

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: P845382

Luminaire Tested: **SQ4P-WB-125U-125D-B40-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845382  
REPORT IS A COMBINATION OF REPORTS P700130 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-125D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT  
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

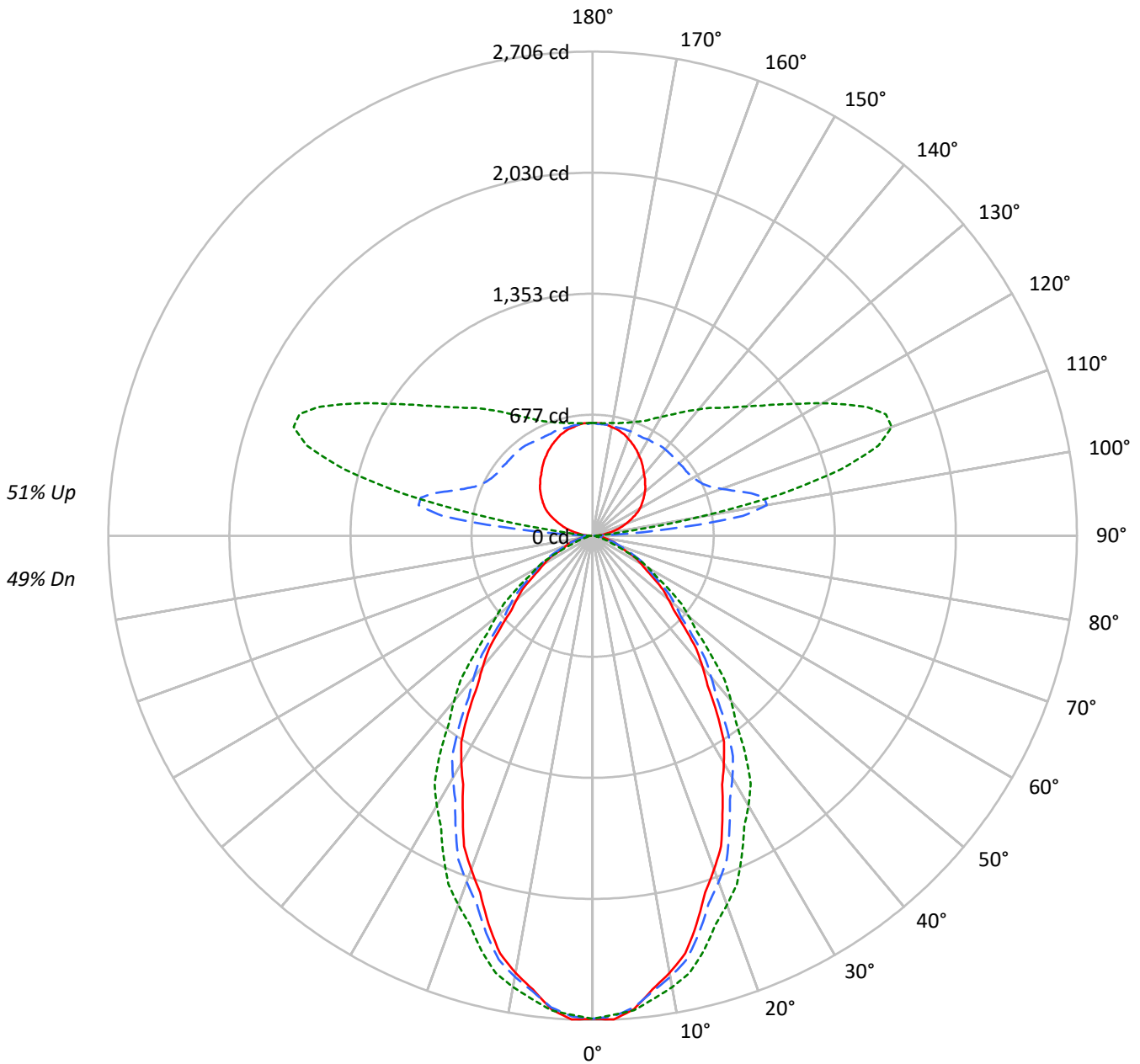
Lumens per Lamp: N/A  
Luminaire Lumens: 8025.2 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 79.8  
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									
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49																			
1	99	95	91	88	91	88	85	82	74	72	70	62	60	59	51	50	49	44																			
2	91	84	79	74	84	78	73	69	66	63	60	56	53	51	46	44	43	38																			
3	84	75	68	63	77	70	64	59	60	55	52	50	47	45	42	40	38	34																			
4	77	67	60	54	71	63	56	51	54	49	45	46	42	39	38	36	34	30																			
5	71	61	53	48	66	56	50	45	49	44	40	42	38	35	35	32	30	27																			
6	66	55	47	42	61	51	45	40	44	39	36	38	34	31	32	29	27	24																			
7	61	50	43	37	57	47	40	35	41	36	32	35	31	28	30	27	25	22																			
8	57	46	38	33	53	43	36	32	37	32	29	32	29	26	28	25	23	20																			
9	54	42	35	30	50	39	33	29	35	30	26	30	26	23	26	23	21	19																			
10	50	39	32	27	47	36	30	26	32	27	24	28	24	21	24	21	19	17																			

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

	0°	45°	90°
0°	24904	24904	24904
5°	24595	24505	24649
10°	23236	23448	23990
15°	21449	21949	22933
20°	19480	20211	21547
25°	17472	18425	20076
30°	15622	16642	18548
35°	13660	14648	16743
40°	11496	12410	14494
45°	9488	10306	12102
50°	7920	8636	10080
55°	6725	7411	8324
60°	5750	6427	6645
65°	4578	5403	4290
70°	4057	4216	2619
75°	3754	3422	1608
80°	3459	3145	1381
85°	3123	2890	1143



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.6	3.1
10°-20°	644.0	8.0
20°-30°	834.2	10.4
30°-40°	816.9	10.2
40°-50°	625.2	7.8
50°-60°	416.6	5.2
60°-70°	227.4	2.8
70°-80°	94.7	1.2
80°-90°	28.4	0.4
90°-100°	250.8	3.1
100°-110°	872.7	10.9
110°-120°	845.4	10.5
120°-130°	663.2	8.3
130°-140°	524.9	6.5
140°-150°	405.1	5.0
150°-160°	290.4	3.6
160°-170°	177.6	2.2
170°-180°	60.1	0.7
0°-30°	1725.8	21.5
0°-40°	2542.6	31.7
0°-60°	3584.5	44.7
0°-90°	3935.0	49.0
90°-120°	1969.0	24.5
90°-150°	3562.1	44.4
90°-180°	4090.0	51.0
0°-180°	8025.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2699	2699	2699	2699	2699	
5°	2656	2629	2646	2652	2662	247
15°	2246	2238	2298	2360	2401	627
25°	1716	1721	1810	1889	1972	789
35°	1213	1219	1300	1388	1486	754
45°	727	741	790	850	928	567
55°	418	436	461	478	518	379
65°	210	227	248	216	196	218
75°	105	105	96	66	45	113
85°	30	30	27	18	11	32
90°	9	14	14	9	5	7
95°	42	146	423	108	66	45
105°	146	207	917	1547	1439	153
115°	254	306	682	1439	1698	251
125°	343	423	635	1072	1279	307
135°	414	466	630	894	1011	321
145°	484	517	626	771	837	303
155°	550	569	616	687	710	254
165°	602	607	621	649	654	170
175°	630	630	626	635	630	60
180°	630	630	630	630	630	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2699.3	2699.3	2699.3	2699.3	2699.3
2.5°	2706.0	2681.9	2688.1	2687.8	2680.2
5°	2655.6	2628.8	2645.9	2652.1	2661.5
7.5°	2557.0	2536.8	2568.2	2591.3	2610.0
10°	2480.2	2462.8	2502.8	2536.5	2560.7
12.5°	2391.3	2376.4	2426.0	2471.1	2503.0
15°	2245.6	2237.6	2297.9	2360.3	2400.9
17.5°	2090.1	2086.1	2155.3	2228.2	2279.9
20°	1984.0	1982.9	2058.5	2134.7	2194.6
22.5°	1877.0	1879.3	1959.0	2038.1	2106.7
25°	1716.3	1720.9	1809.9	1888.7	1972.1
27.5°	1567.8	1569.9	1661.7	1745.0	1834.0
30°	1466.4	1472.1	1562.1	1648.5	1741.0
32.5°	1365.0	1371.8	1460.0	1549.0	1643.4
35°	1212.8	1218.7	1300.5	1388.1	1486.5
37.5°	1055.9	1063.9	1136.6	1219.2	1316.3
40°	954.5	966.3	1030.4	1108.5	1203.4
42.5°	856.9	871.5	931.0	1004.9	1090.5
45°	727.2	741.1	789.9	849.7	927.5
47.5°	615.4	631.4	669.0	720.5	786.7
50°	551.8	567.1	601.7	639.8	702.3
52.5°	496.1	511.1	541.9	571.4	624.8
55°	418.1	435.5	460.7	478.3	517.5
57.5°	354.2	370.9	390.9	398.7	422.6
60°	311.6	330.1	348.3	347.2	360.1
62.5°	272.7	288.5	306.5	293.9	294.7
65°	209.7	227.1	247.5	216.4	196.5
67.5°	169.5	173.0	194.1	151.0	127.3
70°	150.4	150.4	156.3	116.9	97.1
72.5°	132.5	132.5	127.1	94.9	74.2
75°	105.3	105.3	96.0	66.0	45.1
77.5°	81.2	80.4	73.5	49.0	32.8
80°	65.1	65.1	59.2	38.9	26.0
82.5°	51.0	51.0	45.8	30.3	19.3
85°	29.5	29.5	27.3	17.7	10.8
87.5°	10.5	10.5	9.4	5.6	4.8
90°	9.4	14.1	14.1	9.4	4.7
92.5°	23.5	70.5	65.8	28.2	23.5
95°	42.3	145.8	423.3	108.1	65.8
97.5°	65.8	164.6	846.6	385.7	207.0
100°	89.3	174.0	987.7	926.5	597.3
102.5°	117.5	188.1	983.0	1302.8	1072.4
105°	145.8	207.0	917.1	1547.4	1439.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	225.8	277.5	714.9	1556.8	1773.2
115°	254.0	305.7	682.0	1439.3	1697.9
117.5°	282.2	338.7	663.1	1331.1	1589.7
120°	305.7	366.9	649.1	1227.6	1481.6
122.5°	324.5	395.1	639.7	1142.9	1373.4
125°	343.3	423.3	634.9	1072.4	1279.4
127.5°	362.1	442.1	634.9	1020.6	1194.7
130°	380.9	451.5	630.3	968.9	1124.1
132.5°	399.8	456.2	630.3	931.3	1063.0
135°	413.9	465.6	630.3	893.7	1011.2
137.5°	432.7	475.0	630.3	860.7	968.9
140°	446.8	489.2	630.3	827.8	921.9
142.5°	465.6	503.2	630.3	794.8	879.5
145°	484.4	517.4	625.5	771.4	837.2
147.5°	503.2	531.4	620.9	747.8	799.6
150°	517.4	545.6	620.9	724.3	766.6
152.5°	536.2	559.7	616.1	700.8	738.4
155°	550.3	569.1	616.1	686.7	710.2
157.5°	564.4	583.2	616.1	672.6	691.4
160°	578.5	592.6	620.9	663.1	677.3
162.5°	592.6	602.1	620.9	653.7	663.1
165°	602.1	606.7	620.9	649.1	653.7
167.5°	611.5	616.1	620.9	644.3	644.3
170°	616.1	620.9	625.5	639.7	639.7
172.5°	625.5	625.5	625.5	634.9	634.9
175°	630.3	630.3	625.5	634.9	630.3
177.5°	630.3	630.3	625.5	634.9	630.3
180°	630.3	630.3	630.3	630.3	630.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	174.0	230.4	832.5	1655.5	1674.4
110°	197.5	254.0	766.6	1641.5	1777.8



(END OF REPORT)