

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: P844802

Luminaire Tested: **SQ4P-125U-0D-B35-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P844802  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-034-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-125U-0D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT  
UPLIGHT, INDIRECT ONLY  
  
Light Source: -  
Ballast/Driver: -

**Summary**

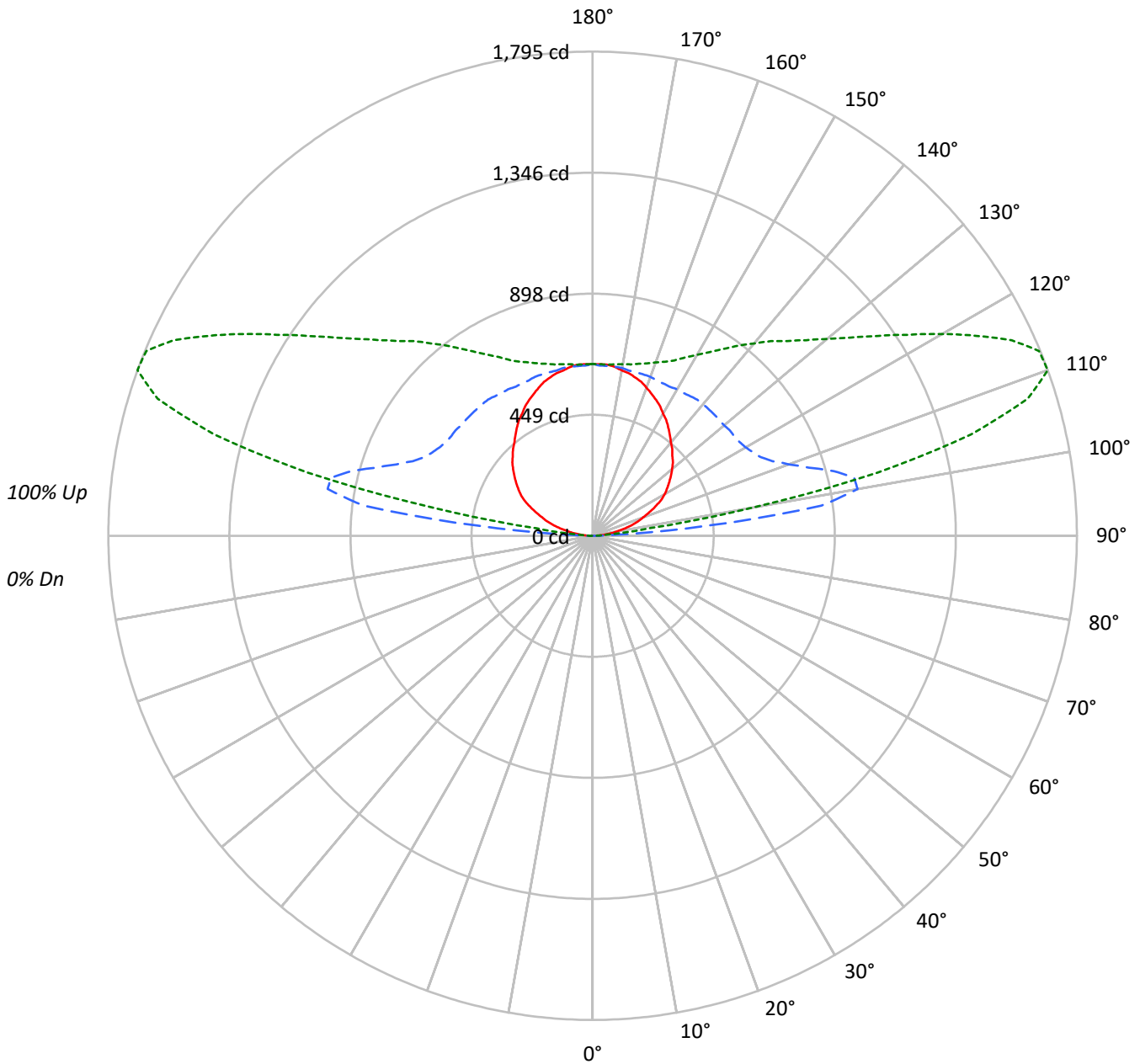
Lumens per Lamp: N/A  
Luminaire Lumens: 4126.6 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 34  
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: P844802

CATALOG NUMBER: SQ4P-125U-0D-B35-1D-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	0
RCR																		
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

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

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P844802

CATALOG NUMBER: SQ4P-125U-0D-B35-1D-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	1.6	0.0
90°-100°	250.9	6.1
100°-110°	881.2	21.4
110°-120°	853.0	20.7
120°-130°	666.7	16.2
130°-140°	530.0	12.8
140°-150°	409.3	9.9
150°-160°	293.8	7.1
160°-170°	179.5	4.3
170°-180°	60.8	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.6	0.0
90°-120°	1985.1	48.1
90°-150°	3591.0	87.0
90°-180°	4125.0	100.0
0°-180°	4126.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
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°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	9.5	9.5	14.3	14.3	19.0	19.0	14.3	14.3	9.5	9.5	9.5
92.5°	23.8	38.0	61.7	71.2	99.7	85.5	66.4	42.8	33.3	28.5	28.5
95°	42.8	57.0	118.7	147.3	280.3	441.7	427.4	356.2	156.8	109.2	99.7
97.5°	66.4	76.0	133.0	166.3	332.4	726.7	854.9	854.9	588.9	389.5	327.7
100°	90.2	99.7	147.3	175.8	322.9	760.0	997.4	1154.1	1111.4	935.6	850.2
102.5°	118.7	133.0	166.3	189.9	313.4	721.9	992.7	1230.2	1386.8	1315.6	1277.6
105°	147.3	166.3	189.9	209.0	313.4	660.1	926.1	1196.9	1529.3	1562.6	1557.9



TEST NUMBER: P844802

CATALOG NUMBER: SQ4P-125U-0D-B35-1D-UNV

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	228.0	247.0	270.8	280.3	351.5	555.7	721.9	926.1	1339.4	1572.1	1619.6
115°	256.5	270.8	303.9	308.7	365.7	546.2	688.7	854.9	1225.4	1453.4	1515.1
117.5°	285.0	289.8	337.2	342.0	384.7	546.2	669.6	812.2	1130.3	1344.2	1401.1
120°	308.7	313.4	370.5	370.5	403.8	550.9	655.4	778.9	1049.6	1239.6	1296.6
122.5°	327.7	332.4	399.0	399.0	427.4	550.9	646.0	760.0	992.7	1154.1	1201.6
125°	346.7	351.5	417.9	427.4	446.4	560.4	641.2	741.0	945.2	1082.9	1120.8
127.5°	365.7	370.5	422.7	446.4	470.2	565.2	641.2	726.7	902.4	1030.6	1063.9
130°	384.7	389.5	432.2	455.9	494.0	569.9	636.5	712.4	874.0	978.4	1011.6
132.5°	403.8	408.5	441.7	460.7	508.2	579.4	636.5	702.9	845.4	940.4	968.9
135°	417.9	427.4	455.9	470.2	522.5	584.2	636.5	688.7	816.9	902.4	926.1
137.5°	436.9	446.4	470.2	479.7	527.2	593.7	636.5	683.9	793.1	869.2	892.9
140°	451.2	460.7	484.5	494.0	536.6	598.4	636.5	679.2	769.4	835.9	854.9
142.5°	470.2	479.7	498.7	508.2	541.4	603.2	636.5	674.4	750.5	802.6	821.7
145°	489.2	494.0	513.0	522.5	550.9	603.2	631.7	664.9	731.4	778.9	788.4
147.5°	508.2	513.0	531.9	536.6	565.2	603.2	627.0	660.1	712.4	755.2	764.7
150°	522.5	531.9	546.2	550.9	574.7	608.0	627.0	650.6	698.2	731.4	741.0
152.5°	541.4	546.2	555.7	565.2	584.2	608.0	622.2	646.0	683.9	707.7	717.2
155°	555.7	560.4	569.9	574.7	593.7	612.7	622.2	641.2	669.6	693.4	698.2
157.5°	569.9	574.7	584.2	588.9	598.4	617.5	622.2	641.2	664.9	679.2	683.9
160°	584.2	588.9	593.7	598.4	608.0	617.5	627.0	636.5	655.4	669.6	674.4
162.5°	598.4	598.4	603.2	608.0	617.5	622.2	627.0	636.5	650.6	660.1	664.9
165°	608.0	608.0	612.7	612.7	622.2	622.2	627.0	636.5	646.0	655.4	655.4
167.5°	617.5	617.5	622.2	622.2	627.0	627.0	627.0	636.5	641.2	650.6	650.6
170°	622.2	627.0	627.0	627.0	631.7	631.7	631.7	636.5	641.2	646.0	646.0
172.5°	631.7	631.7	631.7	631.7	636.5	631.7	631.7	636.5	641.2	641.2	641.2
175°	636.5	636.5	636.5	636.5	636.5	631.7	631.7	636.5	636.5	641.2	641.2
177.5°	636.5	636.5	636.5	636.5	641.2	631.7	631.7	636.5	636.5	641.2	641.2
180°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5



TEST NUMBER: P844802

CATALOG NUMBER: SQ4P-125U-0D-B35-1D-UNV

**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	0.0	0.0
2.5°	0.0	0.0
5°	0.0	0.0
7.5°	0.0	0.0
10°	0.0	0.0
12.5°	0.0	0.0
15°	0.0	0.0
17.5°	0.0	0.0
20°	0.0	0.0
22.5°	0.0	0.0
25°	0.0	0.0
27.5°	0.0	0.0
30°	0.0	0.0
32.5°	0.0	0.0
35°	0.0	0.0
37.5°	0.0	0.0
40°	0.0	0.0
42.5°	0.0	0.0
45°	0.0	0.0
47.5°	0.0	0.0
50°	0.0	0.0
52.5°	0.0	0.0
55°	0.0	0.0
57.5°	0.0	0.0
60°	0.0	0.0
62.5°	0.0	0.0
65°	0.0	0.0
67.5°	0.0	0.0
70°	0.0	0.0
72.5°	0.0	0.0
75°	0.0	0.0
77.5°	0.0	0.0
80°	0.0	0.0
82.5°	0.0	0.0
85°	0.0	0.0
87.5°	0.0	0.0
90°	4.8	4.8
92.5°	23.8	23.8
95°	71.2	66.4
97.5°	237.5	209.0
100°	660.1	603.2
102.5°	1125.6	1082.9
105°	1472.4	1453.4





TEST NUMBER: P844802

CATALOG NUMBER: SQ4P-125U-0D-B35-1D-UNV

**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	1752.6	1790.6
115°	1671.8	1714.5
117.5°	1553.1	1605.3
120°	1448.6	1496.1
122.5°	1344.2	1386.8
125°	1249.1	1291.9
127.5°	1168.4	1206.4
130°	1101.9	1135.1
132.5°	1049.6	1073.4
135°	997.4	1021.1
137.5°	954.7	978.4
140°	911.9	930.9
142.5°	869.2	888.1
145°	831.2	845.4
147.5°	797.9	807.4
150°	764.7	774.1
152.5°	741.0	745.7
155°	717.2	717.2
157.5°	698.2	698.2
160°	679.2	683.9
162.5°	669.6	669.6
165°	660.1	660.1
167.5°	650.6	650.6
170°	646.0	646.0
172.5°	646.0	641.2
175°	641.2	636.5
177.5°	641.2	636.5
180°	636.5	636.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	175.8	194.7	213.7	232.7	318.2	608.0	840.7	1106.7	1529.3	1671.8	1686.1
110°	199.4	223.2	242.2	256.5	332.4	574.7	774.1	1011.6	1448.6	1657.6	1695.6







107.5°	1700.4	1690.9
110°	1776.3	1795.3



(END OF REPORT)