

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: P563689

Luminaire Tested: **SQ4-PP3-125U-075D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563689
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-075D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM 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: 23860.4 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

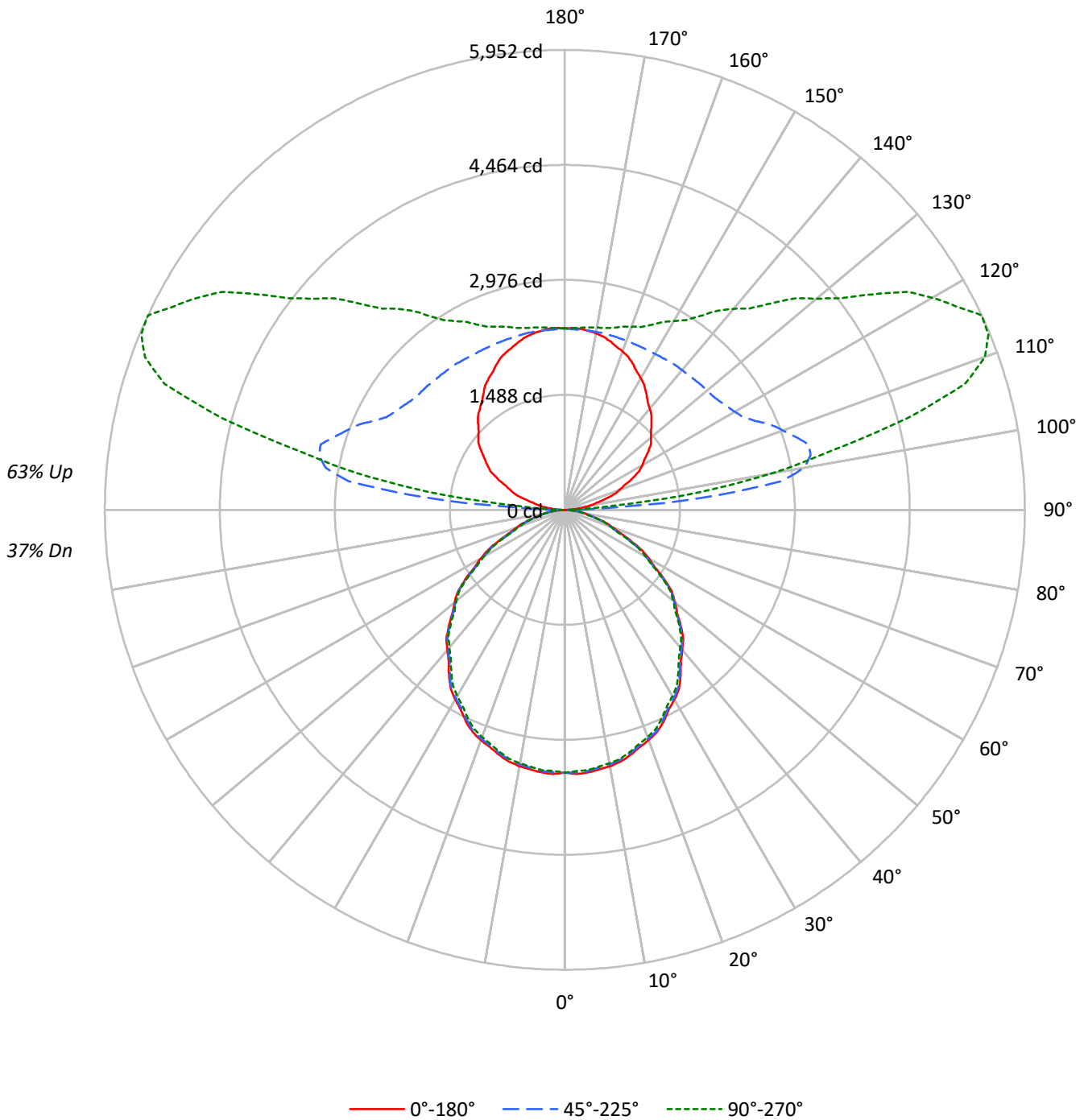
Input Watts (W): 172.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10473	10437
10°	10520	10446	10399
15°	10450	10393	10336
20°	10381	10323	10244
25°	10258	10187	10086
30°	10068	10015	9888
35°	9805	9737	9614
40°	9491	9431	9323
45°	9232	9167	9076
50°	8901	8843	8758
55°	8440	8328	8264
60°	7683	7463	7426
65°	6768	6487	6465
70°	5844	5603	5603
75°	5030	4960	4888
80°	4435	4488	4382
85°	3472	3786	3786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.6	1.3
10°-20°	918.4	3.8
20°-30°	1375.6	5.8
30°-40°	1613.6	6.8
40°-50°	1618.6	6.8
50°-60°	1380.8	5.8
60°-70°	900.5	3.8
70°-80°	451.8	1.9
80°-90°	130.5	0.5
90°-100°	1097.8	4.6
100°-110°	2957.1	12.4
110°-120°	3103.4	13.0
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°	2615.7	11.0
0°-40°	4229.3	17.7
0°-60°	7228.7	30.3
0°-90°	8711.6	36.5
90°-120°	7158.3	30.0
90°-150°	13168.0	55.2
90°-180°	15149.0	63.5
0°-180°	23860.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3402	3402	3402	3402	3402	
5°	3414	3381	3393	3381	3381	324
15°	3282	3250	3264	3252	3246	926
25°	3023	2988	3002	2975	2972	1390
35°	2612	2585	2594	2564	2561	1631
45°	2123	2108	2108	2087	2087	1634
55°	1574	1568	1553	1544	1541	1399
65°	930	913	891	886	888	928
75°	423	423	417	414	411	459
85°	98	107	107	107	107	116
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°	3401.5	3401.5	3401.5	3401.5	3401.5
2.5°	3423.0	3395.0	3401.5	3396.4	3382.5
5°	3413.5	3381.4	3392.6	3380.7	3380.7
7.5°	3390.2	3355.2	3366.4	3354.4	3353.8
10°	3368.7	3333.8	3344.9	3332.9	3330.0
12.5°	3337.7	3302.8	3316.3	3301.9	3301.4
15°	3282.3	3250.2	3264.4	3252.3	3246.5
17.5°	3219.7	3184.7	3201.8	3185.0	3182.7
20°	3172.0	3137.0	3154.1	3130.2	3130.2
22.5°	3114.7	3079.8	3099.2	3068.2	3068.2
25°	3022.9	2987.9	3002.1	2975.2	2972.2
27.5°	2913.8	2879.4	2894.1	2863.7	2863.1
30°	2835.1	2803.0	2820.2	2787.3	2784.4
32.5°	2749.3	2719.5	2732.0	2699.1	2696.2
35°	2611.5	2585.3	2593.6	2563.8	2560.8
37.5°	2466.6	2439.8	2449.3	2423.7	2422.5
40°	2364.1	2346.6	2349.2	2328.2	2322.3
42.5°	2268.7	2248.9	2251.4	2230.5	2229.3
45°	2122.6	2108.0	2107.7	2086.8	2086.8
47.5°	1967.6	1956.5	1953.3	1936.0	1935.4
50°	1860.3	1851.5	1848.3	1833.4	1830.4
52.5°	1748.2	1744.1	1733.9	1721.3	1720.7
55°	1574.1	1568.2	1553.2	1544.2	1541.3
57.5°	1385.1	1373.4	1356.4	1343.4	1345.7
60°	1249.1	1237.5	1213.3	1207.4	1207.4
62.5°	1117.9	1104.0	1079.8	1071.5	1076.2
65°	930.1	912.6	891.4	885.5	888.4
67.5°	759.6	743.9	720.9	720.8	718.5
70°	649.9	641.2	623.1	623.1	623.1
72.5°	552.1	548.0	534.8	534.8	532.4
75°	423.3	423.3	417.4	414.3	411.4
77.5°	317.2	318.4	315.4	312.3	307.1
80°	250.4	256.2	253.4	250.4	247.4
82.5°	188.4	194.2	193.8	188.4	187.8
85°	98.4	107.1	107.3	107.3	107.3
87.5°	27.4	39.1	45.3	46.0	48.3
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)