

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: P844897

Luminaire Tested: **SQ4P-F-025U-075D-B50-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P844897  
REPORT IS A COMBINATION OF REPORTS P700164 AND P700243  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-F-025U-075D-B50-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

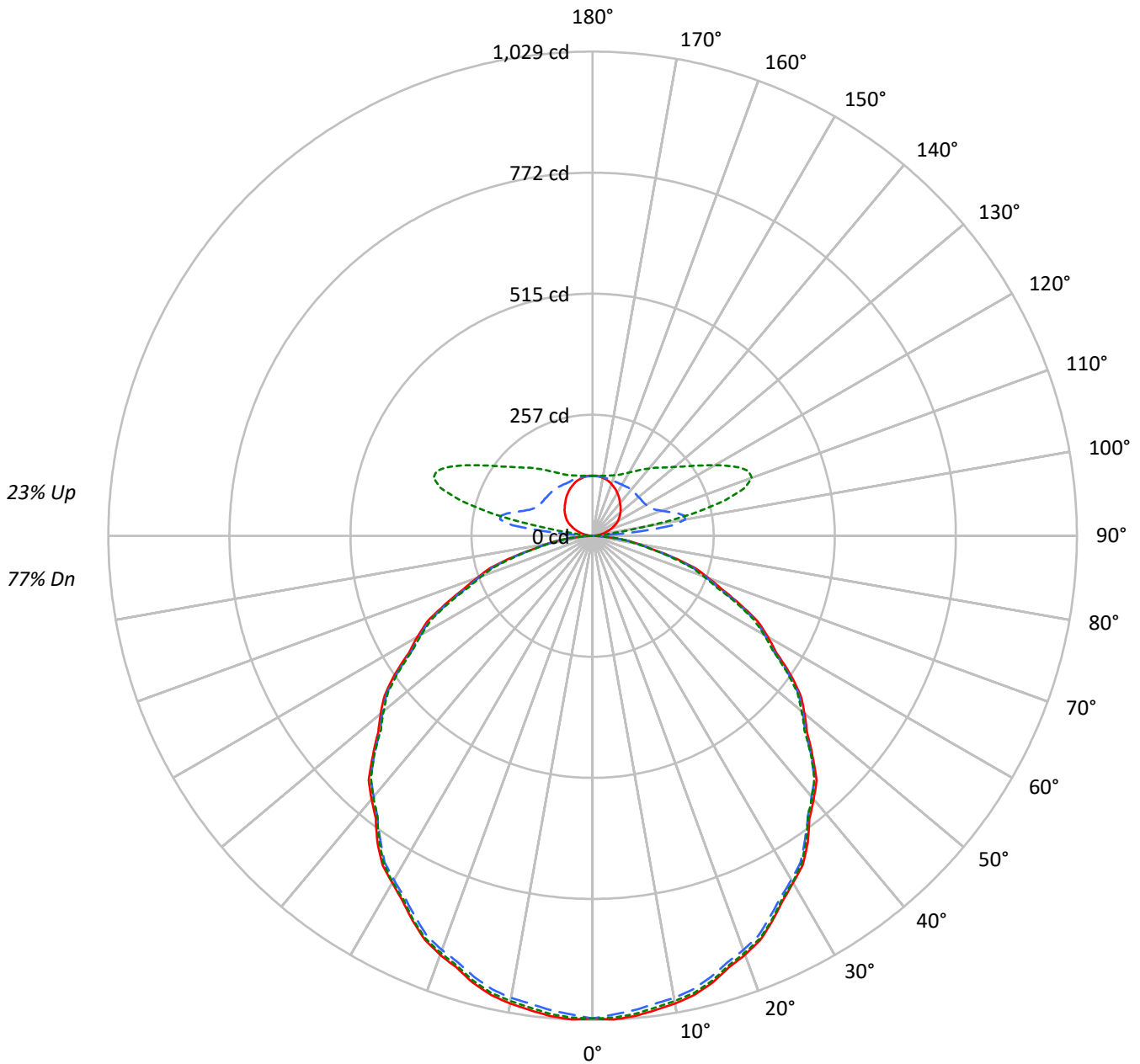
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3628.2 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 32.6  
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

TEST NUMBER: P844897  
CATALOG NUMBER: SQ4P-F-025U-075D-B50-1D-UNV

### 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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77			77
1	104	99	95	92	99	95	91	88	86	84	81	79	77	75	72	70	69	65			65
2	95	87	80	75	90	83	77	72	76	71	67	69	65	62	63	60	58	54			54
3	86	76	68	62	82	73	66	60	67	61	56	61	56	52	56	52	49	46			46
4	79	67	59	53	75	65	57	51	59	53	48	54	49	45	50	45	42	39			39
5	72	60	52	45	69	58	50	44	53	46	41	49	43	39	45	40	36	34			34
6	67	54	45	39	63	52	44	38	48	41	36	44	38	34	41	36	32	30			30
7	62	49	40	35	59	47	39	34	43	37	32	40	34	30	37	32	28	26			26
8	58	45	36	31	55	43	35	30	40	33	28	37	31	27	34	29	26	23			23
9	54	41	33	28	51	39	32	27	36	30	26	34	28	24	31	27	23	21			21
10	50	38	30	25	48	36	29	24	34	27	23	31	26	22	29	24	21	19			19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9464	9464	9464
5°	9489	9374	9450
10°	9456	9340	9405
15°	9392	9274	9353
20°	9303	9196	9264
25°	9199	9087	9172
30°	9071	8997	9055
35°	8973	8864	8909
40°	8802	8716	8734
45°	8618	8548	8548
50°	8437	8359	8319
55°	8241	8130	8086
60°	7933	7805	7756
65°	7556	7405	7313
70°	7041	6887	6741
75°	6313	6121	5971
80°	5111	5042	4888
85°	3038	3493	3631



TEST NUMBER: P844897

CATALOG NUMBER: SQ4P-F-025U-075D-B50-1D-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.8	2.7
10°-20°	275.6	7.6
20°-30°	414.0	11.4
30°-40°	494.2	13.6
40°-50°	506.4	14.0
50°-60°	451.6	12.4
60°-70°	336.3	9.3
70°-80°	182.6	5.0
80°-90°	42.6	1.2
90°-100°	50.8	1.4
100°-110°	176.7	4.9
110°-120°	171.2	4.7
120°-130°	134.2	3.7
130°-140°	106.3	2.9
140°-150°	82.0	2.3
150°-160°	58.8	1.6
160°-170°	36.0	1.0
170°-180°	12.2	0.3
0°-30°	786.4	21.7
0°-40°	1280.6	35.3
0°-60°	2238.7	61.7
0°-90°	2800.2	77.2
90°-120°	398.6	11.0
90°-150°	721.1	19.9
90°-180°	828.0	22.8
0°-180°	3628.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1025	1023	1012	1022	1020	97
15°	983	980	971	979	979	277
25°	904	901	893	898	901	416
35°	797	794	787	787	791	497
45°	660	662	655	654	655	510
55°	512	512	505	501	503	456
65°	346	345	339	335	335	343
75°	177	176	172	169	168	187
85°	29	31	33	34	34	40
90°	2	3	3	2	1	2
95°	9	30	86	22	13	9
105°	30	42	186	313	291	31
115°	51	62	138	291	344	51
125°	70	86	128	217	259	62
135°	84	94	128	181	205	65
145°	98	105	127	156	170	61
155°	111	115	125	139	144	51
165°	122	123	126	131	132	34
175°	128	128	127	128	128	12
180°	128	128	128	128	128	



TEST NUMBER: P844897

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1025.8	1025.8	1025.8	1025.8	1025.8
2.5°	1029.0	1026.9	1018.2	1025.8	1024.9
5°	1024.6	1023.1	1012.2	1021.7	1020.4
7.5°	1017.0	1014.5	1003.5	1013.0	1011.6
10°	1009.3	1006.6	997.0	1005.1	1003.9
12.5°	999.5	997.9	987.2	995.4	995.1
15°	983.3	980.5	970.9	979.2	979.2
17.5°	961.9	960.3	950.8	958.7	957.9
20°	947.5	944.9	936.6	943.5	943.5
22.5°	930.0	928.4	920.2	925.8	927.0
25°	903.6	901.0	892.6	898.2	901.0
27.5°	874.5	872.4	865.6	869.1	871.0
30°	851.5	851.5	844.5	846.0	850.0
32.5°	830.6	830.6	822.6	824.1	826.0
35°	796.7	793.9	787.0	787.0	791.0
37.5°	756.9	755.6	751.2	750.5	751.6
40°	730.8	729.3	723.7	725.2	725.2
42.5°	704.3	702.9	697.3	695.5	697.5
45°	660.5	661.9	655.1	653.7	655.1
47.5°	617.6	617.6	612.0	608.2	610.2
50°	587.8	587.8	582.4	579.6	579.6
52.5°	557.0	558.1	551.4	547.7	548.8
55°	512.3	512.3	505.4	501.3	502.7
57.5°	462.8	462.8	456.0	451.8	454.2
60°	429.9	429.9	423.0	418.8	420.3
62.5°	396.9	396.9	390.1	386.0	386.1
65°	346.1	344.8	339.2	335.0	335.0
67.5°	297.1	293.6	289.5	284.0	284.0
70°	261.0	259.5	255.3	249.9	249.9
72.5°	227.9	225.5	221.3	217.1	217.1
75°	177.1	175.6	171.7	169.0	167.5
77.5°	126.9	125.9	125.5	121.7	122.8
80°	96.2	96.2	94.9	92.0	92.0
82.5°	68.6	69.7	67.3	66.6	65.6
85°	28.7	31.4	33.0	34.3	34.3
87.5°	5.6	8.7	7.7	8.9	8.9
90°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.3	13.3	5.7	4.8
95°	8.6	29.5	85.7	21.9	13.3
97.5°	13.3	33.3	171.4	78.1	41.9
100°	18.1	35.2	199.9	187.5	120.9
102.5°	23.8	38.1	199.0	263.7	217.1
105°	29.5	41.9	185.6	313.3	291.4



TEST NUMBER: P844897

CATALOG NUMBER: SQ4P-F-025U-075D-B50-1D-UNV

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	45.7	56.2	144.7	315.2	359.0
115°	51.4	61.9	138.0	291.4	343.8
117.5°	57.1	68.5	134.2	269.4	321.9
120°	61.9	74.3	131.4	248.5	300.0
122.5°	65.7	80.0	129.5	231.3	278.1
125°	69.5	85.7	128.5	217.1	259.0
127.5°	73.3	89.5	128.5	206.6	241.8
130°	77.1	91.4	127.6	196.1	227.5
132.5°	80.9	92.3	127.6	188.5	215.2
135°	83.8	94.3	127.6	180.9	204.7
137.5°	87.6	96.2	127.6	174.2	196.1
140°	90.4	99.0	127.6	167.6	186.6
142.5°	94.3	101.9	127.6	160.9	178.0
145°	98.1	104.7	126.6	156.1	169.5
147.5°	101.9	107.6	125.7	151.4	161.8
150°	104.7	110.4	125.7	146.6	155.2
152.5°	108.5	113.3	124.7	141.9	149.5
155°	111.4	115.2	124.7	139.0	143.8
157.5°	114.2	118.1	124.7	136.1	139.9
160°	117.1	120.0	125.7	134.2	137.1
162.5°	120.0	121.9	125.7	132.3	134.2
165°	121.9	122.8	125.7	131.4	132.3
167.5°	123.8	124.7	125.7	130.4	130.4
170°	124.7	125.7	126.6	129.5	129.5
172.5°	126.6	126.6	126.6	128.5	128.5
175°	127.6	127.6	126.6	128.5	127.6
177.5°	127.6	127.6	126.6	128.5	127.6
180°	127.6	127.6	127.6	127.6	127.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	35.2	46.6	168.5	335.2	339.0
110°	40.0	51.4	155.2	332.4	360.0



(END OF REPORT)