

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P519513

Luminaire Tested: **SQ4-WB-125U-100D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519513  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-125U-100D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

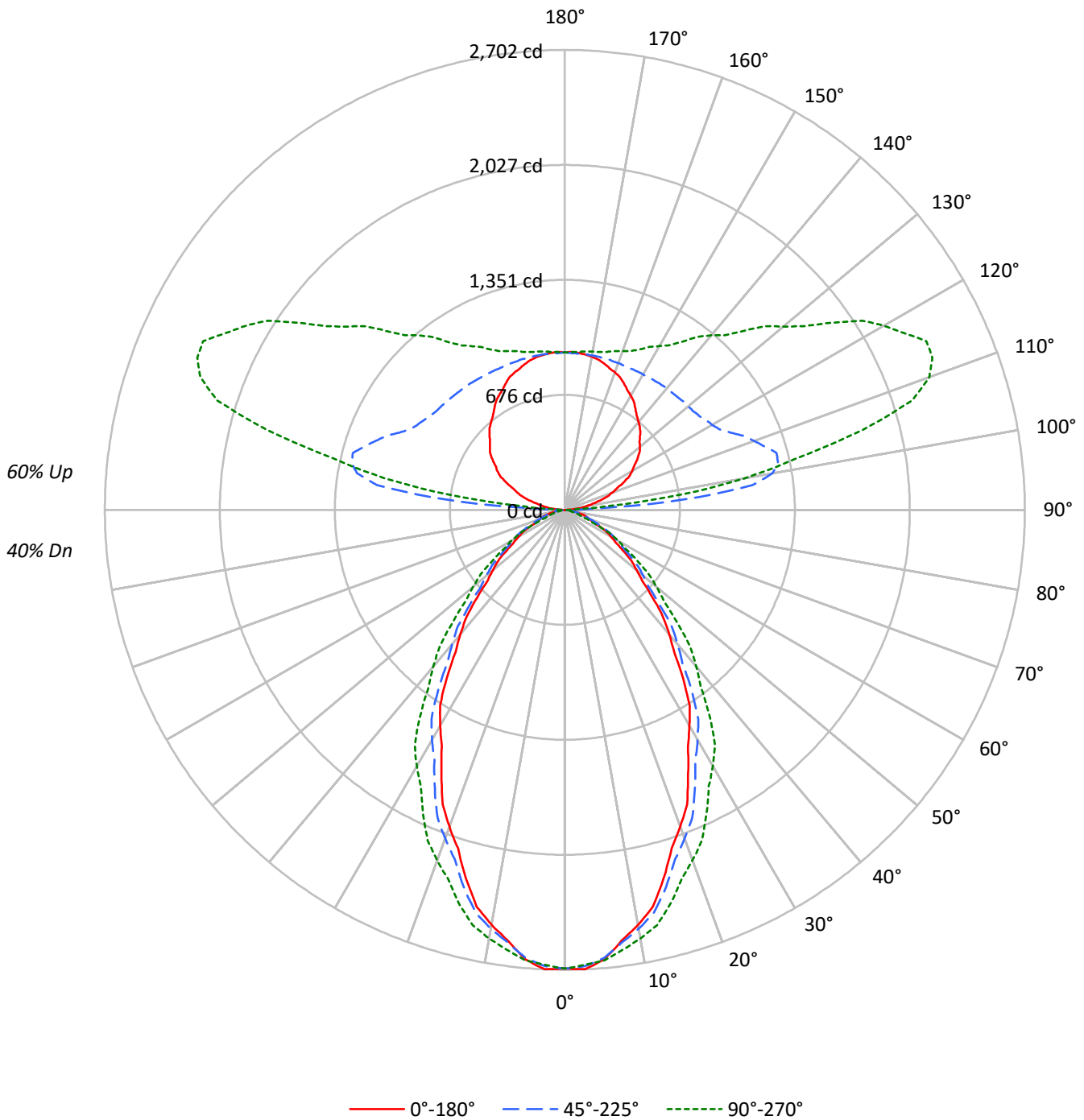
Lumens per Lamp: N/A  
Luminaire Lumens: 9897.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 102.8  
Input Voltage (V): 120  
Input Current (Ain): 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: 24 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	0
RCR																		
0	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	92	89	86	88	84	81	79	69	67	65	55	54	53	43	42	41	35
2	88	82	76	72	80	75	70	66	62	59	56	50	48	46	39	37	36	31
3	81	73	66	61	74	67	61	56	55	51	48	45	42	40	35	33	32	27
4	75	65	58	52	68	60	54	49	50	45	42	41	37	35	32	30	28	24
5	69	58	51	45	63	54	47	42	45	40	37	37	34	31	29	27	25	22
6	64	53	45	40	58	49	42	37	41	36	32	34	30	28	27	25	23	20
7	59	48	40	35	54	44	38	33	37	33	29	31	27	25	25	23	21	18
8	55	44	36	32	50	40	34	30	34	29	26	29	25	22	23	21	19	16
9	52	40	33	28	47	37	31	27	32	27	24	26	23	20	22	19	17	15
10	48	37	30	26	44	34	28	24	29	25	21	25	21	19	20	18	16	14

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

	0°	45°	90°
0°	16578	16578	16578
5°	16371	16313	16408
10°	15467	15608	15970
15°	14278	14610	15265
20°	12967	13454	14345
25°	11630	12264	13364
30°	10399	11079	12347
35°	9093	9751	11144
40°	7654	8261	9648
45°	6317	6861	8055
50°	5273	5749	6711
55°	4477	4934	5542
60°	3826	4277	4422
65°	3046	3598	2857
70°	2701	2807	1744
75°	2502	2277	1067
80°	2302	2093	921
85°	2089	1920	748



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.2	2.5
10°-20°	643.0	6.5
20°-30°	832.9	8.4
30°-40°	815.6	8.2
40°-50°	624.3	6.3
50°-60°	416.0	4.2
60°-70°	227.0	2.3
70°-80°	94.6	1.0
80°-90°	29.0	0.3
90°-100°	432.4	4.4
100°-110°	1164.8	11.8
110°-120°	1222.5	12.4
120°-130°	992.0	10.0
130°-140°	778.0	7.9
140°-150°	597.3	6.0
150°-160°	429.5	4.3
160°-170°	262.4	2.7
170°-180°	88.5	0.9
0°-30°	1723.2	17.4
0°-40°	2538.8	25.7
0°-60°	3579.1	36.2
0°-90°	3929.7	39.7
90°-120°	2819.7	28.5
90°-150°	5187.0	52.4
90°-180°	5967.0	60.3
0°-180°	9897.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2695	2695	2695	2695	2695	
5°	2652	2625	2642	2648	2657	247
15°	2242	2234	2294	2357	2397	626
25°	1714	1718	1807	1886	1969	788
35°	1211	1217	1299	1386	1484	753
45°	726	740	789	848	926	566
55°	418	435	460	478	517	379
65°	209	227	247	216	196	218
75°	105	105	96	66	45	112
85°	30	30	27	18	11	32
90°	2	7	14	15	15	6
95°	66	235	709	362	251	69
105°	216	335	1288	1927	1809	227
115°	380	466	1073	2073	2344	374
125°	519	596	963	1628	1916	464
135°	625	698	936	1313	1487	483
145°	723	779	924	1123	1206	453
155°	821	851	916	1008	1040	378
165°	890	901	920	956	961	251
175°	926	924	921	934	931	88
180°	924	924	924	924	924	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2695.3	2695.3	2695.3	2695.3	2695.3
2.5°	2701.9	2677.9	2683.9	2683.8	2676.4
5°	2651.5	2624.9	2642.1	2648.2	2657.4
7.5°	2553.1	2533.0	2564.2	2587.4	2606.1
10°	2476.5	2459.1	2499.0	2532.6	2556.9
12.5°	2387.6	2373.0	2422.3	2467.5	2499.2
15°	2242.3	2234.2	2294.4	2356.8	2397.2
17.5°	2086.9	2083.0	2152.0	2224.8	2276.6
20°	1981.0	1979.8	2055.5	2131.3	2191.5
22.5°	1874.0	1876.6	1956.1	2035.0	2103.5
25°	1713.7	1718.3	1807.1	1885.9	1969.1
27.5°	1565.4	1567.4	1659.3	1742.4	1831.2
30°	1464.1	1469.9	1559.9	1646.0	1738.5
32.5°	1362.9	1369.6	1457.7	1546.7	1641.1
35°	1211.0	1216.8	1298.6	1385.9	1484.2
37.5°	1054.5	1062.3	1134.9	1217.5	1314.2
40°	953.2	964.8	1028.9	1106.8	1201.6
42.5°	855.8	870.1	929.6	1003.4	1089.0
45°	726.2	740.0	788.8	848.5	926.0
47.5°	614.5	630.5	668.0	719.4	785.5
50°	551.1	566.2	600.8	638.9	701.3
52.5°	495.3	510.3	541.2	570.5	623.7
55°	417.5	434.8	460.1	477.5	516.8
57.5°	353.6	370.3	390.3	398.2	422.0
60°	311.0	329.5	347.7	346.8	359.5
62.5°	272.2	288.0	306.1	293.6	294.2
65°	209.3	226.7	247.2	216.0	196.3
67.5°	169.1	172.8	194.0	150.6	127.3
70°	150.2	150.2	156.1	116.6	97.0
72.5°	132.2	132.2	126.8	94.9	74.3
75°	105.3	105.3	95.8	65.8	44.9
77.5°	81.1	80.2	73.3	49.1	32.6
80°	65.0	65.0	59.1	38.7	26.0
82.5°	50.9	50.9	45.9	30.3	19.4
85°	29.6	29.6	27.2	17.6	10.6
87.5°	10.9	11.8	12.3	8.7	7.8
90°	2.4	7.0	14.1	15.3	15.3
92.5°	28.7	101.5	200.7	96.6	67.1
95°	65.9	235.2	708.9	362.5	250.8
97.5°	105.3	269.2	1111.8	928.8	700.4
100°	135.4	282.8	1240.0	1297.3	1076.3
102.5°	164.6	301.9	1282.3	1573.3	1391.9
105°	215.5	335.2	1288.2	1927.3	1808.7
107.5°	263.5	370.4	1233.4	2109.2	2139.8
110°	295.6	396.9	1183.4	2165.7	2277.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	423.4	1135.4	2153.2	2336.7
115°	380.3	465.5	1072.7	2072.8	2344.5
117.5°	426.7	506.6	1024.2	1944.4	2247.0
120°	456.9	534.0	999.7	1852.3	2163.1
122.5°	483.3	559.5	981.8	1758.0	2068.0
125°	519.3	596.4	963.2	1628.0	1915.9
127.5°	553.9	629.9	951.5	1513.3	1770.3
130°	574.6	650.6	946.7	1447.6	1673.3
132.5°	595.4	670.4	942.0	1389.7	1597.0
135°	625.3	697.8	936.1	1313.4	1487.2
137.5°	653.8	723.3	933.1	1248.6	1391.4
140°	673.6	740.3	930.3	1208.7	1337.7
142.5°	694.3	756.5	928.4	1171.5	1280.2
145°	723.0	779.4	924.4	1122.9	1205.8
147.5°	754.1	803.1	920.4	1082.0	1147.2
150°	774.8	817.4	918.5	1056.3	1110.4
152.5°	793.7	830.7	917.5	1035.4	1079.3
155°	820.7	850.7	916.1	1007.5	1039.8
157.5°	844.5	867.8	916.4	988.0	1009.6
160°	859.6	879.2	917.3	976.5	992.7
162.5°	872.8	888.7	918.2	967.0	978.5
165°	890.2	900.6	919.7	956.3	960.9
167.5°	904.4	910.3	920.8	948.0	949.8
170°	913.8	916.1	920.8	943.2	943.2
172.5°	919.4	919.9	921.8	938.5	938.5
175°	925.5	924.4	920.8	933.7	931.4
177.5°	928.1	926.3	921.5	929.0	927.2
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)