

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: P519483

Luminaire Tested: **SQ4-WB-125U-075D-840-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519483  
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-075D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

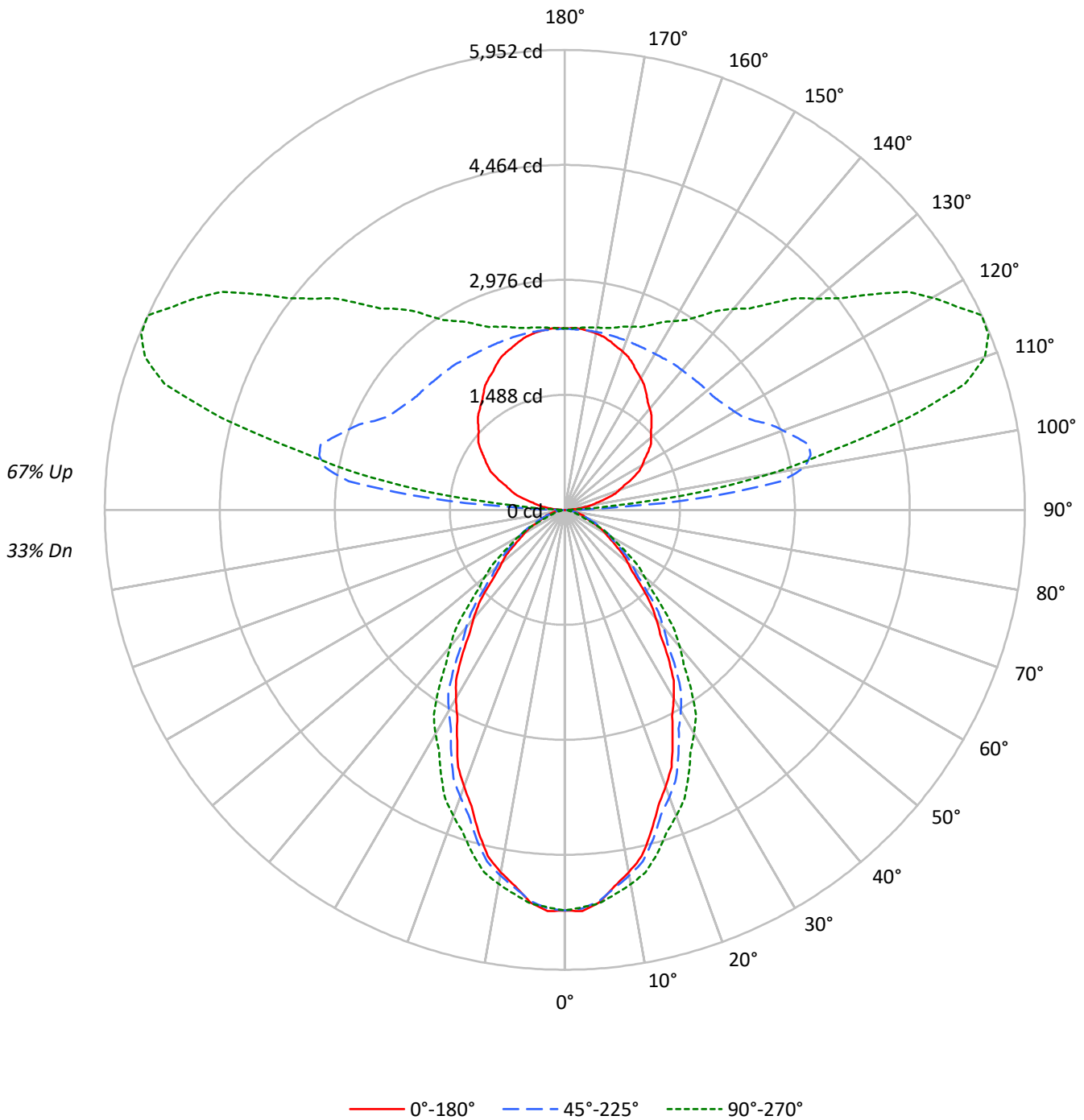
Lumens per Lamp: N/A  
Luminaire Lumens: 22709.9 lumens  
Efficiency: N/A  
Efficacy: 131.7 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 172.4  
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	50	30	10	0	
RCR																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33				
1	95	91	87	84	85	82	79	77	66	64	62	51	50	49	37	36	36	30				
2	87	80	75	70	78	73	68	64	59	55	53	46	44	42	34	32	31	26				
3	80	71	65	59	72	65	59	54	52	48	45	41	38	36	31	29	28	23				
4	73	63	56	51	66	58	52	47	47	43	39	37	34	32	28	26	25	21				
5	68	57	49	44	61	52	45	41	42	38	34	34	31	28	26	24	22	18				
6	62	51	44	38	56	47	40	36	39	34	30	31	27	25	23	21	20	17				
7	58	46	39	34	52	43	36	32	35	30	27	28	25	22	22	19	18	15				
8	54	42	35	30	49	39	33	28	32	27	24	26	23	20	20	18	16	14				
9	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	13				
10	47	36	29	24	43	33	27	23	27	23	20	22	19	17	17	15	14	12				

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

	0°	45°	90°
0°	15946	15946	15946
5°	15747	15691	15782
10°	14878	15012	15361
15°	13734	14053	14683
20°	12472	12941	13797
25°	11187	11797	12854
30°	10002	10657	11877
35°	8747	9379	10720
40°	7362	7947	9280
45°	6076	6600	7748
50°	5072	5530	6455
55°	4306	4745	5331
60°	3681	4114	4254
65°	2930	3460	2749
70°	2598	2700	1678
75°	2406	2190	1028
80°	2216	2015	887
85°	2008	1845	723



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.6	2.1
10°-20°	1237.0	5.4
20°-30°	1602.3	7.1
30°-40°	1569.0	6.9
40°-50°	1201.0	5.3
50°-60°	800.3	3.5
60°-70°	436.7	1.9
70°-80°	182.0	0.8
80°-90°	57.0	0.3
90°-100°	1097.8	4.8
100°-110°	2957.1	13.0
110°-120°	3103.4	13.7
120°-130°	2518.3	11.1
130°-140°	1975.0	8.7
140°-150°	1516.3	6.7
150°-160°	1090.2	4.8
160°-170°	666.1	2.9
170°-180°	224.6	1.0
0°-30°	3314.9	14.6
0°-40°	4884.0	21.5
0°-60°	6885.3	30.3
0°-90°	7561.0	33.3
90°-120°	7158.3	31.5
90°-150°	13168.0	58.0
90°-180°	15149.0	66.7
0°-180°	22709.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5185	5185	5185	5185	5185	
5°	5101	5050	5083	5094	5112	475
15°	4314	4298	4414	4534	4612	1205
25°	3297	3306	3476	3628	3788	1516
35°	2330	2341	2498	2666	2855	1448
45°	1397	1424	1518	1632	1781	1089
55°	803	836	885	919	994	728
65°	403	436	476	416	378	419
75°	202	202	184	126	86	216
85°	57	57	52	34	20	62
90°	6	18	36	39	39	15
95°	167	597	1800	920	637	175
105°	547	851	3270	4893	4592	575
115°	966	1182	2723	5262	5952	950
125°	1318	1514	2445	4133	4864	1177
135°	1587	1772	2376	3334	3776	1225
145°	1836	1979	2347	2851	3061	1151
155°	2084	2160	2326	2558	2640	959
165°	2260	2286	2335	2428	2439	637
175°	2350	2347	2338	2370	2365	223
180°	2347	2347	2347	2347	2347	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5185.0	5185.0	5185.0	5185.0	5185.0
2.5°	5197.7	5151.5	5163.2	5162.8	5148.6
5°	5100.8	5049.7	5082.6	5094.4	5112.2
7.5°	4911.5	4872.8	4932.9	4977.4	5013.5
10°	4764.1	4730.7	4807.3	4872.1	4918.8
12.5°	4593.0	4565.0	4659.9	4746.8	4807.8
15°	4313.6	4298.1	4413.7	4533.8	4611.7
17.5°	4014.7	4007.1	4139.8	4279.9	4379.6
20°	3810.8	3808.6	3954.2	4100.1	4215.8
22.5°	3605.2	3610.1	3763.0	3914.8	4046.5
25°	3296.7	3305.5	3476.4	3627.9	3788.1
27.5°	3011.3	3015.4	3192.0	3352.0	3522.8
30°	2816.6	2827.7	3000.9	3166.5	3344.4
32.5°	2621.8	2634.8	2804.3	2975.4	3157.0
35°	2329.7	2340.8	2498.1	2666.2	2855.3
37.5°	2028.5	2043.6	2183.2	2342.1	2528.1
40°	1833.7	1856.0	1979.4	2129.1	2311.5
42.5°	1646.3	1673.9	1788.2	1930.3	2094.9
45°	1396.9	1423.6	1517.5	1632.4	1781.4
47.5°	1182.2	1212.9	1285.0	1383.9	1511.1
50°	1060.2	1089.1	1155.8	1229.0	1349.1
52.5°	952.8	981.7	1041.1	1097.6	1199.9
55°	803.1	836.5	885.0	918.6	994.2
57.5°	680.3	712.3	750.8	765.9	811.8
60°	598.4	633.9	668.9	667.2	691.6
62.5°	523.7	554.0	588.8	564.7	566.1
65°	402.7	436.1	475.5	415.5	377.7
67.5°	325.3	332.5	373.1	289.7	244.8
70°	288.9	288.9	300.3	224.4	186.6
72.5°	254.4	254.4	243.9	182.5	142.9
75°	202.5	202.5	184.3	126.5	86.5
77.5°	156.1	154.3	141.1	94.4	62.8
80°	125.1	125.1	113.8	74.5	50.1
82.5°	97.8	97.8	88.3	58.2	37.3
85°	56.9	56.9	52.3	33.8	20.5
87.5°	21.2	23.6	25.4	18.7	16.9
90°	6.0	17.7	35.9	38.9	38.9
92.5°	72.9	257.7	509.4	245.2	170.4
95°	167.4	597.1	1799.6	920.3	636.7
97.5°	267.2	683.5	2822.5	2358.0	1778.1
100°	343.8	717.9	3147.8	3293.5	2732.3
102.5°	417.9	766.3	3255.4	3994.1	3533.4
105°	547.0	851.0	3270.3	4892.7	4591.6
107.5°	669.0	940.3	3131.0	5354.5	5432.2
110°	750.3	1007.5	3004.3	5497.9	5781.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	836.4	1074.9	2882.3	5466.1	5932.0
115°	965.6	1181.9	2723.3	5262.0	5951.8
117.5°	1083.3	1286.2	2600.1	4936.1	5704.3
120°	1159.9	1355.7	2538.0	4702.2	5491.4
122.5°	1226.8	1420.3	2492.5	4463.0	5249.9
125°	1318.3	1514.1	2445.3	4132.9	4863.7
127.5°	1406.2	1599.1	2415.4	3841.8	4494.2
130°	1458.8	1651.7	2403.4	3675.0	4247.9
132.5°	1511.4	1702.0	2391.5	3528.0	4054.1
135°	1587.3	1771.5	2376.5	3334.2	3775.5
137.5°	1659.7	1836.2	2368.8	3169.8	3532.2
140°	1709.9	1879.4	2361.6	3068.5	3395.9
142.5°	1762.5	1920.4	2356.8	2974.1	3250.0
145°	1835.5	1978.7	2346.6	2850.6	3061.1
147.5°	1914.4	2038.9	2336.5	2746.8	2912.2
150°	1967.0	2075.1	2331.7	2681.6	2818.9
152.5°	2014.8	2108.9	2329.3	2628.4	2740.0
155°	2083.6	2159.6	2325.7	2557.7	2639.6
157.5°	2144.0	2203.0	2326.3	2508.1	2563.1
160°	2182.2	2231.9	2328.7	2479.1	2520.0
162.5°	2215.7	2256.0	2331.1	2454.9	2484.1
165°	2259.9	2286.2	2334.7	2427.6	2439.3
167.5°	2295.8	2311.0	2337.7	2406.5	2411.2
170°	2319.7	2325.6	2337.7	2394.5	2394.5
172.5°	2334.1	2335.2	2340.1	2382.5	2382.5
175°	2349.6	2346.7	2337.7	2370.4	2364.6
177.5°	2356.2	2351.5	2339.5	2358.5	2353.8
180°	2346.6	2346.6	2346.6	2346.6	2346.6

(END OF REPORT)