

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: P845120

Luminaire Tested: **SQ4P-PP3-125U-050D-B35-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845120  
REPORT IS A COMBINATION OF REPORTS P700115 AND P700247  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PP3-125U-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: -

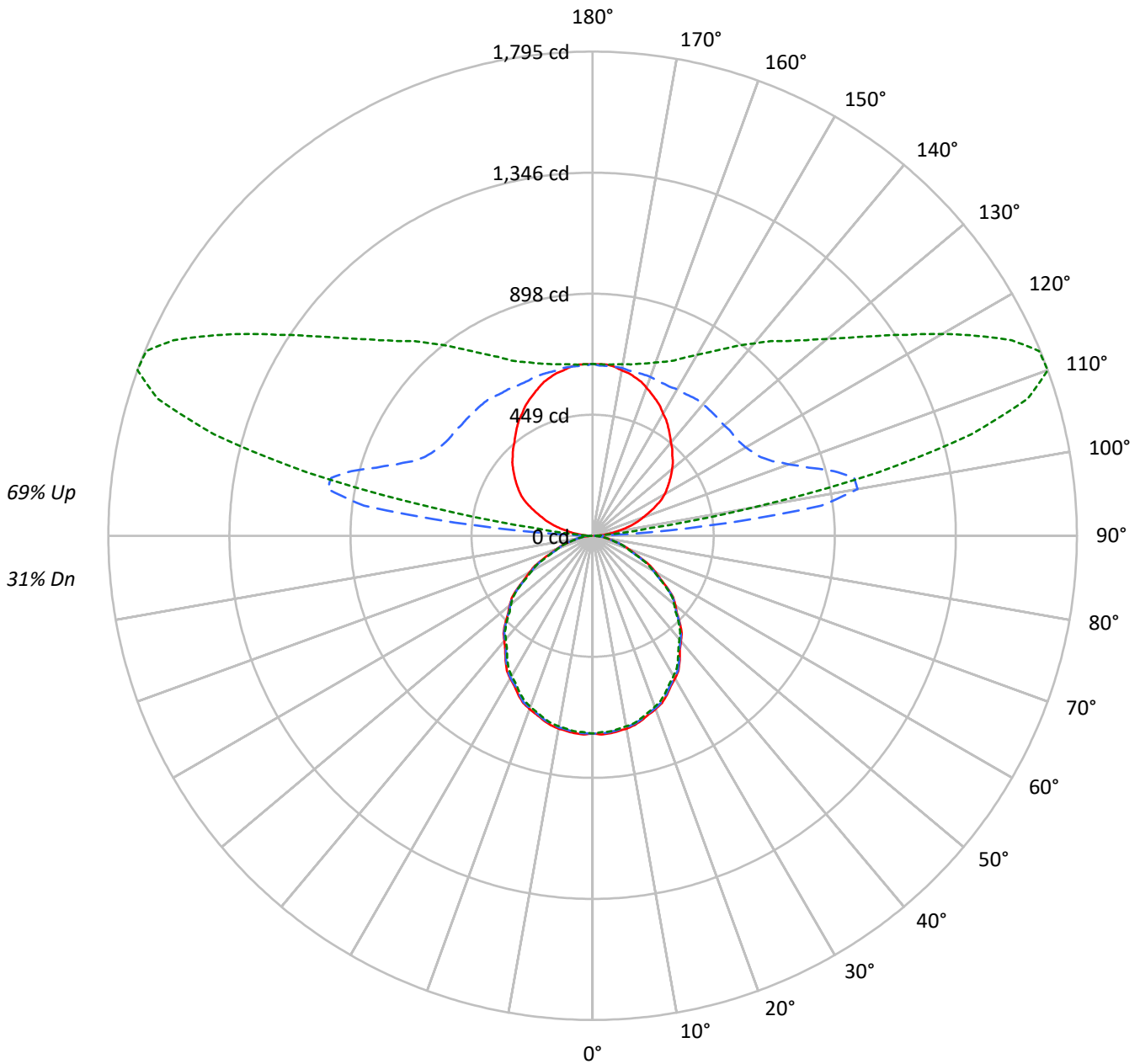
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6007.9 lumens  
Efficiency: N/A  
Efficacy: 118.3 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): 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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31	31	31	31
1	94	90	86	82	84	81	78	75	64	62	60	49	47	46	35	34	33	27	27	27	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	29	28	22	22	22	22
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	25	24	19	19	19	19
4	71	61	53	47	64	55	49	43	44	39	36	34	31	28	24	22	21	16	16	16	16
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	22	20	18	14	14	14	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13	13	13	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11	11	11	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10	10	10	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9	9	9	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8	8	8	8

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

	0°	45°	90°
0°	6762	6762	6762
5°	6812	6770	6746
10°	6801	6753	6723
15°	6756	6719	6681
20°	6710	6673	6622
25°	6630	6585	6520
30°	6508	6474	6392
35°	6339	6295	6215
40°	6134	6095	6026
45°	5968	5926	5868
50°	5753	5717	5661
55°	5456	5384	5342
60°	4966	4825	4801
65°	4377	4194	4178
70°	3777	3623	3623
75°	3255	3205	3158
80°	2864	2901	2827
85°	2234	2456	2456



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.3	1.2
10°-20°	197.9	3.3
20°-30°	296.4	4.9
30°-40°	347.7	5.8
40°-50°	348.8	5.8
50°-60°	297.5	5.0
60°-70°	194.1	3.2
70°-80°	97.4	1.6
80°-90°	28.5	0.5
90°-100°	253.3	4.2
100°-110°	881.3	14.7
110°-120°	853.7	14.2
120°-130°	669.7	11.1
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°	563.6	9.4
0°-40°	911.3	15.2
0°-60°	1557.6	25.9
0°-90°	1877.5	31.3
90°-120°	1988.3	33.1
90°-150°	3597.1	59.9
90°-180°	4130.0	68.7
0°-180°	6007.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	736	729	731	728	728	70
15°	707	700	703	701	700	200
25°	651	644	647	641	640	300
35°	563	557	559	552	552	352
45°	457	454	454	450	450	352
55°	339	338	335	333	332	301
65°	200	197	192	191	191	200
75°	91	91	90	89	89	99
85°	21	23	23	23	23	25
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°	732.9	732.9	732.9	732.9	732.9
2.5°	737.5	731.6	732.9	731.9	728.8
5°	735.5	728.6	731.0	728.4	728.4
7.5°	730.5	723.0	725.3	722.8	722.7
10°	725.9	718.4	720.8	718.2	717.6
12.5°	719.2	711.7	714.5	711.5	711.4
15°	707.3	700.3	703.4	700.8	699.5
17.5°	693.8	686.3	689.9	686.4	685.8
20°	683.4	675.9	679.6	674.5	674.5
22.5°	671.2	663.7	667.9	661.1	661.1
25°	651.3	643.8	646.9	641.1	640.5
27.5°	627.8	620.4	623.6	617.0	616.9
30°	610.9	604.0	607.7	600.6	600.0
32.5°	592.4	586.0	588.7	581.6	580.9
35°	562.8	557.1	558.9	552.4	551.8
37.5°	531.5	525.8	527.7	522.2	522.0
40°	509.3	505.6	506.1	501.6	500.3
42.5°	488.9	484.6	485.1	480.6	480.4
45°	457.4	454.2	454.2	449.7	449.7
47.5°	424.0	421.6	420.9	417.1	417.0
50°	400.8	399.0	398.3	395.0	394.4
52.5°	376.7	375.8	373.6	370.9	370.8
55°	339.2	337.9	334.7	332.7	332.1
57.5°	298.5	295.9	292.3	289.6	289.9
60°	269.1	266.6	261.5	260.2	260.2
62.5°	240.9	237.9	232.7	230.9	231.9
65°	200.5	196.7	192.1	190.8	191.4
67.5°	163.7	160.3	155.3	155.3	154.8
70°	140.0	138.1	134.3	134.3	134.3
72.5°	119.0	118.0	115.3	115.2	114.8
75°	91.3	91.3	89.9	89.2	88.6
77.5°	68.3	68.6	68.0	67.3	66.2
80°	53.9	55.3	54.6	53.9	53.2
82.5°	40.6	41.9	41.8	40.6	40.4
85°	21.1	23.0	23.2	23.2	23.2
87.5°	5.7	7.6	8.2	8.2	8.7
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)