

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: P564357

Luminaire Tested: **SQ4-PR1-125U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564357  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-125U-075D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

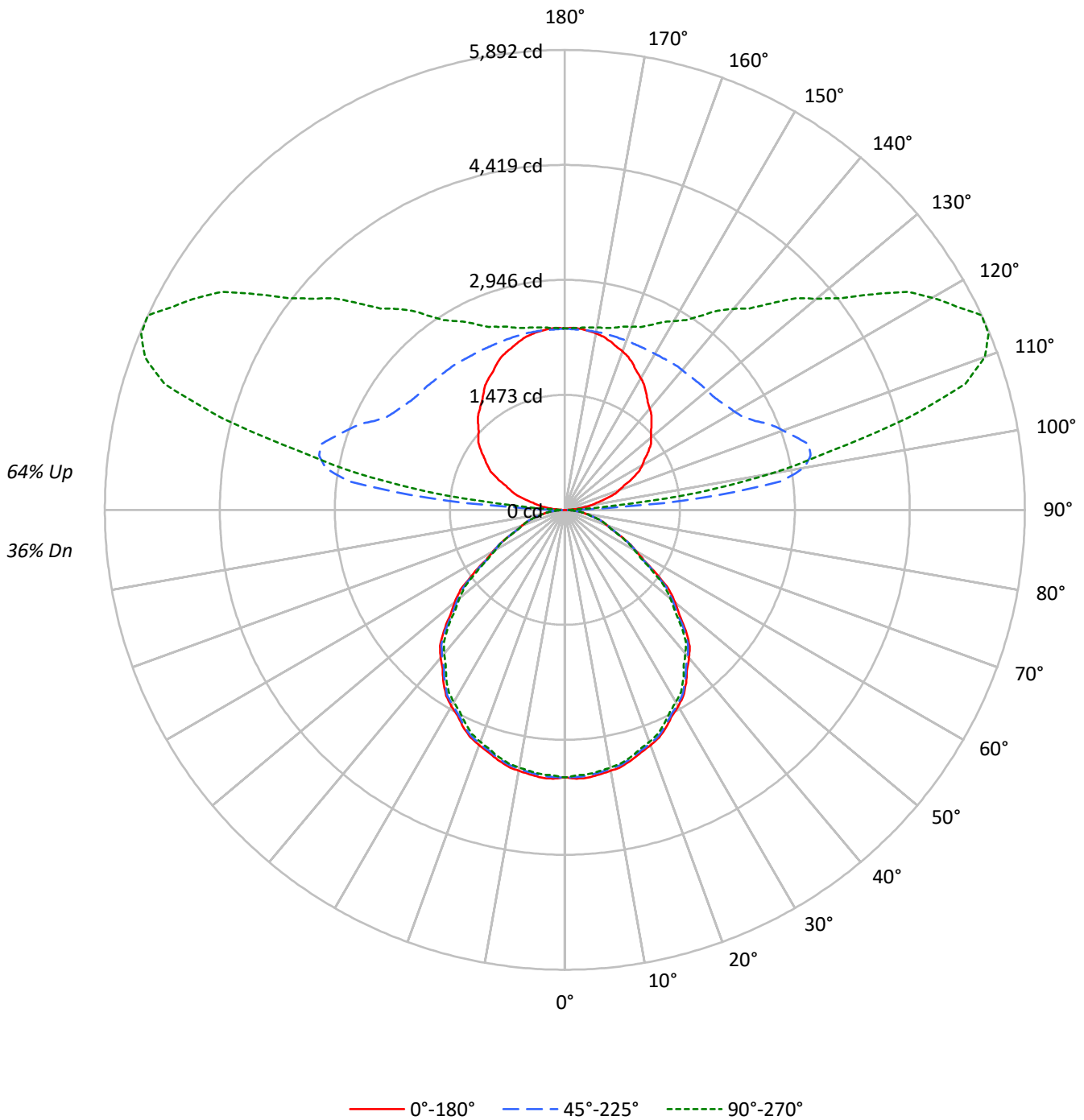
Lumens per Lamp: N/A  
Luminaire Lumens: 23571.8 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

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	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	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	57	71	64	58	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	49	65	56	50	45	46	41	38	36	33	30	28	25	24	19
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	22	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

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

	0°	45°	90°
0°	10541	10541	10541
5°	10636	10554	10499
10°	10602	10528	10473
15°	10556	10490	10433
20°	10502	10435	10357
25°	10428	10358	10238
30°	10316	10243	10096
35°	10163	10075	9931
40°	9932	9825	9648
45°	9527	9360	9168
50°	8814	8602	8433
55°	7693	7519	7361
60°	6482	6428	6301
65°	5607	5629	5586
70°	5150	5177	5177
75°	4947	4947	4981
80°	4653	4706	4653
85°	3751	4167	4167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.1	1.4
10°-20°	927.3	3.9
20°-30°	1398.7	5.9
30°-40°	1666.6	7.1
40°-50°	1643.1	7.0
50°-60°	1255.7	5.3
60°-70°	777.1	3.3
70°-80°	441.4	1.9
80°-90°	139.7	0.6
90°-100°	1086.8	4.6
100°-110°	2927.6	12.4
110°-120°	3072.5	13.0
120°-130°	2493.2	10.6
130°-140°	1955.4	8.3
140°-150°	1501.2	6.4
150°-160°	1079.4	4.6
160°-170°	659.4	2.8
170°-180°	222.4	0.9
0°-30°	2650.2	11.2
0°-40°	4316.8	18.3
0°-60°	7215.6	30.6
0°-90°	8573.8	36.4
90°-120°	7086.9	30.1
90°-150°	13036.8	55.3
90°-180°	14998.0	63.6
0°-180°	23571.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3428	3428	3428	3428	3428	
5°	3445	3408	3419	3407	3401	327
15°	3315	3281	3295	3283	3277	936
25°	3073	3036	3053	3020	3017	1414
35°	2707	2675	2684	2648	2645	1690
45°	2190	2162	2152	2114	2108	1678
55°	1435	1412	1402	1378	1373	1286
65°	770	765	774	768	768	781
75°	416	416	416	419	419	440
85°	106	112	118	118	118	124
90°	6	18	36	38	38	16
95°	166	591	1782	911	630	173
105°	542	843	3238	4844	4546	569
115°	956	1170	2696	5210	5892	941
125°	1305	1499	2421	4092	4815	1165
135°	1572	1754	2353	3301	3738	1213
145°	1817	1959	2323	2822	3031	1140
155°	2063	2138	2302	2532	2613	950
165°	2237	2264	2311	2403	2415	631
175°	2326	2323	2314	2347	2341	221
180°	2323	2323	2323	2323	2323	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3427.5	3427.5	3427.5	3427.5	3427.5
2.5°	3448.7	3418.7	3427.5	3420.0	3403.9
5°	3445.2	3407.7	3418.6	3406.7	3400.9
7.5°	3418.6	3381.7	3392.6	3380.8	3377.3
10°	3395.0	3360.4	3371.4	3359.4	3353.7
12.5°	3369.0	3332.1	3345.4	3331.1	3325.3
15°	3315.3	3280.7	3294.6	3282.7	3276.9
17.5°	3256.3	3219.3	3233.2	3219.5	3212.0
20°	3209.0	3174.4	3188.4	3167.6	3164.7
22.5°	3157.1	3122.4	3136.4	3108.6	3108.1
25°	3073.2	3035.7	3052.6	3020.0	3017.1
27.5°	2973.4	2938.8	2952.8	2919.6	2916.2
30°	2904.9	2870.3	2884.3	2848.7	2842.9
32.5°	2827.0	2794.7	2806.3	2770.8	2767.4
35°	2707.1	2675.4	2683.5	2648.0	2645.2
37.5°	2570.8	2541.9	2546.6	2507.5	2504.6
40°	2473.9	2445.1	2447.4	2406.0	2403.1
42.5°	2367.6	2338.8	2336.4	2295.0	2292.1
45°	2190.5	2161.7	2152.1	2113.6	2107.9
47.5°	1988.6	1959.7	1941.9	1910.6	1906.5
50°	1842.2	1813.3	1797.9	1771.1	1762.5
52.5°	1683.9	1655.1	1642.0	1617.6	1608.9
55°	1434.8	1411.7	1402.3	1378.5	1372.8
57.5°	1198.0	1182.4	1179.7	1156.6	1154.3
60°	1053.9	1045.3	1045.1	1024.4	1024.4
62.5°	931.1	924.8	929.3	915.7	913.4
65°	770.5	764.7	773.5	767.6	767.6
67.5°	643.6	643.6	648.9	646.5	646.5
70°	572.7	572.7	575.7	575.7	575.7
72.5°	509.0	506.6	514.3	514.2	511.9
75°	416.3	416.3	416.3	419.2	419.2
77.5°	324.1	324.7	327.1	326.5	324.1
80°	262.7	265.6	265.7	262.7	262.7
82.5°	201.3	204.2	204.3	203.6	201.3
85°	106.3	112.1	118.1	118.1	118.1
87.5°	31.9	43.4	54.3	54.9	52.6
90°	5.9	17.5	35.5	38.5	38.5
92.5°	72.2	255.1	504.3	242.8	168.7
95°	165.7	591.1	1781.7	911.1	630.4
97.5°	264.6	676.7	2794.4	2334.5	1760.3
100°	340.3	710.8	3116.4	3260.6	2705.0
102.5°	413.7	758.7	3223.0	3954.3	3498.2
105°	541.6	842.6	3237.8	4843.9	4545.9
107.5°	662.3	930.9	3099.8	5301.1	5378.1
110°	742.8	997.5	2974.4	5443.1	5723.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	828.1	1064.2	2853.6	5411.7	5873.0
115°	955.9	1170.1	2696.2	5209.5	5892.5
117.5°	1072.5	1273.4	2574.2	4886.9	5647.4
120°	1148.3	1342.2	2512.7	4655.4	5436.7
122.5°	1214.6	1406.2	2467.7	4418.6	5197.6
125°	1305.2	1499.1	2420.9	4091.8	4815.2
127.5°	1392.2	1583.2	2391.3	3803.5	4449.4
130°	1444.3	1635.3	2379.5	3638.4	4205.5
132.5°	1496.4	1685.0	2367.6	3492.9	4013.8
135°	1571.5	1753.8	2352.9	3301.0	3737.9
137.5°	1643.1	1817.9	2345.2	3138.2	3497.0
140°	1692.9	1860.7	2338.1	3038.0	3362.1
142.5°	1745.0	1901.2	2333.3	2944.5	3217.6
145°	1817.2	1959.0	2323.3	2822.2	3030.6
147.5°	1895.3	2018.6	2313.2	2719.4	2883.2
150°	1947.4	2054.5	2308.5	2654.9	2790.9
152.5°	1994.7	2087.9	2306.1	2602.2	2712.7
155°	2062.8	2138.1	2302.5	2532.3	2613.3
157.5°	2122.6	2181.1	2303.1	2483.1	2537.5
160°	2160.5	2209.7	2305.5	2454.4	2494.9
162.5°	2193.6	2233.6	2307.9	2430.5	2459.4
165°	2237.4	2263.5	2311.4	2403.4	2415.0
167.5°	2272.9	2288.0	2314.4	2382.6	2387.2
170°	2296.6	2302.4	2314.4	2370.6	2370.6
172.5°	2310.8	2312.0	2316.7	2358.8	2358.8
175°	2326.2	2323.3	2314.4	2346.8	2341.0
177.5°	2332.7	2328.1	2316.2	2335.0	2330.4
180°	2323.3	2323.3	2323.3	2323.3	2323.3

(END OF REPORT)