

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: P845291

Luminaire Tested: **SQ4P-PW1-125U-075D-B35-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845291  
REPORT IS A COMBINATION OF REPORTS P700124 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-075D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT  
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

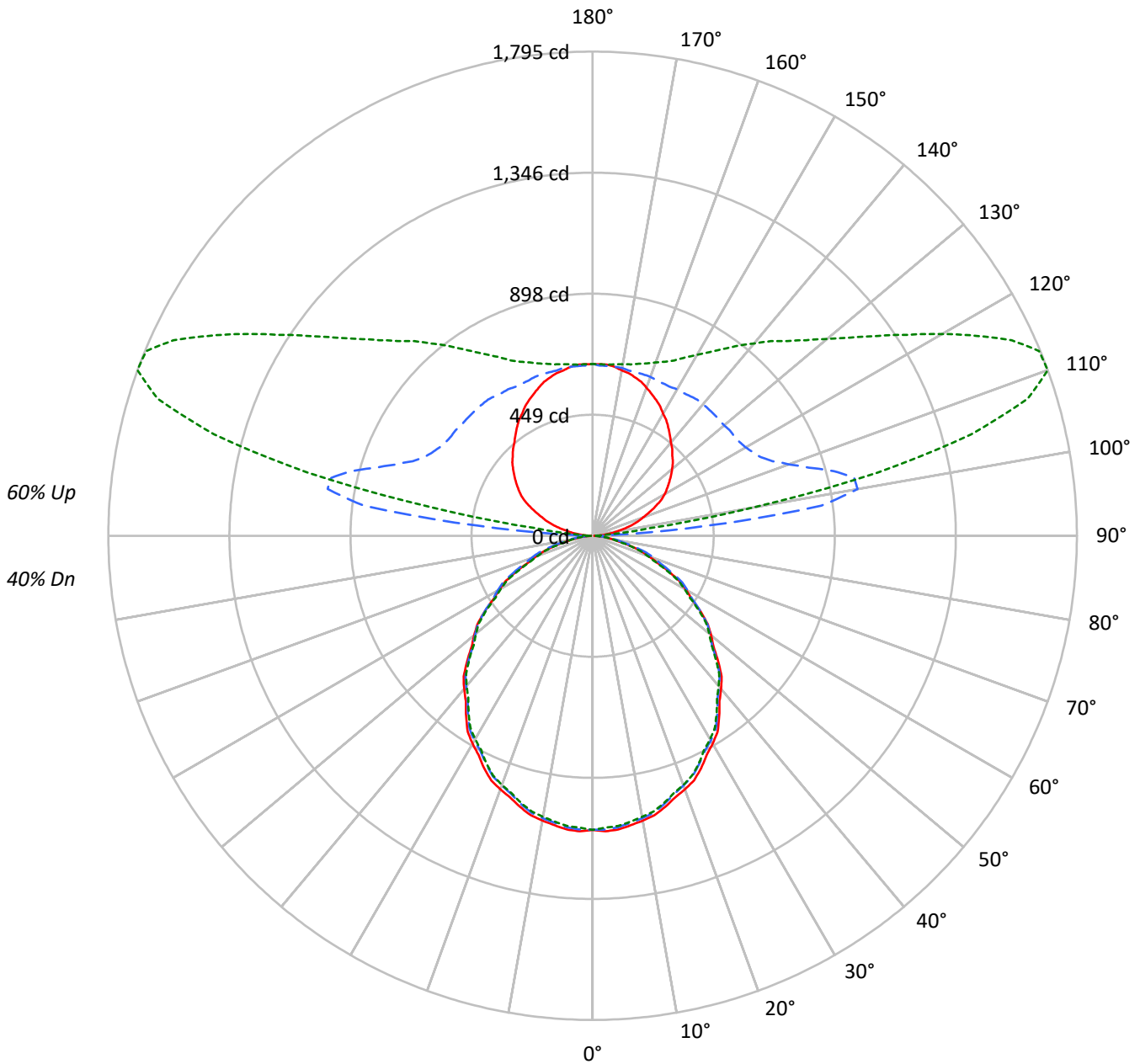
Lumens per Lamp: N/A  
Luminaire Lumens: 6906.2 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 59.6  
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

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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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40								
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34								
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	29								
3	80	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	24								
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21								
5	67	55	47	41	60	51	44	39	42	37	33	34	30	27	26	24	22	18								
6	61	50	42	36	56	45	38	33	38	32	29	31	27	24	24	21	19	16								
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14								
8	53	40	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13								
9	49	37	30	25	44	34	27	23	29	23	20	23	19	17	18	16	14	11								
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12	10								

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

	0°	45°	90°
0°	10059	10059	10059
5°	10126	10045	10001
10°	10044	9963	9909
15°	9939	9828	9790
20°	9819	9667	9650
25°	9682	9506	9476
30°	9477	9335	9273
35°	9209	9077	9024
40°	8922	8781	8748
45°	8574	8462	8422
50°	8220	8151	8092
55°	7834	7834	7711
60°	7359	7499	7233
65°	6731	7067	6565
70°	5932	6504	5781
75°	5073	5821	4930
80°	3932	4904	3990
85°	2541	3769	3345



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.7	1.5
10°-20°	289.9	4.2
20°-30°	430.0	6.2
30°-40°	503.1	7.3
40°-50°	500.9	7.3
50°-60°	432.6	6.3
60°-70°	311.3	4.5
70°-80°	163.3	2.4
80°-90°	42.0	0.6
90°-100°	253.3	3.7
100°-110°	881.3	12.8
110°-120°	853.7	12.4
120°-130°	669.7	9.7
130°-140°	530.1	7.7
140°-150°	409.1	5.9
150°-160°	293.2	4.2
160°-170°	179.4	2.6
170°-180°	60.7	0.9
0°-30°	822.6	11.9
0°-40°	1325.7	19.2
0°-60°	2259.1	32.7
0°-90°	2775.8	40.2
90°-120°	1988.3	28.8
90°-150°	3597.1	52.1
90°-180°	4130.0	59.8
0°-180°	6906.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1093	1081	1085	1082	1080	104
15°	1040	1027	1029	1027	1025	293
25°	951	935	934	928	931	437
35°	818	806	806	798	801	511
45°	657	651	648	646	646	507
55°	487	486	487	480	479	435
65°	308	318	324	311	301	306
75°	142	155	163	152	138	152
85°	24	32	36	34	32	32
90°	10	14	14	10	5	7
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°	1090.3	1090.3	1090.3	1090.3	1090.3
2.5°	1096.6	1087.5	1090.3	1088.0	1082.7
5°	1093.3	1081.0	1084.6	1081.7	1079.8
7.5°	1082.2	1070.9	1073.4	1070.5	1069.3
10°	1072.1	1060.9	1063.5	1059.7	1057.7
12.5°	1060.7	1048.5	1051.3	1047.3	1046.3
15°	1040.5	1027.2	1028.9	1026.9	1025.0
17.5°	1016.9	1003.7	1003.9	1000.9	1000.4
20°	1000.1	986.0	984.6	980.8	982.9
22.5°	981.7	966.8	965.5	960.2	962.8
25°	951.1	935.1	933.8	928.1	930.8
27.5°	915.7	900.1	900.1	892.0	894.9
30°	889.6	874.5	876.2	866.6	870.4
32.5°	861.9	848.4	849.2	839.8	843.5
35°	817.6	806.3	805.9	798.3	801.2
37.5°	772.2	762.3	760.6	756.3	756.9
40°	740.8	732.3	729.1	726.3	726.3
42.5°	707.6	700.0	696.8	694.7	694.0
45°	657.1	651.4	648.5	646.5	645.5
47.5°	607.1	601.9	599.3	598.0	597.0
50°	572.7	568.8	567.9	564.8	563.8
52.5°	538.0	535.8	534.7	531.1	530.1
55°	487.0	486.2	487.0	480.4	479.4
57.5°	434.0	435.6	438.7	429.6	427.2
60°	398.8	402.4	406.4	395.8	392.0
62.5°	362.5	368.6	374.1	361.9	356.5
65°	308.3	317.7	323.7	311.0	300.7
67.5°	256.2	267.7	274.9	261.3	249.5
70°	219.9	233.2	241.1	227.3	214.3
72.5°	188.5	203.2	209.6	196.6	183.5
75°	142.3	155.3	163.3	152.4	138.3
77.5°	100.9	113.3	119.9	110.5	98.7
80°	74.0	87.1	92.3	84.3	75.1
82.5°	52.5	63.4	66.9	62.1	55.7
85°	24.0	31.5	35.6	33.7	31.6
87.5°	6.2	11.4	14.6	14.6	15.4
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



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**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)