

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: P565033

Luminaire Tested: **SQ4-PW1-125U-075D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565033  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-125U-075D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
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: 23765.3 lumens  
Efficiency: N/A  
Efficacy: 137.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

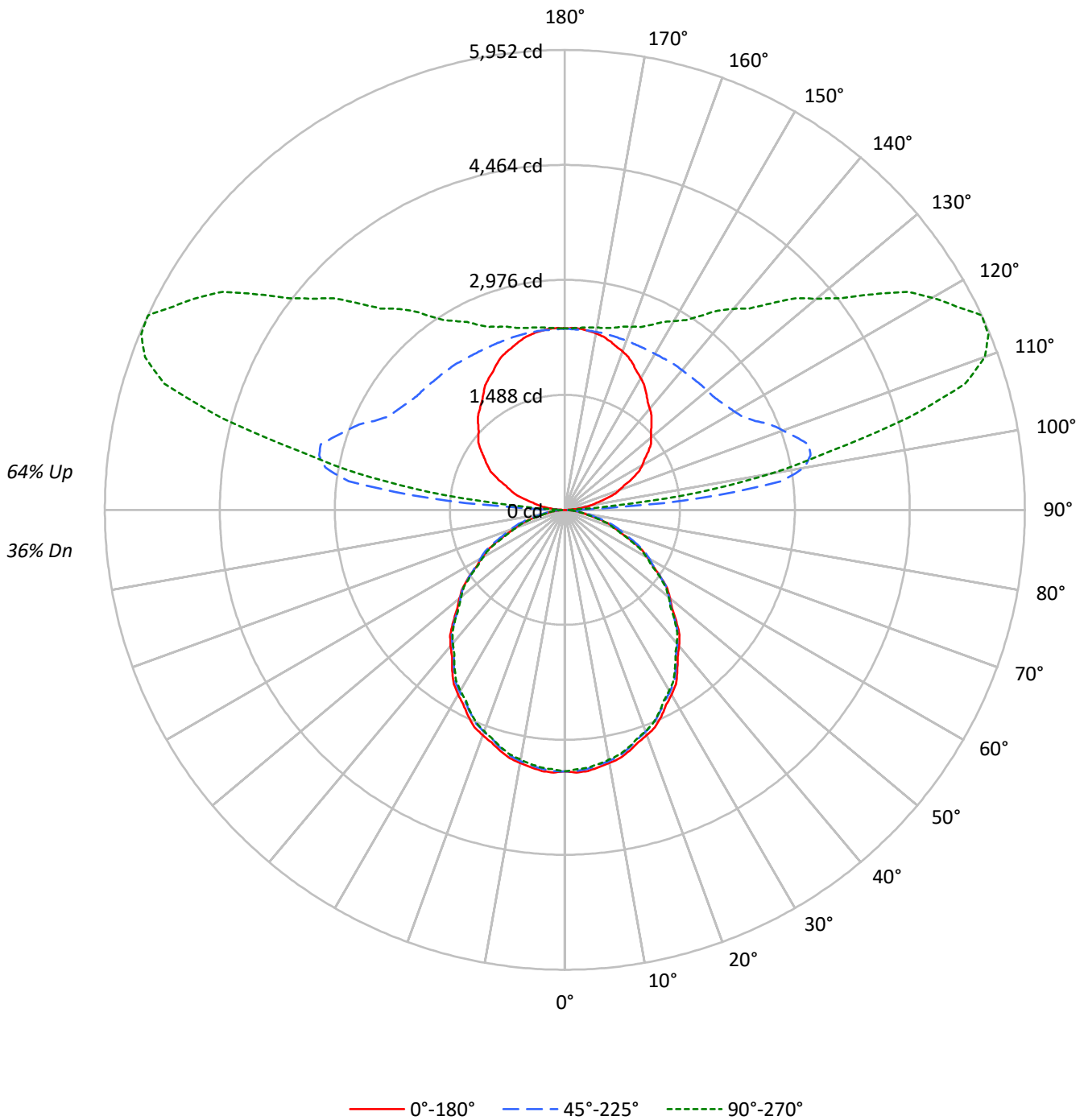
Input Watts (W): 172.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36				
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	31				
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	32	31	26				
3	79	70	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22				
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19				
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16				
6	61	49	41	35	55	45	38	33	37	31	28	29	25	23	22	19	18	14				
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	16	13				
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11				
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13	10				
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9				

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

	0°	45°	90°
0°	10409	10409	10409
5°	10476	10393	10347
10°	10392	10309	10253
15°	10282	10168	10130
20°	10159	10003	9984
25°	10017	9835	9805
30°	9805	9657	9594
35°	9527	9393	9337
40°	9230	9086	9050
45°	8871	8754	8715
50°	8503	8432	8375
55°	8106	8106	7978
60°	7612	7758	7483
65°	6966	7313	6792
70°	6141	6730	5980
75°	5244	6023	5102
80°	4066	5071	4119
85°	2629	3892	3472



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.7	1.3
10°-20°	899.8	3.8
20°-30°	1334.7	5.6
30°-40°	1561.7	6.6
40°-50°	1554.7	6.5
50°-60°	1342.6	5.6
60°-70°	966.4	4.1
70°-80°	506.8	2.1
80°-90°	131.1	0.6
90°-100°	1097.8	4.6
100°-110°	2957.1	12.4
110°-120°	3103.4	13.1
120°-130°	2518.3	10.6
130°-140°	1975.0	8.3
140°-150°	1516.3	6.4
150°-160°	1090.2	4.6
160°-170°	666.1	2.8
170°-180°	224.6	0.9
0°-30°	2553.1	10.7
0°-40°	4114.8	17.3
0°-60°	7012.1	29.5
0°-90°	8616.4	36.3
90°-120°	7158.3	30.1
90°-150°	13168.0	55.4
90°-180°	15149.0	63.7
0°-180°	23765.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3384	3384	3384	3384	3384	
5°	3393	3356	3367	3358	3352	321
15°	3229	3189	3194	3188	3182	910
25°	2952	2902	2898	2881	2890	1357
35°	2538	2503	2502	2478	2487	1586
45°	2040	2022	2013	2007	2004	1574
55°	1512	1509	1512	1491	1488	1349
65°	957	986	1005	965	933	949
75°	441	482	507	473	429	473
85°	74	98	110	104	98	98
90°	6	18	36	39	39	14
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°	3384.5	3384.5	3384.5	3384.5	3384.5
2.5°	3403.5	3375.5	3384.5	3376.9	3360.6
5°	3393.4	3355.5	3366.6	3357.5	3351.7
7.5°	3358.8	3323.8	3332.0	3322.3	3318.8
10°	3327.8	3292.8	3301.0	3288.9	3283.1
12.5°	3292.0	3254.7	3262.8	3250.8	3247.3
15°	3229.4	3188.6	3193.6	3187.5	3181.7
17.5°	3156.6	3115.2	3116.1	3106.5	3105.3
20°	3104.2	3060.4	3056.4	3044.6	3050.5
22.5°	3046.9	3000.8	2996.8	2980.3	2988.5
25°	2952.1	2902.5	2898.4	2880.7	2889.5
27.5°	2842.3	2793.4	2793.4	2768.6	2777.9
30°	2761.2	2714.6	2719.5	2689.9	2701.6
32.5°	2675.4	2633.4	2636.0	2606.4	2618.1
35°	2537.6	2502.6	2501.8	2478.2	2486.9
37.5°	2396.8	2365.9	2361.1	2347.4	2349.7
40°	2299.0	2272.8	2263.3	2254.3	2254.3
42.5°	2196.5	2172.6	2163.1	2156.5	2154.1
45°	2039.6	2022.1	2012.8	2006.7	2003.8
47.5°	1884.6	1868.2	1860.1	1855.9	1852.9
50°	1777.2	1765.5	1762.3	1753.3	1750.4
52.5°	1669.9	1662.9	1659.7	1648.3	1645.4
55°	1511.8	1508.9	1511.8	1490.9	1488.0
57.5°	1347.2	1351.9	1361.5	1333.3	1326.3
60°	1237.5	1249.1	1261.3	1228.3	1216.6
62.5°	1125.4	1144.0	1161.2	1123.2	1106.9
65°	957.2	986.3	1004.9	965.4	933.3
67.5°	795.0	831.1	853.4	810.9	774.7
70°	682.9	723.7	748.5	705.8	665.0
72.5°	585.0	630.5	650.6	610.4	569.5
75°	441.3	482.1	506.9	473.1	429.4
77.5°	313.1	351.6	372.1	342.7	306.5
80°	229.6	270.4	286.3	261.7	232.6
82.5°	162.8	196.6	207.5	192.8	172.9
85°	74.5	97.9	110.3	104.2	98.4
87.5°	20.3	38.9	52.5	53.2	55.5
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)