

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P844799

Luminaire Tested: **SQ4P-100U-0D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-034-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-100U-0D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT
UPLIGHT, INDIRECT ONLY

Light Source: -
Ballast/Driver: -

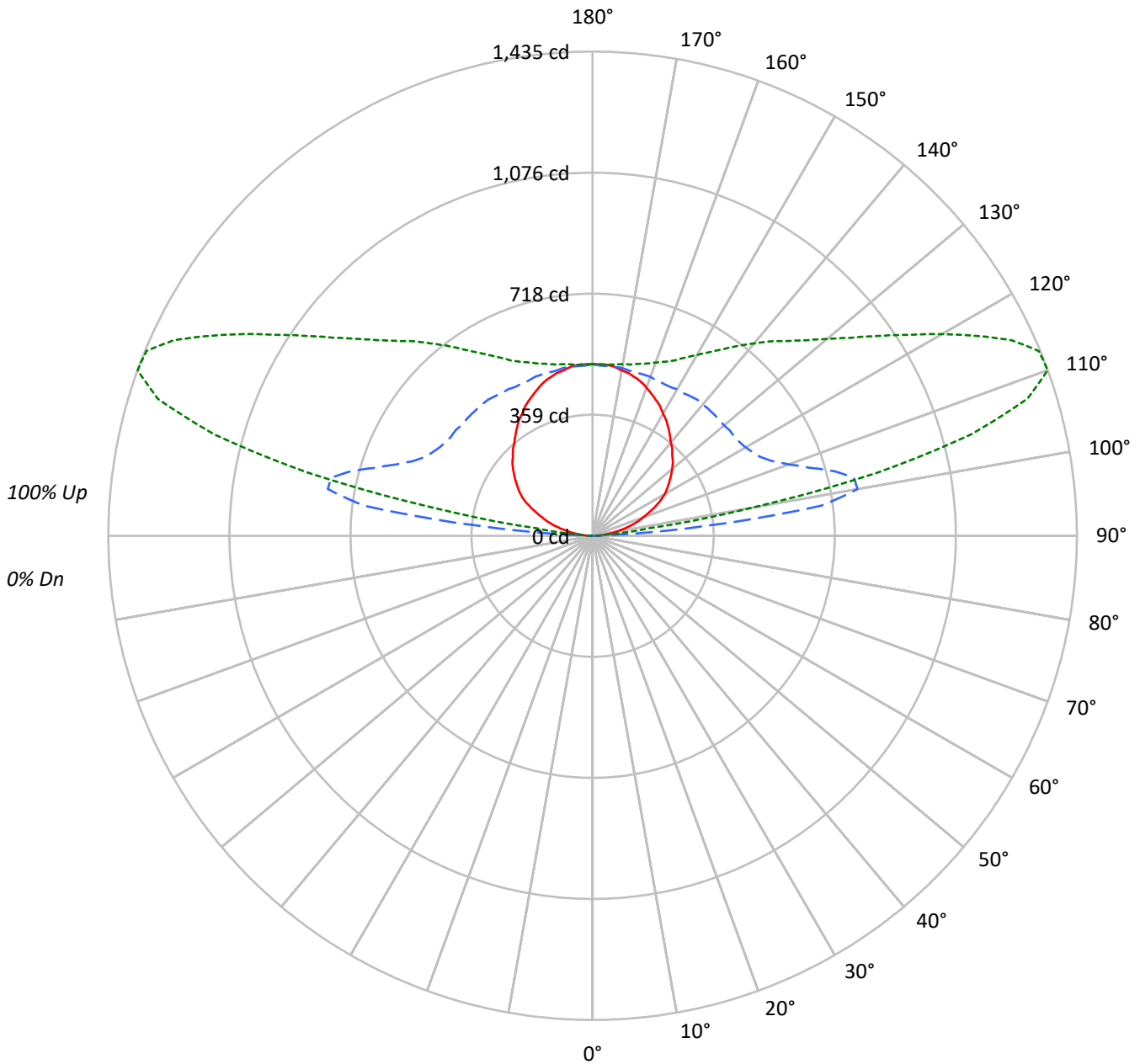
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3297.8 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 26
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: 25 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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	1.3	0.0
90°-100°	200.5	6.1
100°-110°	704.2	21.4
110°-120°	681.6	20.7
120°-130°	532.8	16.2
130°-140°	423.5	12.8
140°-150°	327.1	9.9
150°-160°	234.8	7.1
160°-170°	143.4	4.3
170°-180°	48.6	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.3	0.0
90°-120°	1586.4	48.1
90°-150°	2869.7	87.0
90°-180°	3296.0	99.9
0°-180°	3297.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	8	11	11	8	4	5
95°	34	118	342	87	53	36
105°	118	167	740	1249	1162	124
115°	205	247	550	1162	1370	202
125°	277	342	512	865	1032	248
135°	334	376	509	721	816	259
145°	391	418	505	622	676	245
155°	444	459	497	554	573	205
165°	486	490	501	524	528	137
175°	509	509	505	512	509	48
180°	509	509	509	509	509	



TEST NUMBER: P844799

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	7.6	7.6	11.4	11.4	15.2	15.2	11.4	11.4	7.6	7.6	7.6
92.5°	19.0	30.3	49.3	57.0	79.8	68.3	53.1	34.2	26.6	22.8	22.8
95°	34.2	45.5	94.9	117.6	223.9	353.0	341.6	284.7	125.3	87.3	79.8
97.5°	53.1	60.8	106.3	132.9	265.7	580.7	683.2	683.2	470.7	311.3	261.9
100°	72.1	79.8	117.6	140.4	258.1	607.3	797.0	922.3	888.1	747.7	679.4
102.5°	94.9	106.3	132.9	151.8	250.5	577.0	793.2	983.1	1108.3	1051.4	1021.0
105°	117.6	132.9	151.8	167.0	250.5	527.5	740.1	956.5	1222.1	1248.7	1244.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	182.2	197.4	216.4	223.9	280.8	444.1	577.0	740.1	1070.4	1256.3	1294.3
115°	204.9	216.4	242.9	246.7	292.3	436.4	550.3	683.2	979.3	1161.5	1210.8
117.5°	227.7	231.5	269.5	273.3	307.5	436.4	535.2	649.1	903.3	1074.2	1119.7
120°	246.7	250.5	296.0	296.0	322.6	440.3	523.8	622.5	838.8	990.6	1036.2
122.5°	261.9	265.7	318.8	318.8	341.6	440.3	516.2	607.3	793.2	922.3	960.3
125°	277.0	280.8	334.0	341.6	356.8	447.9	512.4	592.1	755.4	865.3	895.8
127.5°	292.3	296.0	337.8	356.8	375.8	451.7	512.4	580.7	721.2	823.7	850.2
130°	307.5	311.3	345.4	364.4	394.8	455.4	508.6	569.3	698.4	781.9	808.5
132.5°	322.6	326.4	353.0	368.1	406.1	463.1	508.6	561.7	675.6	751.5	774.3
135°	334.0	341.6	364.4	375.8	417.6	466.9	508.6	550.3	652.8	721.2	740.1
137.5°	349.2	356.8	375.8	383.3	421.3	474.4	508.6	546.5	633.8	694.6	713.6
140°	360.6	368.1	387.1	394.8	428.9	478.2	508.6	542.8	614.8	668.0	683.2
142.5°	375.8	383.3	398.6	406.1	432.7	482.0	508.6	539.0	599.7	641.5	656.6
145°	390.9	394.8	409.9	417.6	440.3	482.0	504.8	531.4	584.5	622.5	630.1
147.5°	406.1	409.9	425.1	428.9	451.7	482.0	501.0	527.5	569.3	603.5	611.1
150°	417.6	425.1	436.4	440.3	459.2	485.9	501.0	520.0	558.0	584.5	592.1
152.5°	432.7	436.4	444.1	451.7	466.9	485.9	497.2	516.2	546.5	565.5	573.1
155°	444.1	447.9	455.4	459.2	474.4	489.7	497.2	512.4	535.2	554.2	558.0
157.5°	455.4	459.2	466.9	470.7	478.2	493.4	497.2	512.4	531.4	542.8	546.5
160°	466.9	470.7	474.4	478.2	485.9	493.4	501.0	508.6	523.8	535.2	539.0
162.5°	478.2	478.2	482.0	485.9	493.4	497.2	501.0	508.6	520.0	527.5	531.4
165°	485.9	485.9	489.7	489.7	497.2	497.2	501.0	508.6	516.2	523.8	523.8
167.5°	493.4	493.4	497.2	497.2	501.0	501.0	501.0	508.6	512.4	520.0	520.0
170°	497.2	501.0	501.0	501.0	504.8	504.8	504.8	508.6	512.4	516.2	516.2
172.5°	504.8	504.8	504.8	504.8	508.6	504.8	504.8	508.6	512.4	512.4	512.4
175°	508.6	508.6	508.6	508.6	508.6	504.8	504.8	508.6	508.6	512.4	512.4
177.5°	508.6	508.6	508.6	508.6	512.4	504.8	504.8	508.6	508.6	512.4	512.4
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



TEST NUMBER: P844799

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	0.0	0.0
2.5°	0.0	0.0
5°	0.0	0.0
7.5°	0.0	0.0
10°	0.0	0.0
12.5°	0.0	0.0
15°	0.0	0.0
17.5°	0.0	0.0
20°	0.0	0.0
22.5°	0.0	0.0
25°	0.0	0.0
27.5°	0.0	0.0
30°	0.0	0.0
32.5°	0.0	0.0
35°	0.0	0.0
37.5°	0.0	0.0
40°	0.0	0.0
42.5°	0.0	0.0
45°	0.0	0.0
47.5°	0.0	0.0
50°	0.0	0.0
52.5°	0.0	0.0
55°	0.0	0.0
57.5°	0.0	0.0
60°	0.0	0.0
62.5°	0.0	0.0
65°	0.0	0.0
67.5°	0.0	0.0
70°	0.0	0.0
72.5°	0.0	0.0
75°	0.0	0.0
77.5°	0.0	0.0
80°	0.0	0.0
82.5°	0.0	0.0
85°	0.0	0.0
87.5°	0.0	0.0
90°	3.8	3.8
92.5°	19.0	19.0
95°	57.0	53.1
97.5°	189.7	167.0
100°	527.5	482.0
102.5°	899.5	865.3
105°	1176.6	1161.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1400.5	1431.0
115°	1336.0	1370.2
117.5°	1241.1	1282.9
120°	1157.6	1195.6
122.5°	1074.2	1108.3
125°	998.2	1032.4
127.5°	933.7	964.1
130°	880.6	907.1
132.5°	838.8	857.8
135°	797.0	816.0
137.5°	762.9	781.9
140°	728.7	743.9
142.5°	694.6	709.8
145°	664.3	675.6
147.5°	637.6	645.3
150°	611.1	618.6
152.5°	592.1	595.9
155°	573.1	573.1
157.5°	558.0	558.0
160°	542.8	546.5
162.5°	535.2	535.2
165°	527.5	527.5
167.5°	520.0	520.0
170°	516.2	516.2
172.5°	516.2	512.4
175°	512.4	508.6
177.5°	512.4	508.6
180°	508.6	508.6



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	140.4	155.6	170.8	186.0	254.3	485.9	671.8	884.3	1222.1	1336.0	1347.4
110°	159.4	178.4	193.6	204.9	265.7	459.2	618.6	808.5	1157.6	1324.7	1355.0





107.5°	1358.8	<i>1351.2</i>
110°	<i>1419.5</i>	<i>1434.7</i>



(END OF REPORT)