

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: P844800

Luminaire Tested: **SQ4P-100U-0D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844800
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-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT
UPLIGHT, INDIRECT ONLY

Light Source: -
Ballast/Driver: -

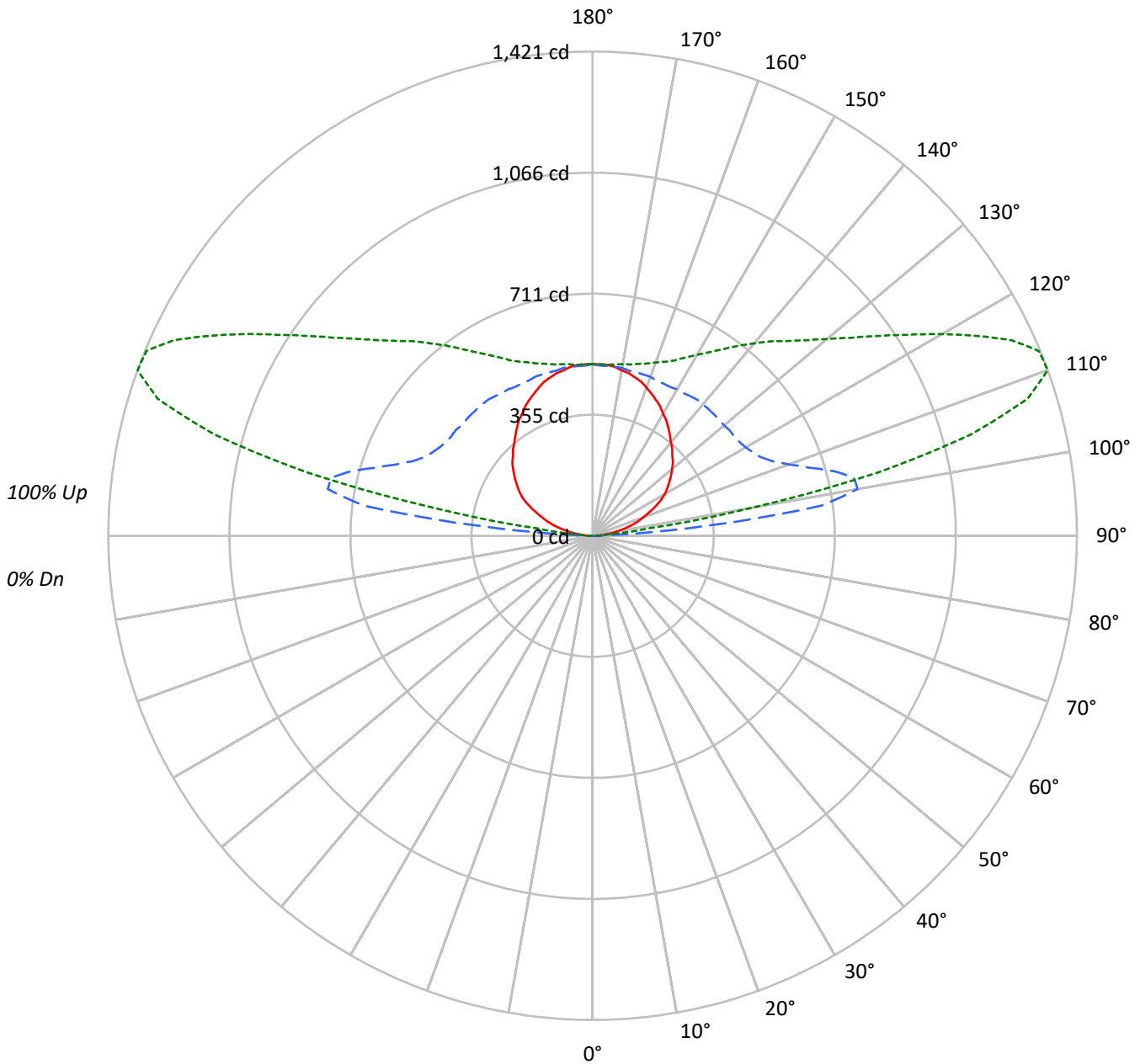
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3265.7 lumens
Efficiency: N/A
Efficacy: 125.6 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			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°	1.3	0.0
90°-100°	198.6	6.1
100°-110°	697.4	21.4
110°-120°	675.0	20.7
120°-130°	527.6	16.2
130°-140°	419.4	12.8
140°-150°	323.9	9.9
150°-160°	232.5	7.1
160°-170°	142.0	4.3
170°-180°	48.1	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°	1571.0	48.1
90°-150°	2841.8	87.0
90°-180°	3264.0	99.9
0°-180°	3265.7	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	116	338	86	53	36
105°	116	165	733	1237	1150	122
115°	203	244	545	1150	1357	200
125°	274	338	507	857	1022	246
135°	331	372	504	714	808	256
145°	387	414	500	616	669	242
155°	440	455	492	549	568	203
165°	481	485	496	519	522	136
175°	504	504	500	507	504	48
180°	504	504	504	504	504	



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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	11.2	11.2	15.0	15.0	11.2	11.2	7.6	7.6	7.6
92.5°	18.8	30.0	48.8	56.4	79.0	67.6	52.6	33.8	26.4	22.6	22.6
95°	33.8	45.1	94.0	116.5	221.7	349.5	338.3	281.9	124.0	86.4	79.0
97.5°	52.6	60.2	105.2	131.6	263.1	575.0	676.6	676.6	466.1	308.3	259.3
100°	71.4	79.0	116.5	139.1	255.6	601.4	789.3	913.3	879.5	740.5	672.8
102.5°	94.0	105.2	131.6	150.3	248.1	571.4	785.5	973.5	1097.6	1041.2	1011.1
105°	116.5	131.6	150.3	165.4	248.1	522.4	732.9	947.2	1210.3	1236.6	1232.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	180.4	195.5	214.3	221.7	278.1	439.8	571.4	732.9	1060.0	1244.1	1281.7
115°	202.9	214.3	240.5	244.3	289.5	432.2	545.0	676.6	969.7	1150.2	1199.0
117.5°	225.5	229.3	266.9	270.7	304.5	432.2	530.0	642.8	894.5	1063.7	1108.8
120°	244.3	248.1	293.1	293.1	319.5	436.0	518.7	616.4	830.7	981.0	1026.1
122.5°	259.3	263.1	315.7	315.7	338.3	436.0	511.2	601.4	785.5	913.3	950.9
125°	274.3	278.1	330.7	338.3	353.3	443.5	507.4	586.4	748.0	856.9	887.1
127.5°	289.5	293.1	334.5	353.3	372.1	447.3	507.4	575.0	714.2	815.7	841.9
130°	304.5	308.3	342.1	360.9	390.9	451.0	503.6	563.8	691.6	774.3	800.6
132.5°	319.5	323.3	349.5	364.6	402.2	458.6	503.6	556.2	669.0	744.2	766.8
135°	330.7	338.3	360.9	372.1	413.5	462.3	503.6	545.0	646.5	714.2	732.9
137.5°	345.8	353.3	372.1	379.6	417.2	469.8	503.6	541.2	627.7	687.8	706.6
140°	357.1	364.6	383.4	390.9	424.7	473.6	503.6	537.5	608.9	661.5	676.6
142.5°	372.1	379.6	394.7	402.2	428.5	477.4	503.6	533.8	593.8	635.2	650.2
145°	387.1	390.9	405.9	413.5	436.0	477.4	499.9	526.2	578.8	616.4	624.0
147.5°	402.2	405.9	421.0	424.7	447.3	477.4	496.2	522.4	563.8	597.6	605.2
150°	413.5	421.0	432.2	436.0	454.8	481.1	496.2	515.0	552.6	578.8	586.4
152.5°	428.5	432.2	439.8	447.3	462.3	481.1	492.4	511.2	541.2	560.0	567.6
155°	439.8	443.5	451.0	454.8	469.8	484.9	492.4	507.4	530.0	548.8	552.6
157.5°	451.0	454.8	462.3	466.1	473.6	488.6	492.4	507.4	526.2	537.5	541.2
160°	462.3	466.1	469.8	473.6	481.1	488.6	496.2	503.6	518.7	530.0	533.8
162.5°	473.6	473.6	477.4	481.1	488.6	492.4	496.2	503.6	515.0	522.4	526.2
165°	481.1	481.1	484.9	484.9	492.4	492.4	496.2	503.6	511.2	518.7	518.7
167.5°	488.6	488.6	492.4	492.4	496.2	496.2	496.2	503.6	507.4	515.0	515.0
170°	492.4	496.2	496.2	496.2	499.9	499.9	499.9	503.6	507.4	511.2	511.2
172.5°	499.9	499.9	499.9	499.9	503.6	499.9	499.9	503.6	507.4	507.4	507.4
175°	503.6	503.6	503.6	503.6	503.6	499.9	499.9	503.6	503.6	507.4	507.4
177.5°	503.6	503.6	503.6	503.6	507.4	499.9	499.9	503.6	503.6	507.4	507.4
180°	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6



TEST NUMBER: P844800

CATALOG NUMBER: SQ4P-100U-0D-B40-1D-UNV

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°	18.8	18.8
95°	56.4	52.6
97.5°	187.9	165.4
100°	522.4	477.4
102.5°	890.8	856.9
105°	1165.2	1150.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1386.9	1417.1
115°	1323.1	1356.9
117.5°	1229.1	1270.4
120°	1146.4	1184.0
122.5°	1063.7	1097.6
125°	988.5	1022.4
127.5°	924.7	954.7
130°	872.1	898.3
132.5°	830.7	849.5
135°	789.3	808.1
137.5°	755.5	774.3
140°	721.7	736.7
142.5°	687.8	702.9
145°	657.8	669.0
147.5°	631.4	639.0
150°	605.2	612.6
152.5°	586.4	590.2
155°	567.6	567.6
157.5°	552.6	552.6
160°	537.5	541.2
162.5°	530.0	530.0
165°	522.4	522.4
167.5°	515.0	515.0
170°	511.2	511.2
172.5°	511.2	507.4
175°	507.4	503.6
177.5°	507.4	503.6
180°	503.6	503.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	139.1	154.1	169.1	184.2	251.9	481.1	665.3	875.7	1210.3	1323.1	1334.3
110°	157.9	176.7	191.7	202.9	263.1	454.8	612.6	800.6	1146.4	1311.8	1341.9





107.5°	1345.6	<i>1338.1</i>
110°	<i>1405.7</i>	<i>1420.7</i>



(END OF REPORT)