

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: P845109

Luminaire Tested: **SQ4P-PP3-100U-050D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845109
REPORT IS A COMBINATION OF REPORTS P700087 AND P700246
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-100U-050D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

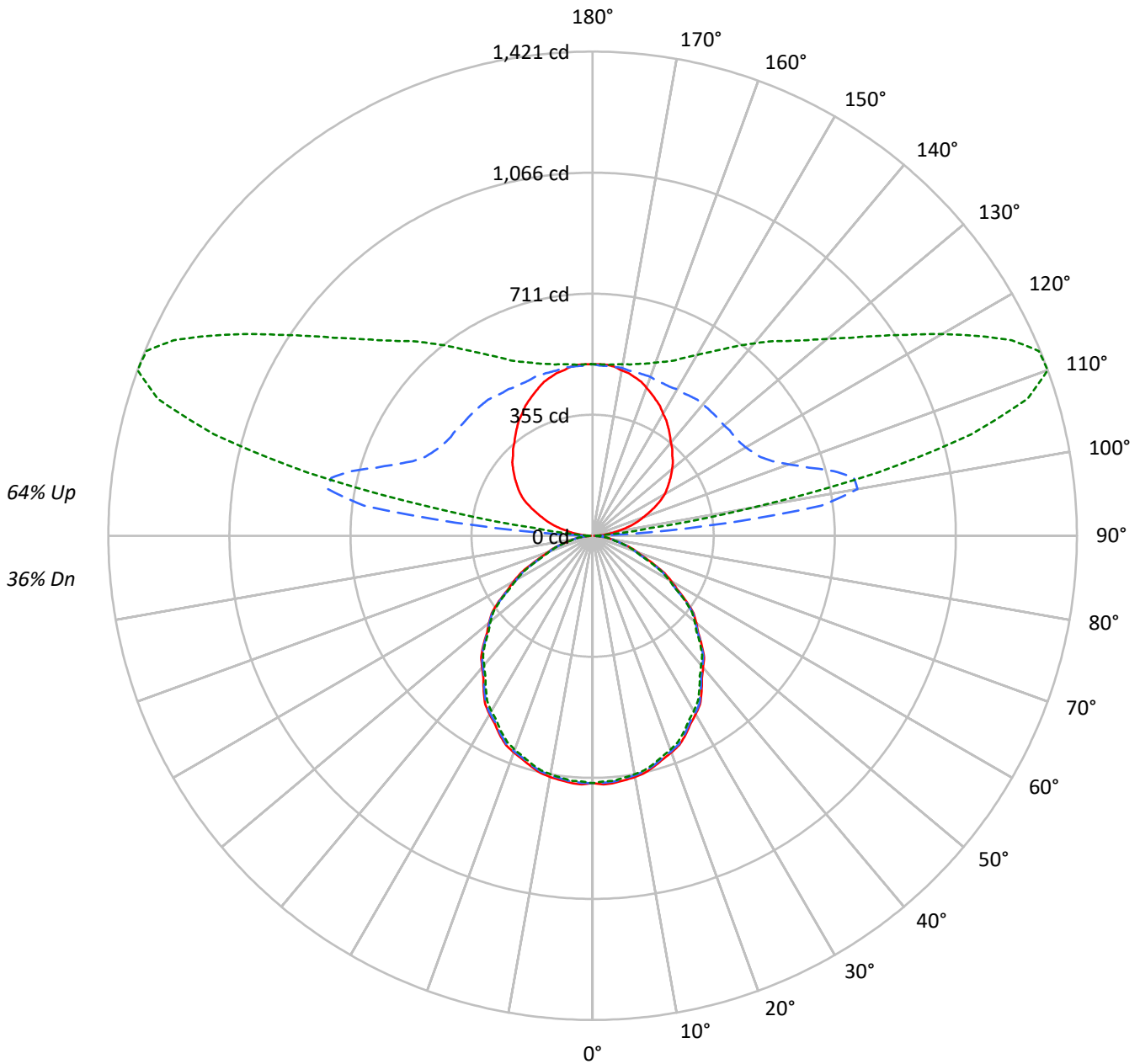
Lumens per Lamp: N/A
Luminaire Lumens: 5127.7 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 42.8
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									
RC	80									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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36																			
1	95	91	87	84	86	82	79	76	66	64	62	52	51	49	39	38	37	31																			
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	33	31	26																			
3	79	70	63	57	71	63	57	52	52	47	44	41	38	35	30	28	27	22																			
4	72	62	54	48	65	56	50	44	46	41	37	36	33	30	27	25	23	19																			
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	17																			
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15																			
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13																			
8	52	40	33	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12																			
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	10																			
10	45	33	26	22	41	31	24	20	25	21	17	21	17	14	16	13	12	9																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6696	6696	6696
5°	6745	6704	6681
10°	6735	6687	6657
15°	6690	6654	6616
20°	6645	6608	6559
25°	6566	6521	6457
30°	6445	6411	6329
35°	6277	6233	6155
40°	6075	6036	5968
45°	5909	5868	5810
50°	5697	5661	5605
55°	5403	5331	5290
60°	4918	4777	4755
65°	4336	4152	4137
70°	3742	3588	3588
75°	3223	3176	3126
80°	2837	2874	2800
85°	2212	2435	2435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	1.3
10°-20°	196.0	3.8
20°-30°	293.5	5.7
30°-40°	344.3	6.7
40°-50°	345.4	6.7
50°-60°	294.6	5.7
60°-70°	192.2	3.7
70°-80°	96.4	1.9
80°-90°	27.9	0.5
90°-100°	200.5	3.9
100°-110°	697.4	13.6
110°-120°	675.6	13.2
120°-130°	530.0	10.3
130°-140°	419.5	8.2
140°-150°	323.7	6.3
150°-160°	232.1	4.5
160°-170°	141.9	2.8
170°-180°	48.0	0.9
0°-30°	558.1	10.9
0°-40°	902.4	17.6
0°-60°	1542.4	30.1
0°-90°	1858.9	36.3
90°-120°	1573.5	30.7
90°-150°	2846.7	55.5
90°-180°	3269.0	63.8
0°-180°	5127.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	728	722	724	721	721	69
15°	700	694	697	694	693	198
25°	645	638	641	635	634	297
35°	557	552	553	547	546	348
45°	453	450	450	445	445	349
55°	336	335	331	330	329	298
65°	199	195	190	189	190	198
75°	90	90	89	88	88	98
85°	21	23	23	23	23	25
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°	22.5°	45°	67.5°	90°
0°	725.8	725.8	725.8	725.8	725.8
2.5°	730.4	724.5	725.8	724.8	721.8
5°	728.3	721.6	723.9	721.4	721.4
7.5°	723.4	715.9	718.3	715.7	715.7
10°	718.9	711.4	713.8	711.2	710.6
12.5°	712.3	704.8	707.6	704.6	704.5
15°	700.4	693.5	696.6	693.9	692.7
17.5°	687.1	679.6	683.2	679.7	679.1
20°	676.8	669.3	673.0	668.0	668.0
22.5°	664.7	657.2	661.4	654.7	654.7
25°	645.0	637.5	640.6	634.8	634.3
27.5°	621.8	614.4	617.6	611.0	610.9
30°	605.0	598.1	601.8	594.8	594.1
32.5°	586.7	580.3	583.0	575.9	575.2
35°	557.3	551.7	553.4	547.0	546.5
37.5°	526.3	520.7	522.6	517.1	516.9
40°	504.4	500.7	501.2	496.7	495.5
42.5°	484.1	479.9	480.4	475.9	475.7
45°	452.9	449.7	449.7	445.3	445.3
47.5°	419.9	417.5	416.8	413.0	412.9
50°	396.9	395.1	394.4	391.2	390.5
52.5°	373.0	372.1	370.0	367.3	367.2
55°	335.9	334.6	331.4	329.5	328.9
57.5°	295.6	293.0	289.5	286.7	287.1
60°	266.5	264.0	258.9	257.7	257.7
62.5°	238.6	235.6	230.4	228.7	229.7
65°	198.6	194.8	190.2	189.0	189.5
67.5°	162.1	158.7	153.8	153.8	153.3
70°	138.7	136.7	133.0	133.0	133.0
72.5°	117.8	116.9	114.2	114.1	113.7
75°	90.4	90.4	89.1	88.4	87.7
77.5°	67.6	67.9	67.3	66.7	65.5
80°	53.4	54.8	54.1	53.4	52.7
82.5°	40.2	41.5	41.4	40.2	40.0
85°	20.9	22.8	23.0	23.0	23.0
87.5°	5.6	7.6	8.1	8.1	8.6
90°	7.6	11.2	11.2	7.6	3.8
92.5°	18.8	56.4	52.6	22.6	18.8
95°	33.8	116.5	338.3	86.4	52.6
97.5°	52.6	131.6	676.6	308.3	165.4
100°	71.4	139.1	789.3	740.5	477.4
102.5°	94.0	150.3	785.5	1041.2	856.9
105°	116.5	165.4	732.9	1236.6	1150.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.4	221.7	571.4	1244.1	1417.1
115°	202.9	244.3	545.0	1150.2	1356.9
117.5°	225.5	270.7	530.0	1063.7	1270.4
120°	244.3	293.1	518.7	981.0	1184.0
122.5°	259.3	315.7	511.2	913.3	1097.6
125°	274.3	338.3	507.4	856.9	1022.4
127.5°	289.5	353.3	507.4	815.7	954.7
130°	304.5	360.9	503.6	774.3	898.3
132.5°	319.5	364.6	503.6	744.2	849.5
135°	330.7	372.1	503.6	714.2	808.1
137.5°	345.8	379.6	503.6	687.8	774.3
140°	357.1	390.9	503.6	661.5	736.7
142.5°	372.1	402.2	503.6	635.2	702.9
145°	387.1	413.5	499.9	616.4	669.0
147.5°	402.2	424.7	496.2	597.6	639.0
150°	413.5	436.0	496.2	578.8	612.6
152.5°	428.5	447.3	492.4	560.0	590.2
155°	439.8	454.8	492.4	548.8	567.6
157.5°	451.0	466.1	492.4	537.5	552.6
160°	462.3	473.6	496.2	530.0	541.2
162.5°	473.6	481.1	496.2	522.4	530.0
165°	481.1	484.9	496.2	518.7	522.4
167.5°	488.6	492.4	496.2	515.0	515.0
170°	492.4	496.2	499.9	511.2	511.2
172.5°	499.9	499.9	499.9	507.4	507.4
175°	503.6	503.6	499.9	507.4	503.6
177.5°	503.6	503.6	499.9	507.4	503.6
180°	503.6	503.6	503.6	503.6	503.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	139.1	184.2	665.3	1323.1	1338.1
110°	157.9	202.9	612.6	1311.8	1420.7



(END OF REPORT)