

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: P845288

Luminaire Tested: **SQ4P-PW1-125U-050D-B35-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845288  
REPORT IS A COMBINATION OF REPORTS P700123 AND P700247  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PW1-125U-050D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT  
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

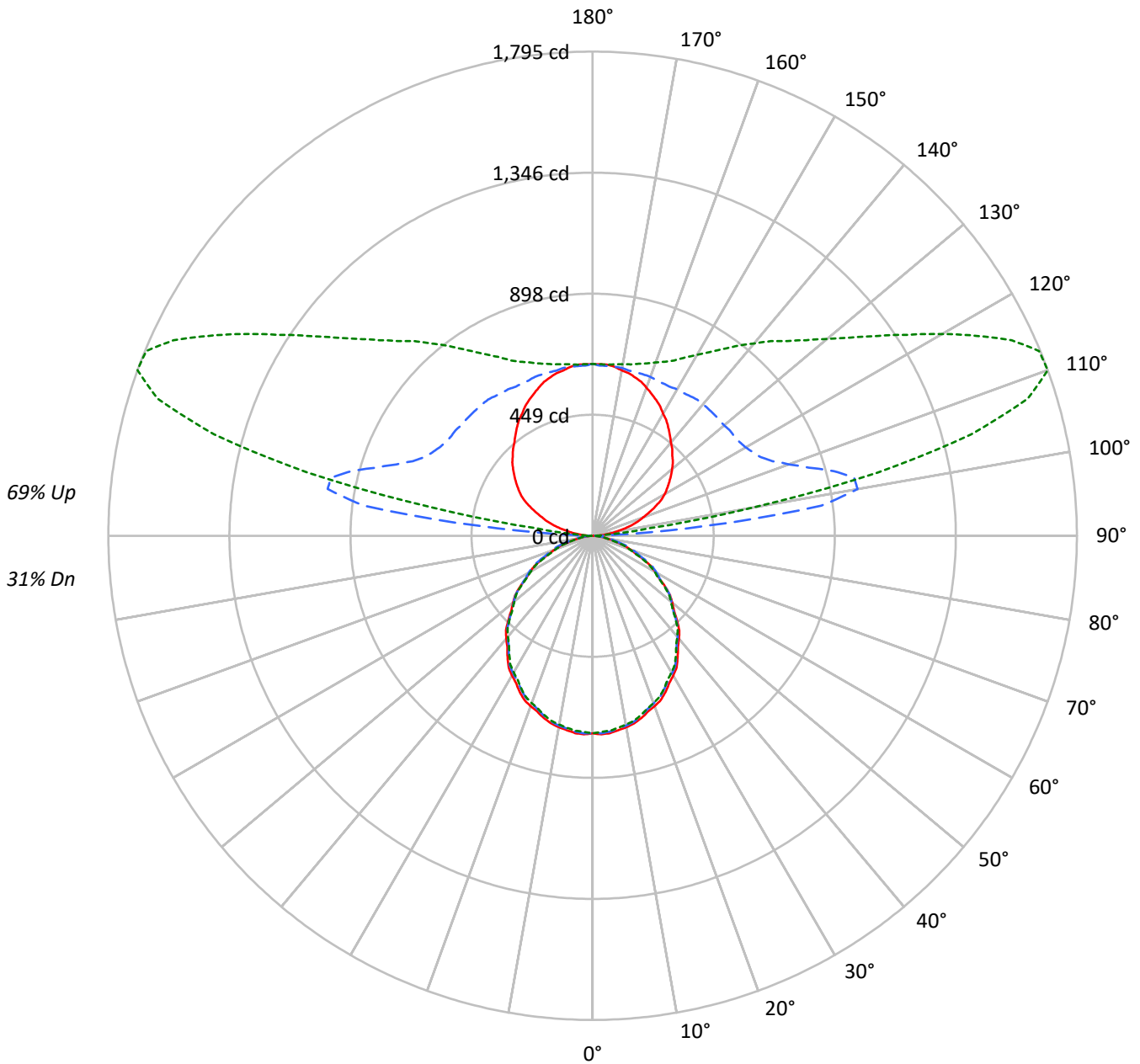
Lumens per Lamp: N/A  
Luminaire Lumens: 5996.1 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 50.8  
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

TEST NUMBER: P845288

CATALOG NUMBER: SQ4P-PW1-125U-050D-B35-1D-UNV

### 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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31																			
1	94	89	86	82	84	81	77	75	64	62	60	48	47	46	34	34	33	26																			
2	85	78	72	67	76	70	65	61	56	52	50	43	40	38	30	29	28	22																			
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19																			
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16																			
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14																			
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12																			
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11																			
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	10																			
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9																			
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8																			

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

	0°	45°	90°
0°	6760	6760	6760
5°	6803	6750	6720
10°	6749	6695	6658
15°	6679	6604	6579
20°	6598	6496	6484
25°	6506	6388	6368
30°	6369	6273	6231
35°	6188	6099	6063
40°	5994	5902	5877
45°	5761	5686	5660
50°	5523	5476	5439
55°	5263	5263	5181
60°	4943	5039	4860
65°	4523	4748	4412
70°	3987	4373	3882
75°	3408	3911	3315
80°	2641	3289	2678
85°	1704	2530	2244



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.0	1.2
10°-20°	194.8	3.2
20°-30°	288.9	4.8
30°-40°	338.1	5.6
40°-50°	336.6	5.6
50°-60°	290.7	4.8
60°-70°	209.2	3.5
70°-80°	109.7	1.8
80°-90°	28.7	0.5
90°-100°	253.3	4.2
100°-110°	881.3	14.7
110°-120°	853.7	14.2
120°-130°	669.7	11.2
130°-140°	530.1	8.8
140°-150°	409.1	6.8
150°-160°	293.2	4.9
160°-170°	179.4	3.0
170°-180°	60.7	1.0
0°-30°	552.7	9.2
0°-40°	890.8	14.9
0°-60°	1518.0	25.3
0°-90°	1865.7	31.1
90°-120°	1988.3	33.2
90°-150°	3597.1	60.0
90°-180°	4130.0	68.9
0°-180°	5996.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	735	726	729	727	726	70
15°	699	690	691	690	689	197
25°	639	628	628	624	626	294
35°	549	542	542	536	538	343
45°	442	438	436	434	434	341
55°	327	327	327	323	322	292
65°	207	214	218	209	202	205
75°	96	104	110	102	93	102
85°	16	21	24	23	21	21
90°	10	14	14	10	5	6
95°	43	147	427	109	66	45
105°	147	209	926	1563	1453	155
115°	256	309	689	1453	1714	253
125°	347	427	641	1083	1292	310
135°	418	470	636	902	1021	324
145°	489	522	632	779	845	306
155°	556	575	622	693	717	256
165°	608	613	627	655	660	171
175°	636	636	632	641	636	60
180°	636	636	636	636	636	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	732.7	732.7	732.7	732.7	732.7
2.5°	736.9	730.8	732.7	731.1	727.6
5°	734.6	726.4	728.8	726.9	725.6
7.5°	727.2	719.6	721.3	719.2	718.6
10°	720.4	712.9	714.6	712.1	710.7
12.5°	712.7	704.6	706.4	703.7	703.0
15°	699.2	690.3	691.4	690.0	688.8
17.5°	683.3	674.4	674.5	672.6	672.2
20°	672.0	662.6	661.6	659.1	660.4
22.5°	659.7	649.7	648.8	645.2	646.9
25°	639.1	628.3	627.5	623.6	625.5
27.5°	615.3	604.8	604.8	599.4	601.3
30°	597.8	587.6	588.8	582.3	584.9
32.5°	579.2	570.1	570.6	564.2	566.9
35°	549.4	541.8	541.5	536.4	538.3
37.5°	518.8	512.2	511.1	508.2	508.7
40°	497.7	492.0	490.0	488.0	488.0
42.5°	475.5	470.4	468.2	466.8	466.4
45°	441.5	437.8	435.8	434.4	433.8
47.5°	408.0	404.4	402.7	401.8	401.1
50°	384.8	382.2	381.5	379.6	378.9
52.5°	361.6	360.0	359.3	356.9	356.2
55°	327.2	326.7	327.2	322.8	322.1
57.5°	291.6	292.7	294.7	288.7	287.1
60°	267.9	270.4	273.1	266.0	263.4
62.5°	243.6	247.7	251.4	243.2	239.6
65°	207.2	213.5	217.5	209.0	202.1
67.5°	172.1	180.0	184.8	175.6	167.7
70°	147.8	156.7	162.1	152.8	143.9
72.5°	126.6	136.5	140.9	132.1	123.3
75°	95.6	104.4	109.7	102.4	93.0
77.5°	67.8	76.1	80.5	74.2	66.3
80°	49.7	58.5	61.9	56.7	50.4
82.5°	35.2	42.7	44.9	41.7	37.4
85°	16.1	21.1	23.9	22.6	21.2
87.5°	4.1	7.6	9.8	9.8	10.4
90°	9.5	14.3	14.3	9.5	4.8
92.5°	23.8	71.2	66.4	28.5	23.8
95°	42.8	147.3	427.4	109.2	66.4
97.5°	66.4	166.3	854.9	389.5	209.0
100°	90.2	175.8	997.4	935.6	603.2
102.5°	118.7	189.9	992.7	1315.6	1082.9
105°	147.3	209.0	926.1	1562.6	1453.4



TEST NUMBER: P845288

CATALOG NUMBER: SQ4P-PW1-125U-050D-B35-1D-UNV

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	228.0	280.3	721.9	1572.1	1790.6
115°	256.5	308.7	688.7	1453.4	1714.5
117.5°	285.0	342.0	669.6	1344.2	1605.3
120°	308.7	370.5	655.4	1239.6	1496.1
122.5°	327.7	399.0	646.0	1154.1	1386.8
125°	346.7	427.4	641.2	1082.9	1291.9
127.5°	365.7	446.4	641.2	1030.6	1206.4
130°	384.7	455.9	636.5	978.4	1135.1
132.5°	403.8	460.7	636.5	940.4	1073.4
135°	417.9	470.2	636.5	902.4	1021.1
137.5°	436.9	479.7	636.5	869.2	978.4
140°	451.2	494.0	636.5	835.9	930.9
142.5°	470.2	508.2	636.5	802.6	888.1
145°	489.2	522.5	631.7	778.9	845.4
147.5°	508.2	536.6	627.0	755.2	807.4
150°	522.5	550.9	627.0	731.4	774.1
152.5°	541.4	565.2	622.2	707.7	745.7
155°	555.7	574.7	622.2	693.4	717.2
157.5°	569.9	588.9	622.2	679.2	698.2
160°	584.2	598.4	627.0	669.6	683.9
162.5°	598.4	608.0	627.0	660.1	669.6
165°	608.0	612.7	627.0	655.4	660.1
167.5°	617.5	622.2	627.0	650.6	650.6
170°	622.2	627.0	631.7	646.0	646.0
172.5°	631.7	631.7	631.7	641.2	641.2
175°	636.5	636.5	631.7	641.2	636.5
177.5°	636.5	636.5	631.7	641.2	636.5
180°	636.5	636.5	636.5	636.5	636.5



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	175.8	232.7	840.7	1671.8	1690.9
110°	199.4	256.5	774.1	1657.6	1795.3



(END OF REPORT)