

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: P845073

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

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845073  
REPORT IS A COMBINATION OF REPORTS P700199 AND P700244  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PP3-050U-050D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT  
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

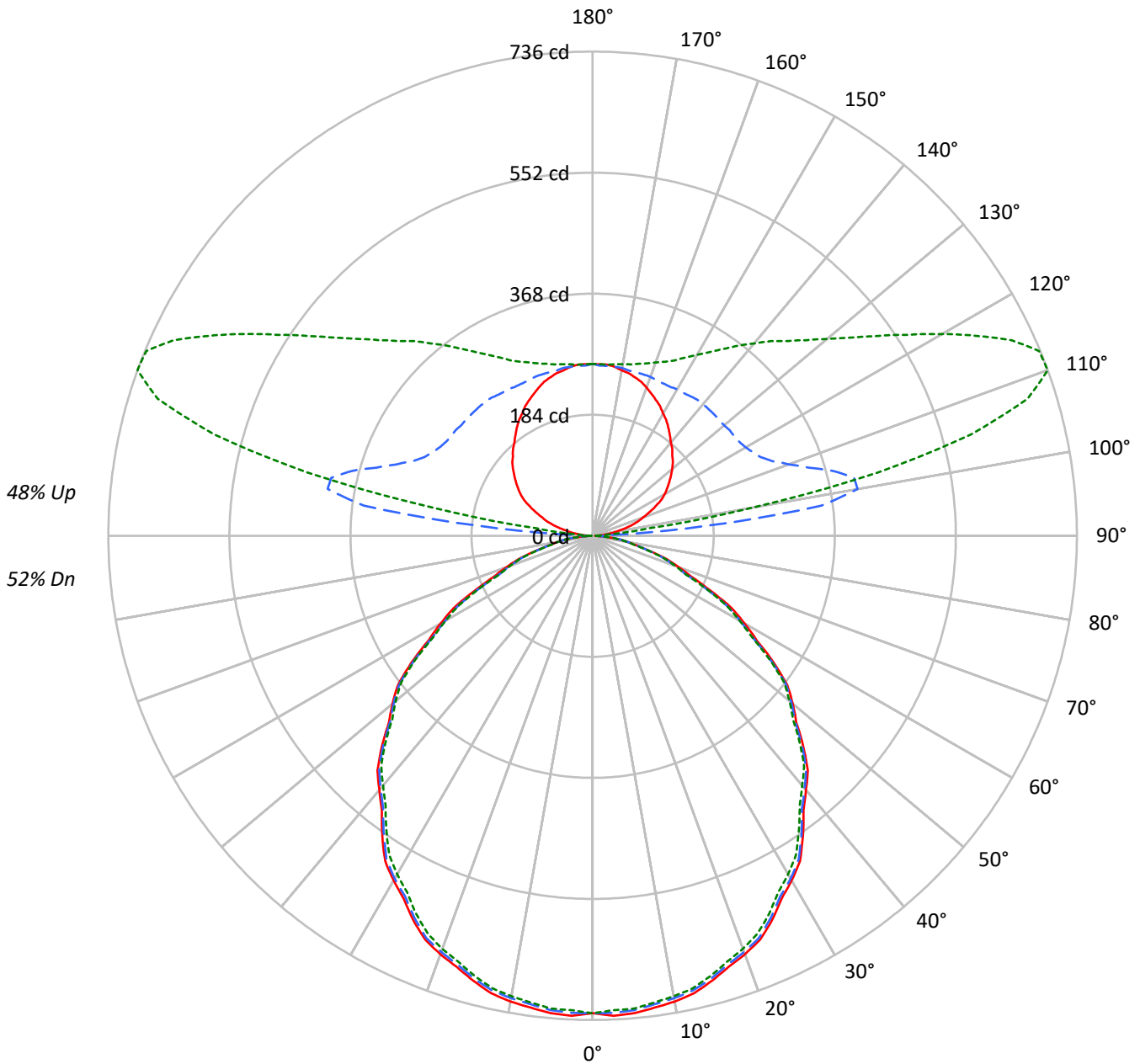
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3551.9 lumens  
Efficiency: N/A  
Efficacy: 119.2 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: General Diffuse

Input Watts (W): 29.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52								
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	52	51	50	45								
2	90	83	76	71	83	77	71	67	66	62	58	55	52	50	46	44	42	38								
3	82	73	65	60	76	68	61	56	58	53	49	49	45	42	41	38	36	32								
4	75	64	57	51	69	60	53	48	52	46	42	44	40	36	36	34	31	28								
5	69	57	49	43	64	54	46	41	46	41	36	39	35	32	33	30	27	24								
6	64	52	43	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21								
7	59	47	39	33	54	44	36	31	38	32	28	32	28	25	27	24	21	19								
8	55	42	35	29	50	40	33	28	34	29	25	30	25	22	25	22	19	17								
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15								
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14								

**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	1.9
10°-20°	196.0	5.5
20°-30°	293.5	8.3
30°-40°	344.3	9.7
40°-50°	345.4	9.7
50°-60°	294.6	8.3
60°-70°	192.2	5.4
70°-80°	96.4	2.7
80°-90°	27.3	0.8
90°-100°	103.8	2.9
100°-110°	361.4	10.2
110°-120°	350.0	9.9
120°-130°	274.6	7.7
130°-140°	217.3	6.1
140°-150°	167.7	4.7
150°-160°	120.2	3.4
160°-170°	73.5	2.1
170°-180°	24.9	0.7
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0°-30°	558.1	15.7
0°-40°	902.4	25.4
0°-60°	1542.4	43.4
0°-90°	1858.4	52.3
90°-120°	815.2	23.0
90°-150°	1474.9	41.5
90°-180°	1694.0	47.7
0°-180°	3551.9	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°	4	6	6	4	2	3
95°	18	60	175	45	27	19
105°	60	86	380	641	596	63
115°	105	127	282	596	703	104
125°	142	175	263	444	530	127
135°	171	193	261	370	419	133
145°	201	214	259	319	347	125
155°	228	236	255	284	294	105
165°	249	251	257	269	271	70
175°	261	261	259	263	261	25
180°	261	261	261	261	261	



TEST NUMBER: P845073

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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°	3.9	5.8	5.8	3.9	1.9
92.5°	9.7	29.2	27.2	11.7	9.7
95°	17.5	60.4	175.3	44.8	27.2
97.5°	27.2	68.1	350.5	159.7	85.7
100°	37.0	72.1	408.9	383.7	247.3
102.5°	48.6	77.9	407.0	539.4	444.0
105°	60.4	85.7	379.8	640.6	595.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	93.5	114.9	296.0	644.6	734.2
115°	105.1	126.6	282.4	595.9	703.0
117.5°	116.9	140.2	274.5	551.1	658.2
120°	126.6	151.9	268.7	508.3	613.4
122.5°	134.4	163.6	264.8	473.2	568.6
125°	142.2	175.3	262.9	444.0	529.7
127.5°	149.9	183.1	262.9	422.6	494.6
130°	157.8	186.9	261.0	401.2	465.4
132.5°	165.5	188.9	261.0	385.6	440.1
135°	171.3	192.7	261.0	370.0	418.7
137.5°	179.2	196.7	261.0	356.3	401.2
140°	185.0	202.5	261.0	342.8	381.7
142.5°	192.7	208.3	261.0	329.1	364.2
145°	200.6	214.3	259.0	319.4	346.6
147.5°	208.3	220.1	257.1	309.6	331.0
150°	214.3	225.9	257.1	299.9	317.5
152.5°	222.0	231.7	255.2	290.1	305.7
155°	227.8	235.7	255.2	284.3	294.0
157.5°	233.6	241.5	255.2	278.5	286.3
160°	239.6	245.4	257.1	274.5	280.4
162.5°	245.4	249.2	257.1	270.7	274.5
165°	249.2	251.2	257.1	268.7	270.7
167.5°	253.1	255.2	257.1	266.8	266.8
170°	255.2	257.1	259.0	264.8	264.8
172.5°	259.0	259.0	259.0	262.9	262.9
175°	261.0	261.0	259.0	262.9	261.0
177.5°	261.0	261.0	259.0	262.9	261.0
180°	261.0	261.0	261.0	261.0	261.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	72.1	95.5	344.7	685.5	693.3
110°	81.8	105.1	317.5	679.6	736.1



(END OF REPORT)