

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: P844797

Luminaire Tested: **SQ4P-075U-0D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844797
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-075U-0D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT
UPLIGHT, INDIRECT ONLY

Light Source: -
Ballast/Driver: -

Summary

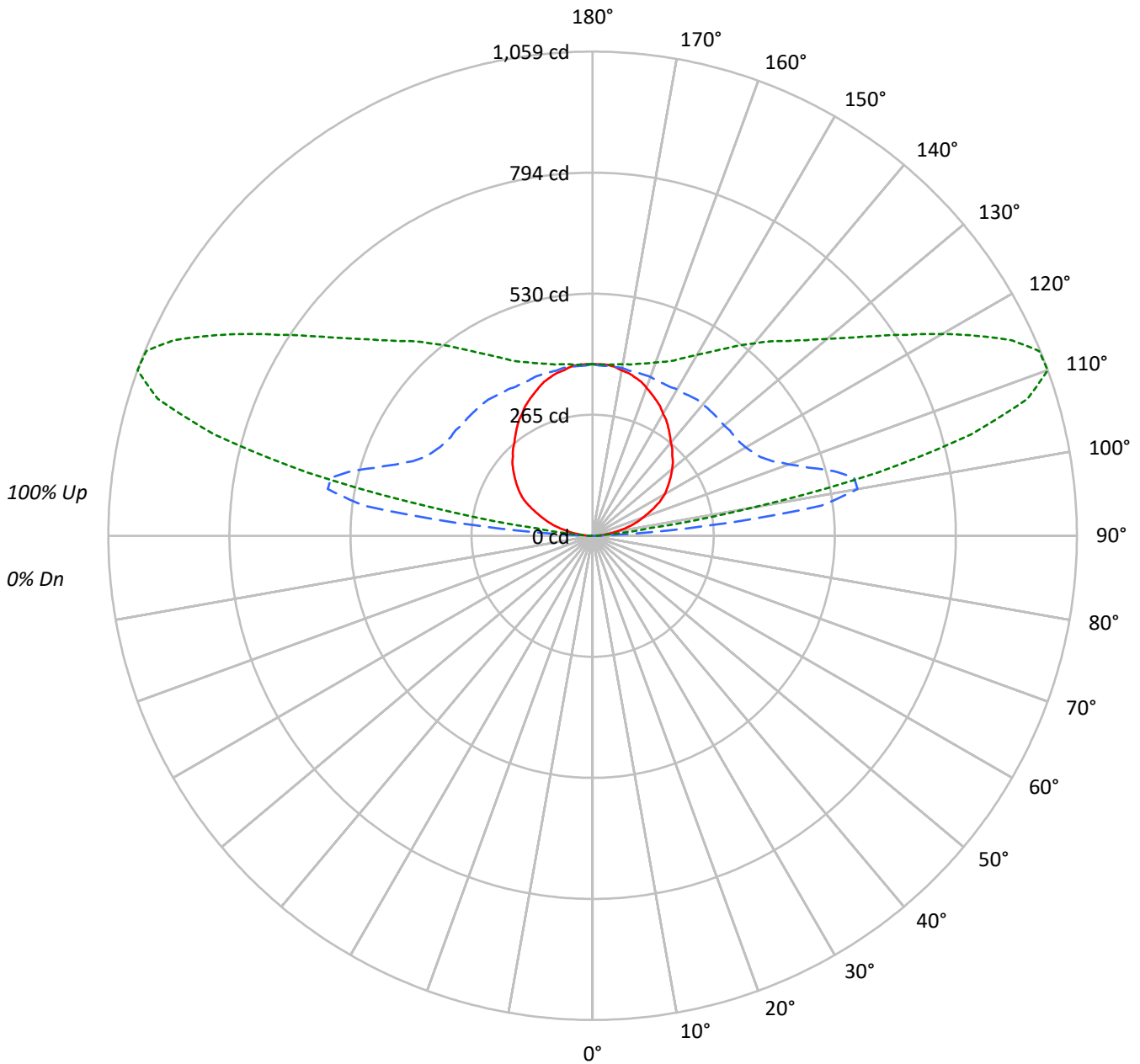
Lumens per Lamp: N/A
Luminaire Lumens: 2434.3 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 19
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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	8	8	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	7	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	6	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	5	5	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	4	4	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	4	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	3	3	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	3	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	3	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	2	2	2	0

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°	0.9	0.0
90°-100°	148.0	6.1
100°-110°	519.8	21.4
110°-120°	503.2	20.7
120°-130°	393.3	16.2
130°-140°	312.6	12.8
140°-150°	241.4	9.9
150°-160°	173.3	7.1
160°-170°	105.9	4.3
170°-180°	35.8	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.9	0.0
90°-120°	1171.0	48.1
90°-150°	2118.3	87.0
90°-180°	2433.0	99.9
0°-180°	2434.3	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°	6	8	8	6	3	3
95°	25	87	252	64	39	27
105°	87	123	546	922	857	91
115°	151	182	406	857	1011	149
125°	205	252	378	639	762	183
135°	246	277	375	532	602	191
145°	289	308	373	460	499	181
155°	328	339	367	409	423	151
165°	359	362	370	387	390	101
175°	375	375	373	378	375	36
180°	375	375	375	375	375	



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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°	5.6	5.6	8.4	8.4	11.2	11.2	8.4	8.4	5.6	5.6	5.6
92.5°	14.1	22.4	36.4	42.1	58.8	50.4	39.2	25.2	19.6	16.8	16.8
95°	25.2	33.6	70.1	86.8	165.3	260.6	252.2	210.1	92.4	64.4	58.8
97.5°	39.2	44.9	78.5	98.1	196.1	428.6	504.3	504.3	347.4	229.8	193.3
100°	53.2	58.8	86.8	103.7	190.5	448.3	588.3	680.9	655.6	552.0	501.5
102.5°	70.1	78.5	98.1	112.0	184.9	425.9	585.6	725.6	818.1	776.1	753.6
105°	86.8	98.1	112.0	123.3	184.9	389.5	546.4	706.1	902.2	921.8	919.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	134.5	145.7	159.7	165.3	207.3	327.8	425.9	546.4	790.1	927.4	955.4
115°	151.3	159.7	179.3	182.1	215.7	322.2	406.2	504.3	722.8	857.3	893.8
117.5°	168.1	170.9	198.9	201.8	227.0	322.2	395.1	479.1	666.8	792.9	826.5
120°	182.1	184.9	218.5	218.5	238.1	325.0	386.7	459.5	619.1	731.3	764.9
122.5°	193.3	196.1	235.4	235.4	252.2	325.0	381.0	448.3	585.6	680.9	708.9
125°	204.6	207.3	246.5	252.2	263.4	330.6	378.2	437.0	557.5	638.8	661.2
127.5°	215.7	218.5	249.3	263.4	277.3	333.4	378.2	428.6	532.3	608.0	627.6
130°	227.0	229.8	255.0	269.0	291.4	336.2	375.4	420.3	515.5	577.2	596.7
132.5°	238.1	240.9	260.6	271.7	299.8	341.8	375.4	414.7	498.7	554.8	571.6
135°	246.5	252.2	269.0	277.3	308.2	344.6	375.4	406.2	481.9	532.3	546.4
137.5°	257.8	263.4	277.3	283.0	311.0	350.2	375.4	403.4	467.9	512.7	526.7
140°	266.2	271.7	285.8	291.4	316.6	353.0	375.4	400.6	453.9	493.1	504.3
142.5°	277.3	283.0	294.2	299.8	319.4	355.8	375.4	397.8	442.7	473.5	484.7
145°	288.6	291.4	302.5	308.2	325.0	355.8	372.6	392.3	431.4	459.5	465.1
147.5°	299.8	302.5	313.8	316.6	333.4	355.8	369.8	389.5	420.3	445.5	451.1
150°	308.2	313.8	322.2	325.0	339.0	358.7	369.8	383.8	411.9	431.4	437.0
152.5°	319.4	322.2	327.8	333.4	344.6	358.7	367.0	381.0	403.4	417.5	423.1
155°	327.8	330.6	336.2	339.0	350.2	361.5	367.0	378.2	395.1	409.0	411.9
157.5°	336.2	339.0	344.6	347.4	353.0	364.3	367.0	378.2	392.3	400.6	403.4
160°	344.6	347.4	350.2	353.0	358.7	364.3	369.8	375.4	386.7	395.1	397.8
162.5°	353.0	353.0	355.8	358.7	364.3	367.0	369.8	375.4	383.8	389.5	392.3
165°	358.7	358.7	361.5	361.5	367.0	367.0	369.8	375.4	381.0	386.7	386.7
167.5°	364.3	364.3	367.0	367.0	369.8	369.8	369.8	375.4	378.2	383.8	383.8
170°	367.0	369.8	369.8	369.8	372.6	372.6	372.6	375.4	378.2	381.0	381.0
172.5°	372.6	372.6	372.6	372.6	375.4	372.6	372.6	375.4	378.2	378.2	378.2
175°	375.4	375.4	375.4	375.4	375.4	372.6	372.6	375.4	375.4	378.2	378.2
177.5°	375.4	375.4	375.4	375.4	378.2	372.6	372.6	375.4	375.4	378.2	378.2
180°	375.4	375.4	375.4	375.4	375.4	375.4	375.4	375.4	375.4	375.4	375.4



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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°	2.8	2.8
92.5°	14.1	14.1
95°	42.1	39.2
97.5°	140.1	123.3
100°	389.5	355.8
102.5°	664.0	638.8
105°	868.6	857.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1033.8	1056.3
115°	986.2	1011.4
117.5°	916.2	947.0
120°	854.5	882.5
122.5°	792.9	818.1
125°	736.9	762.1
127.5°	689.2	711.7
130°	650.0	669.6
132.5°	619.1	633.2
135°	588.3	602.4
137.5°	563.1	577.2
140°	537.9	549.2
142.5°	512.7	523.9
145°	490.3	498.7
147.5°	470.7	476.3
150°	451.1	456.7
152.5°	437.0	439.9
155°	423.1	423.1
157.5°	411.9	411.9
160°	400.6	403.4
162.5°	395.1	395.1
165°	389.5	389.5
167.5°	383.8	383.8
170°	381.0	381.0
172.5°	381.0	378.2
175°	378.2	375.4
177.5°	378.2	375.4
180°	375.4	375.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	103.7	114.8	126.1	137.3	187.7	358.7	495.9	652.8	902.2	986.2	994.6
110°	117.6	131.7	142.8	151.3	196.1	339.0	456.7	596.7	854.5	977.8	1000.2





107.5°	1003.0	997.5
110°	1047.8	1059.1



(END OF REPORT)