

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: P845378

Luminaire Tested: **SQ4P-WB-125U-100D-B35-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845378  
REPORT IS A COMBINATION OF REPORTS P700129 AND P700247  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-WB-125U-100D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT  
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

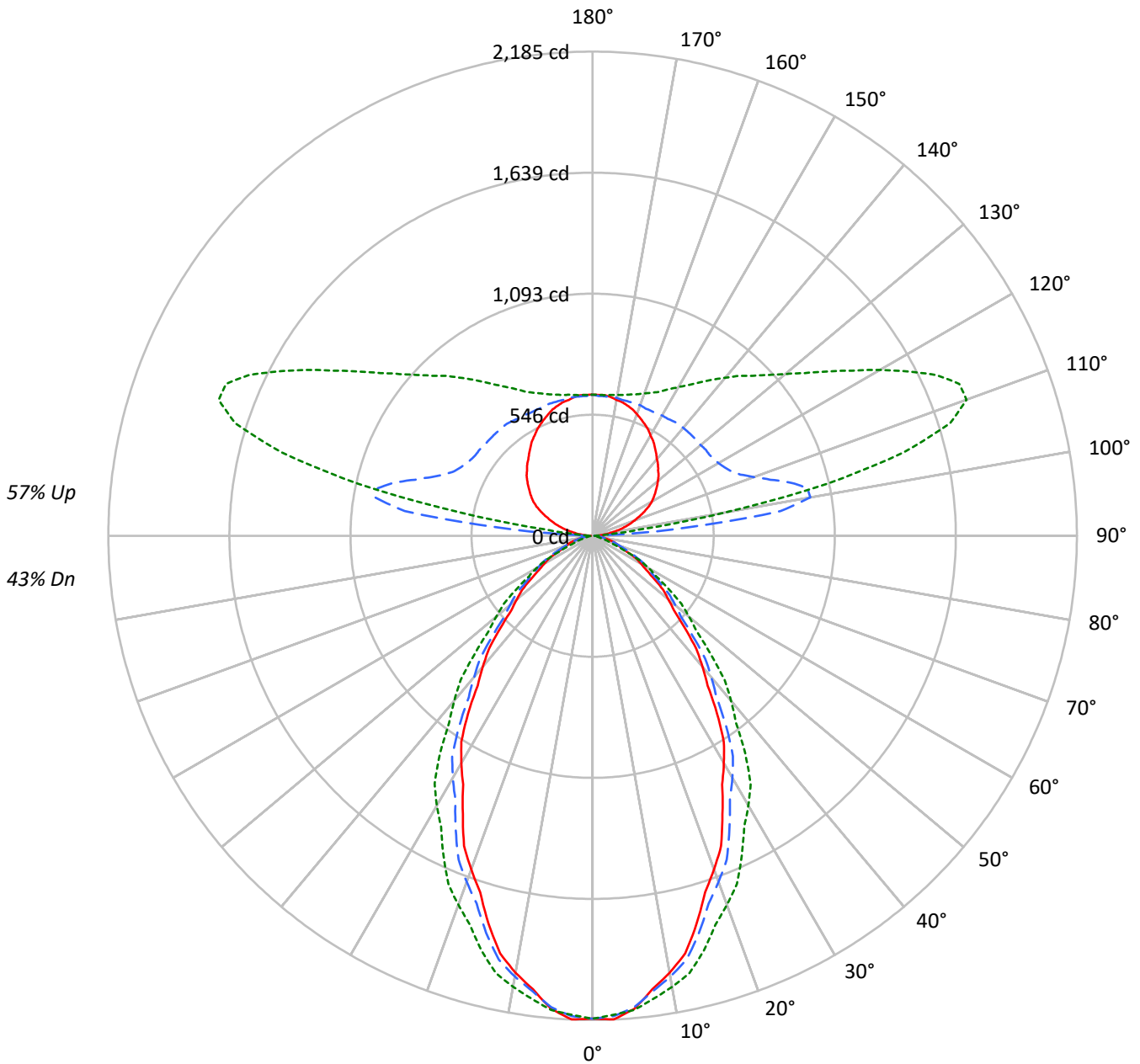
Lumens per Lamp: N/A  
Luminaire Lumens: 7307.4 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 68.9  
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									
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43																			
1	97	93	90	87	89	86	83	80	71	69	67	58	57	55	46	45	44	39																			
2	89	83	77	73	82	76	71	67	64	60	57	52	50	48	42	40	39	34																			
3	82	74	67	62	75	68	62	58	57	53	50	47	44	42	38	36	34	30																			
4	76	66	59	53	69	61	55	50	51	47	43	43	39	37	35	32	30	27																			
5	70	59	52	46	64	55	48	43	47	42	38	39	35	33	32	29	27	24																			
6	65	54	46	41	59	50	43	38	42	37	34	36	32	29	29	27	25	22																			
7	60	49	41	36	55	45	39	34	39	34	30	33	29	26	27	24	22	20																			
8	56	45	37	32	51	41	35	31	36	31	27	30	26	24	25	22	20	18																			
9	52	41	34	29	48	38	32	28	33	28	25	28	24	22	23	21	19	17																			
10	49	38	31	26	45	35	29	25	30	26	22	26	22	20	22	19	17	15																			

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

	0°	45°	90°
0°	20106	20106	20106
5°	19855	19783	19899
10°	18758	18928	19367
15°	17316	17719	18513
20°	15725	16316	17396
25°	14105	14874	16208
30°	12613	13435	14973
35°	11028	11824	13517
40°	9281	10019	11701
45°	7659	8321	9769
50°	6393	6973	8137
55°	5429	5982	6719
60°	4641	5187	5364
65°	3696	4362	3462
70°	3275	3404	2115
75°	3030	2763	1298
80°	2795	2545	1116
85°	2519	2339	910



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.9	2.7
10°-20°	519.9	7.1
20°-30°	673.4	9.2
30°-40°	659.4	9.0
40°-50°	504.8	6.9
50°-60°	336.3	4.6
60°-70°	183.5	2.5
70°-80°	76.5	1.0
80°-90°	23.2	0.3
90°-100°	253.3	3.5
100°-110°	881.3	12.1
110°-120°	853.7	11.7
120°-130°	669.7	9.2
130°-140°	530.1	7.3
140°-150°	409.1	5.6
150°-160°	293.2	4.0
160°-170°	179.4	2.5
170°-180°	60.7	0.8
0°-30°	1393.2	19.1
0°-40°	2052.6	28.1
0°-60°	2893.7	39.6
0°-90°	3177.0	43.5
90°-120°	1988.3	27.2
90°-150°	3597.1	49.2
90°-180°	4130.0	56.5
0°-180°	7307.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2179	2179	2179	2179	2179	
5°	2144	2122	2136	2141	2149	199
15°	1813	1806	1855	1906	1938	506
25°	1386	1389	1461	1525	1592	637
35°	979	984	1050	1121	1200	609
45°	587	598	638	686	749	458
55°	338	352	372	386	418	306
65°	169	183	200	175	159	176
75°	85	85	78	53	36	91
85°	24	24	22	14	9	26
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°	2179.2	2179.2	2179.2	2179.2	2179.2
2.5°	2184.6	2165.1	2170.1	2169.9	2163.8
5°	2143.8	2122.2	2136.1	2141.0	2148.6
7.5°	2064.2	2047.9	2073.3	2091.9	2107.0
10°	2002.2	1988.3	2020.4	2047.7	2067.2
12.5°	1930.4	1918.5	1958.6	1994.9	2020.7
15°	1812.9	1806.4	1855.1	1905.6	1938.2
17.5°	1687.3	1684.1	1739.9	1798.8	1840.6
20°	1601.6	1600.7	1661.8	1723.3	1771.8
22.5°	1515.2	1517.2	1581.5	1645.4	1700.7
25°	1385.6	1389.3	1461.1	1524.8	1592.1
27.5°	1265.7	1267.4	1341.4	1408.7	1480.6
30°	1183.9	1188.4	1261.1	1330.8	1405.5
32.5°	1102.1	1107.4	1178.7	1250.5	1326.7
35°	979.1	983.9	1049.8	1120.7	1200.1
37.5°	852.4	858.9	917.6	984.2	1062.6
40°	770.6	780.1	831.9	894.9	971.5
42.5°	691.8	703.5	751.5	811.3	880.3
45°	587.0	598.3	637.7	686.0	748.7
47.5°	496.8	509.7	540.1	581.7	635.1
50°	445.4	457.8	485.8	516.5	566.9
52.5°	400.4	412.6	437.5	461.3	504.4
55°	337.5	351.5	371.9	386.1	417.7
57.5°	285.9	299.3	315.6	321.9	341.1
60°	251.5	266.5	281.1	280.4	290.7
62.5°	220.2	232.9	247.4	237.2	237.9
65°	169.3	183.4	199.8	174.7	158.6
67.5°	136.8	139.6	156.8	121.8	102.8
70°	121.4	121.4	126.2	94.3	78.4
72.5°	107.0	107.0	102.7	76.6	60.0
75°	85.0	85.0	77.5	53.2	36.4
77.5°	65.6	65.0	59.3	39.6	26.4
80°	52.6	52.6	47.9	31.4	21.0
82.5°	41.1	41.1	37.0	24.5	15.6
85°	23.8	23.8	22.1	14.3	8.6
87.5°	8.4	8.4	7.5	4.5	3.9
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)