

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: P563013

Luminaire Tested: **SQ4-PC3-125U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563013  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-125U-075D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID 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: 23705.1 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

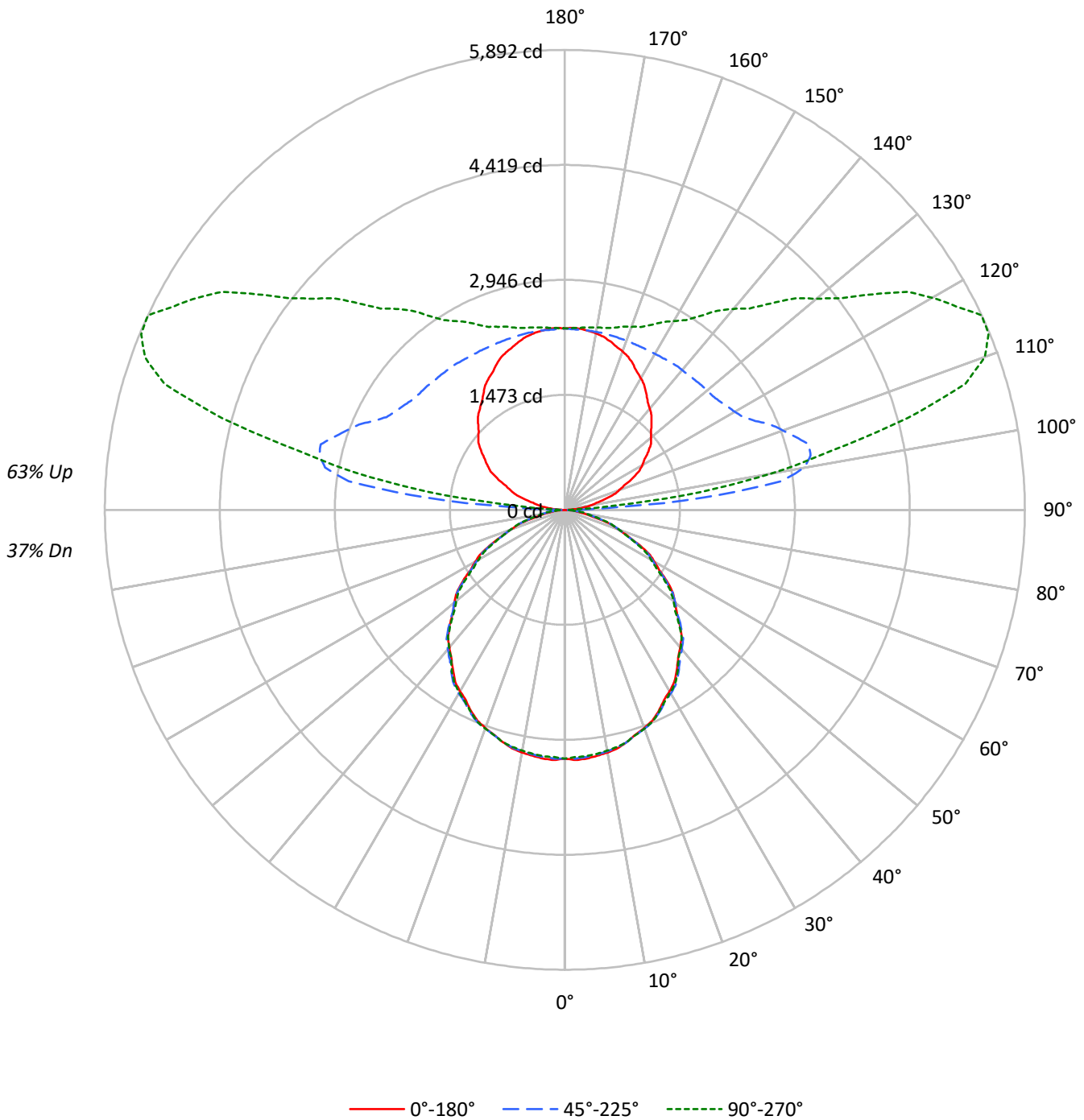
Input Watts (W): 172.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26
3	79	69	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	59	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

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

	0°	45°	90°
0°	9806	9806	9806
5°	9879	9816	9779
10°	9855	9809	9782
15°	9804	9804	9794
20°	9739	9768	9768
25°	9647	9717	9687
30°	9530	9645	9603
35°	9388	9532	9466
40°	9233	9363	9268
45°	9065	9129	8988
50°	8828	8828	8687
55°	8548	8437	8310
60°	8135	7971	7844
65°	7519	7369	7304
70°	6583	6636	6610
75°	5297	5858	5894
80°	3765	4968	5019
85°	2290	4167	4167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.7	1.3
10°-20°	865.9	3.7
20°-30°	1311.3	5.5
30°-40°	1572.1	6.6
40°-50°	1603.0	6.8
50°-60°	1399.3	5.9
60°-70°	1001.8	4.2
70°-80°	516.0	2.2
80°-90°	135.9	0.6
90°-100°	1086.8	4.6
100°-110°	2927.6	12.4
110°-120°	3072.5	13.0
120°-130°	2493.2	10.5
130°-140°	1955.4	8.2
140°-150°	1501.2	6.3
150°-160°	1079.4	4.6
160°-170°	659.4	2.8
170°-180°	222.4	0.9
0°-30°	2479.0	10.5
0°-40°	4051.1	17.1
0°-60°	7053.4	29.8
0°-90°	8707.1	36.7
90°-120°	7086.9	29.9
90°-150°	13036.8	55.0
90°-180°	14998.0	63.3
0°-180°	23705.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3188	3188	3188	3188	3188	
5°	3200	3168	3180	3171	3168	304
15°	3079	3053	3079	3079	3076	868
25°	2843	2823	2864	2855	2855	1308
35°	2500	2495	2539	2521	2521	1564
45°	2084	2078	2099	2072	2066	1604
55°	1594	1574	1574	1550	1550	1421
65°	1033	1010	1013	1004	1004	1022
75°	446	466	493	496	496	482
85°	65	100	118	121	118	88
90°	6	18	36	38	38	14
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°	3188.4	3188.4	3188.4	3188.4	3188.4
2.5°	3207.3	3179.5	3188.4	3181.0	3169.5
5°	3200.2	3168.4	3179.5	3170.6	3167.7
7.5°	3177.1	3145.4	3160.0	3154.1	3151.2
10°	3155.9	3124.1	3141.1	3135.2	3132.3
12.5°	3127.5	3098.1	3117.5	3111.6	3111.0
15°	3079.1	3053.2	3079.1	3079.1	3076.2
17.5°	3018.3	2994.6	3022.4	3024.2	3022.4
20°	2975.8	2949.8	2984.7	2981.8	2984.7
22.5°	2923.8	2902.5	2939.8	2932.2	2935.1
25°	2843.0	2822.7	2863.6	2854.8	2854.8
27.5°	2747.3	2732.9	2777.4	2768.0	2768.0
30°	2683.5	2669.1	2716.0	2704.2	2704.2
32.5°	2612.7	2602.9	2647.5	2633.4	2633.4
35°	2500.5	2494.7	2538.9	2521.2	2521.2
37.5°	2384.8	2379.6	2419.6	2398.2	2391.3
40°	2299.8	2296.9	2332.2	2308.6	2308.6
42.5°	2214.7	2211.8	2242.5	2214.1	2214.1
45°	2084.2	2078.5	2099.0	2072.3	2066.5
47.5°	1941.9	1936.2	1949.0	1920.0	1917.1
50°	1845.1	1839.3	1845.1	1818.5	1815.6
52.5°	1745.9	1735.5	1736.5	1709.9	1709.3
55°	1594.2	1574.0	1573.5	1549.9	1549.9
57.5°	1433.6	1407.0	1409.4	1389.2	1386.3
60°	1322.6	1293.7	1296.0	1278.2	1275.3
62.5°	1213.9	1180.5	1187.4	1167.3	1166.7
65°	1033.3	1010.2	1012.6	1003.7	1003.7
67.5°	859.7	838.3	853.8	846.7	846.1
70°	732.1	717.7	738.0	738.0	735.1
72.5°	614.1	613.5	638.9	638.9	640.6
75°	445.8	466.0	493.0	496.0	496.0
77.5°	297.6	333.4	363.1	364.3	363.7
80°	212.6	253.0	280.5	286.3	283.4
82.5°	144.1	186.8	209.6	215.4	212.6
85°	64.9	99.6	118.1	121.0	118.1
87.5°	20.1	43.2	54.3	54.8	50.2
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)