	2729	3230	3759
10°	2473	4704	6232
15°	2099	6142	7524
20°	1707	7112	7668
25°	1422	7437	7513
30°	1198	7478	7499
35°	1058	7348	7692
40°	919	7181	7893
45°	831	7056	7923
50°	761	6943	7792
55°	726	6780	7447
60°	742	6473	6902
65°	767	6011	6152
70°	812	5232	5198
75°	889	4255	4056
80°	950	2940	2734
85°	803	1551	1398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7923 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	0.7
10°-20°	172.8	3.3
20°-30°	302.2	5.8
30°-40°	389.0	7.4
40°-50°	434.5	8.3
50°-60°	416.2	8.0
60°-70°	329.8	6.3
70°-80°	193.9	3.7
80°-90°	55.6	1.1
90°-100°	218.2	4.2
100°-110°	573.6	11.0
110°-120°	594.7	11.4
120°-130°	477.1	9.1
130°-140°	374.3	7.2
140°-150°	287.3	5.5
150°-160°	206.9	4.0
160°-170°	126.6	2.4
170°-180°	42.8	0.8
0°-30°	514.0	9.8
0°-40°	903.0	17.3
0°-60°	1753.7	33.5
0°-90°	2333.0	44.6
90°-120°	1386.5	26.5
90°-150°	2525.2	48.2
90°-180°	2901.0	55.4
0°-180°	5234.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	301	301	301	301	301	
5°	294	315	355	401	416	27
15°	220	406	684	830	856	61
25°	140	460	815	851	852	65
35°	95	440	767	811	843	59
45°	65	351	678	777	812	50
55°	46	223	576	669	687	42
65°	37	118	427	481	487	37
75°	27	73	234	258	259	28
85°	10	22	58	64	65	10
90°	3	8	23	11	11	3
95°	29	113	376	194	132	32
105°	103	156	634	963	898	110
115°	184	223	508	1013	1156	181
125°	255	286	462	781	921	227
135°	304	335	448	630	715	235
145°	353	376	442	538	580	221
155°	399	410	442	485	499	183
165°	430	436	442	459	465	121
175°	448	448	445	451	451	42
180°	448	448	448	448	448	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	301.4	301.4	301.4	301.4	301.4	301.4	301.4	301.4	301.4	301.4	301.4
2.5°	301.4	301.4	303.3	304.3	306.2	307.2	309.1	311.0	316.9	317.8	319.8
5°	293.6	297.5	310.1	314.9	328.5	346.9	354.7	367.3	393.4	401.2	406.0
7.5°	282.0	290.7	321.7	329.5	363.4	411.8	432.2	459.3	501.0	521.3	537.8
10°	263.6	282.0	337.2	355.6	410.9	484.5	522.3	560.1	623.1	651.2	661.8
12.5°	243.2	273.3	353.7	378.9	458.3	565.9	611.4	653.1	724.8	762.6	768.4
15°	220.0	260.7	369.2	406.0	508.7	633.7	684.1	735.5	802.3	829.5	836.2
17.5°	199.6	251.0	383.7	422.5	547.5	694.8	746.1	788.8	843.0	861.4	866.3
20°	174.4	235.5	393.4	443.8	588.2	739.3	788.8	821.7	858.5	870.2	872.1
22.5°	156.0	219.0	399.2	451.6	615.3	766.5	808.1	834.3	859.5	863.4	864.3
25°	140.5	200.6	398.3	460.3	638.6	783.0	814.9	834.3	848.8	850.8	850.8
27.5°	126.0	180.2	394.4	462.2	656.0	786.8	812.0	825.6	832.4	836.2	836.2
30°	113.4	160.9	384.7	458.3	663.8	783.0	803.3	810.1	816.9	822.7	825.6
32.5°	103.7	142.4	370.2	450.6	664.7	773.3	787.8	791.7	801.4	814.9	819.8
35°	95.0	124.0	353.7	439.9	658.9	757.8	767.4	771.3	790.7	811.1	817.8
37.5°	86.2	110.5	332.4	421.5	650.2	739.3	746.1	752.9	783.0	807.2	814.9
40°	77.5	98.8	307.2	401.2	636.6	717.1	722.9	733.5	773.3	801.4	809.1
42.5°	70.7	89.1	280.0	379.8	619.2	691.9	700.6	716.1	761.6	791.7	800.4
45°	64.9	79.5	251.0	350.8	596.9	665.7	678.3	699.6	748.1	777.1	784.9
47.5°	59.1	72.7	220.9	320.7	572.7	639.5	656.0	680.2	729.7	757.8	764.5
50°	54.3	65.9	190.9	288.8	546.5	611.4	630.8	656.0	706.4	732.6	741.3
52.5°	50.4	60.1	162.8	256.8	516.5	582.4	604.7	630.8	678.3	703.5	709.3
55°	46.5	55.2	138.6	222.9	485.5	551.4	575.6	600.8	647.3	668.6	672.5
57.5°	44.6	51.4	118.2	190.9	452.5	516.5	543.6	566.9	610.5	626.9	630.8
60°	41.7	48.4	102.7	163.8	416.7	483.5	506.8	530.0	566.9	580.4	583.3
62.5°	38.8	46.5	91.1	137.6	379.8	444.8	468.0	489.3	520.4	530.0	533.9
65°	36.8	44.6	82.4	118.2	342.1	404.1	427.3	445.7	470.9	480.6	482.6
67.5°	34.9	42.6	75.6	101.7	304.3	363.4	380.8	398.3	417.6	427.3	428.3
70°	32.0	40.7	69.8	90.1	265.5	316.9	331.4	349.8	365.3	370.2	373.1
72.5°	30.0	37.8	65.9	81.4	225.8	272.3	285.9	296.5	310.1	314.9	314.9
75°	27.1	33.9	62.0	72.7	185.1	222.9	234.5	245.2	255.8	257.8	254.8
77.5°	24.2	30.0	53.3	61.0	144.4	176.4	186.0	191.9	200.6	202.5	203.5
80°	20.3	26.2	41.7	47.5	104.7	129.8	136.6	141.5	149.2	149.2	151.2
82.5°	15.5	20.3	30.0	33.9	70.7	89.1	95.0	97.9	102.7	102.7	102.7
85°	9.7	12.6	19.4	22.3	42.6	54.3	58.1	59.1	63.0	64.0	64.0
87.5°	4.8	6.8	12.6	13.6	22.3	28.1	28.1	30.0	30.0	29.1	28.1
90°	3.0	5.4	7.8	8.4	13.3	19.7	22.9	20.3	15.2	11.4	11.4
92.5°	12.0	32.5	52.8	57.9	81.5	112.9	128.6	112.7	80.9	57.1	54.8
95°	28.9	66.3	103.7	113.0	200.6	317.3	375.8	335.3	254.4	193.7	186.8
97.5°	49.9	82.8	115.8	124.0	270.2	464.9	562.3	536.7	485.7	447.3	434.2
100°	66.1	95.9	125.9	133.3	295.4	511.6	619.7	621.5	625.3	628.1	612.5
102.5°	79.9	107.8	135.7	142.6	307.1	526.4	636.0	668.5	733.6	782.5	769.1
105°	103.3	126.9	150.6	156.5	315.7	528.0	634.1	707.2	853.2	962.7	955.5
107.5°	127.3	149.4	171.4	176.9	317.3	504.5	598.1	699.9	903.6	1056.4	1058.1
110°	143.6	163.5	183.4	188.4	314.9	483.6	568.0	681.9	909.6	1080.4	1087.9

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	159.5	178.5	197.4	202.1	315.0	465.5	540.7	657.3	890.3	1065.1	1076.7
115°	183.5	201.0	218.5	222.9	317.9	444.6	507.9	620.3	844.8	1013.2	1029.1
117.5°	207.3	223.2	239.1	243.0	323.8	431.5	485.4	586.7	789.3	941.4	959.0
120°	221.1	236.0	251.0	254.8	328.6	427.1	476.4	569.0	754.2	893.0	910.2
122.5°	234.6	249.7	264.7	268.5	335.5	424.8	469.5	552.8	719.6	844.7	861.6
125°	255.3	269.1	282.9	286.2	344.9	423.0	462.0	532.9	674.5	780.7	796.3
127.5°	272.2	286.0	299.9	303.4	354.2	421.9	455.7	516.6	638.2	729.4	742.5
130°	281.2	296.1	311.0	314.8	361.0	422.5	453.3	507.5	615.7	696.9	709.0
132.5°	290.5	305.4	320.4	324.1	366.5	423.0	451.2	499.6	596.6	669.3	680.1
135°	304.3	317.8	331.5	334.9	372.5	422.6	447.6	488.2	569.4	630.2	639.6
137.5°	318.4	331.9	345.4	348.7	381.5	425.2	447.0	481.3	549.9	601.4	609.0
140°	330.1	342.5	354.9	358.0	387.0	425.6	444.9	474.5	533.7	578.2	585.4
142.5°	339.2	350.6	362.0	364.9	391.6	427.1	444.9	470.9	523.0	562.0	568.2
145°	352.9	363.0	373.0	375.5	397.6	427.1	441.9	463.2	505.7	537.7	542.3
147.5°	366.8	376.5	386.2	388.7	406.4	430.0	441.9	458.6	492.2	517.3	521.1
150°	375.8	384.6	393.4	395.6	411.0	431.6	441.9	456.0	484.3	505.5	508.6
152.5°	385.1	391.8	398.5	400.1	414.1	432.6	441.9	454.0	478.1	496.2	498.6
155°	398.9	403.9	408.7	410.0	420.6	434.8	441.9	451.5	470.6	485.1	486.6
157.5°	409.1	414.0	418.8	420.0	427.2	437.0	441.9	449.3	464.2	475.5	476.6
160°	416.0	419.8	423.5	424.4	430.2	438.0	441.9	448.3	461.1	470.7	471.3
162.5°	423.0	425.8	428.6	429.3	433.4	439.1	441.9	447.3	458.0	466.2	466.8
165°	430.4	432.9	435.5	436.1	438.1	440.6	441.9	445.7	453.5	459.3	460.0
167.5°	437.3	438.5	439.7	440.0	441.7	443.8	444.9	447.4	452.5	456.3	456.6
170°	441.9	443.0	444.3	444.6	444.7	444.8	444.9	447.4	452.5	456.3	456.3
172.5°	444.3	444.6	444.8	444.9	444.9	444.9	444.9	446.9	450.9	453.9	453.7
175°	447.6	447.6	447.6	447.6	446.7	445.4	444.9	446.1	448.6	450.6	450.6
177.5°	447.6	447.6	447.6	447.6	446.9	445.9	445.4	446.4	448.5	450.0	449.7
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	301.4	301.4
2.5°	321.7	319.8
5°	413.8	415.7
7.5°	557.2	556.2
10°	692.8	701.6
12.5°	791.7	793.6
15°	851.8	855.6
17.5°	875.0	876.0
20°	876.0	874.0
22.5°	865.3	863.4
25°	852.7	851.8
27.5°	841.1	842.1
30°	836.2	839.2
32.5°	836.2	841.1
35°	838.2	843.0
37.5°	837.2	843.0
40°	833.3	840.1
42.5°	822.7	827.5
45°	806.2	812.0
47.5°	784.9	788.8
50°	757.8	761.6
52.5°	723.8	724.8
55°	683.1	687.0
57.5°	639.5	640.5
60°	591.1	594.0
62.5°	539.7	539.7
65°	485.5	487.4
67.5°	429.3	434.1
70°	372.1	373.1
72.5°	315.9	315.9
75°	257.8	258.7
77.5°	202.5	202.5
80°	150.2	151.2
82.5°	103.7	105.6
85°	64.9	64.9
87.5°	30.0	27.1
90°	11.4	11.4
92.5°	45.7	36.6
95°	159.4	131.9
97.5°	381.9	329.6
100°	550.2	487.8
102.5°	715.7	662.3
105°	926.8	898.2
107.5°	1065.1	1072.1
110°	1117.8	1147.8

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1122.6	1168.5
115°	1092.8	1156.5
117.5°	1029.7	1100.3
120°	978.8	1047.4
122.5°	929.3	997.0
125°	858.6	920.9
127.5°	795.1	847.7
130°	757.7	806.2
132.5°	723.6	767.2
135°	677.1	714.6
137.5°	639.7	670.5
140°	614.2	642.8
142.5°	592.8	617.5
145°	561.1	579.8
147.5°	536.6	552.1
150°	521.2	533.8
152.5°	508.0	517.5
155°	492.9	499.2
157.5°	481.0	485.4
160°	473.8	476.4
162.5°	469.2	471.6
165°	462.5	465.0
167.5°	457.7	458.7
170°	456.3	456.3
172.5°	452.7	451.7
175°	450.6	450.6
177.5°	448.6	447.6
180°	447.6	447.6

(END OF REPORT)