

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: P563685

Luminaire Tested: **SQ4-PP3-125U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563685
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23622.8 lumens
Efficiency: N/A
Efficacy: 137.0 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

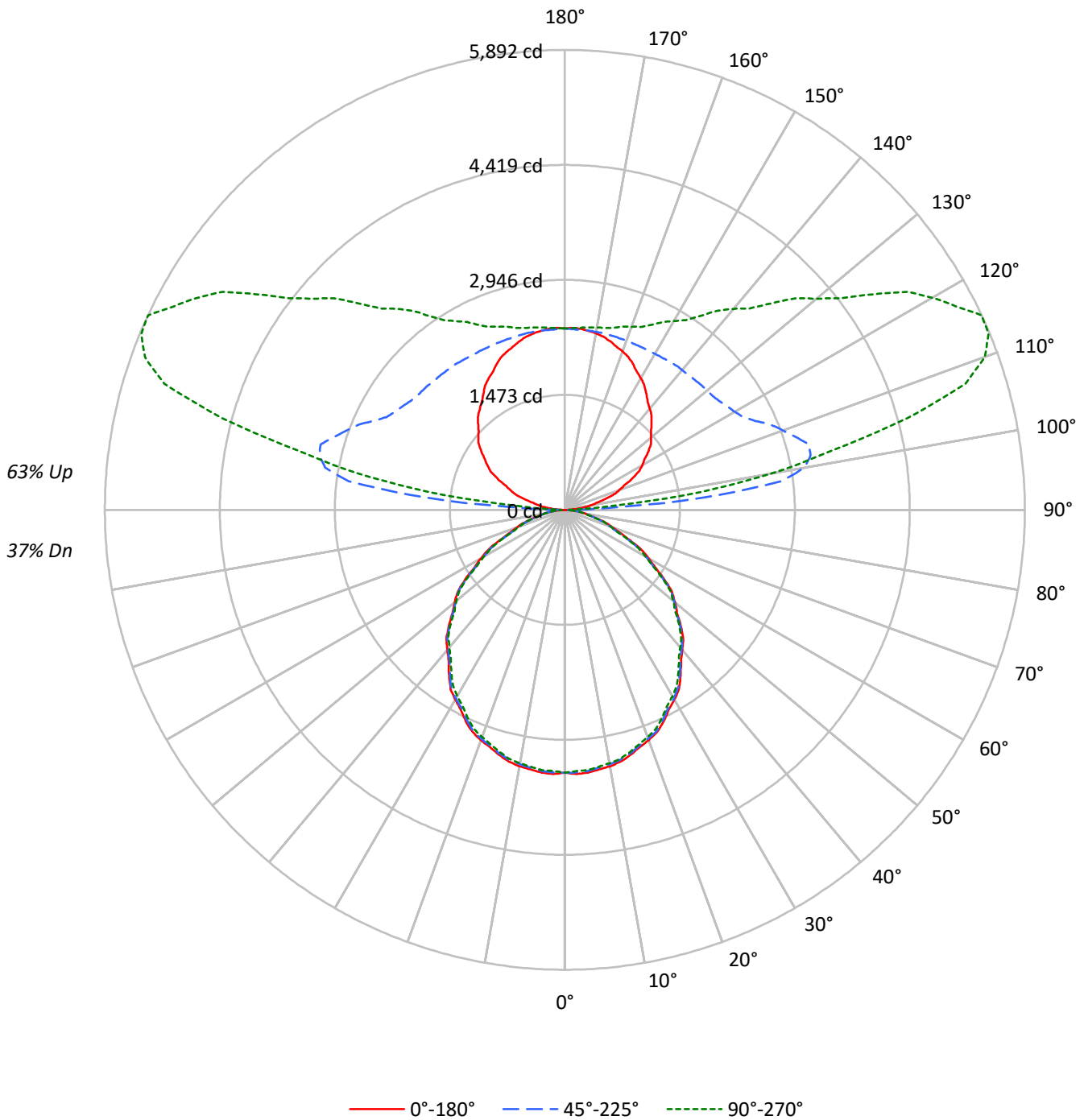
Input Watts (W): 172.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	10357	10357	10357
5°	10433	10369	10333
10°	10415	10342	10295
15°	10346	10290	10234
20°	10278	10220	10143
25°	10156	10085	9985
30°	9968	9915	9790
35°	9707	9640	9518
40°	9396	9337	9230
45°	9140	9076	8986
50°	8812	8755	8670
55°	8356	8245	8182
60°	7607	7389	7353
65°	6701	6422	6400
70°	5785	5547	5547
75°	4980	4910	4840
80°	4390	4444	4339
85°	3437	3751	3751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.4	1.3
10°-20°	909.3	3.8
20°-30°	1361.9	5.8
30°-40°	1597.5	6.8
40°-50°	1602.5	6.8
50°-60°	1367.1	5.8
60°-70°	891.6	3.8
70°-80°	447.3	1.9
80°-90°	129.2	0.5
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°	2589.7	11.0
0°-40°	4187.1	17.7
0°-60°	7156.7	30.3
0°-90°	8624.8	36.5
90°-120°	7086.9	30.0
90°-150°	13036.8	55.2
90°-180°	14998.0	63.5
0°-180°	23622.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3368	3368	3368	3368	3368	
5°	3380	3348	3359	3347	3347	321
15°	3250	3218	3232	3220	3214	917
25°	2993	2958	2972	2946	2943	1376
35°	2586	2560	2568	2538	2535	1615
45°	2102	2087	2087	2066	2066	1618
55°	1558	1553	1538	1529	1526	1385
65°	921	904	882	877	880	919
75°	419	419	413	410	407	455
85°	97	106	106	106	106	115
90°	6	18	36	38	38	15
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°	3367.6	3367.6	3367.6	3367.6	3367.6
2.5°	3388.9	3361.2	3367.6	3362.6	3348.8
5°	3379.5	3347.7	3358.8	3347.0	3347.0
7.5°	3356.4	3321.8	3332.8	3321.0	3320.4
10°	3335.2	3300.5	3311.6	3299.7	3296.8
12.5°	3304.5	3269.9	3283.2	3269.1	3268.5
15°	3249.6	3217.8	3231.9	3219.9	3214.2
17.5°	3187.6	3153.0	3169.9	3153.3	3151.0
20°	3140.4	3105.8	3122.7	3099.1	3099.1
22.5°	3083.7	3049.1	3068.4	3037.7	3037.7
25°	2992.8	2958.2	2972.1	2945.5	2942.6
27.5°	2884.8	2850.7	2865.3	2835.2	2834.6
30°	2806.9	2775.1	2792.1	2759.6	2756.7
32.5°	2721.9	2692.4	2704.7	2672.2	2669.3
35°	2585.5	2559.5	2567.8	2538.2	2535.3
37.5°	2442.1	2415.5	2424.9	2399.5	2398.4
40°	2340.5	2323.2	2325.8	2305.0	2299.2
42.5°	2246.1	2226.5	2229.0	2208.3	2207.1
45°	2101.5	2087.0	2086.7	2066.0	2066.0
47.5°	1948.0	1937.0	1933.8	1916.7	1916.1
50°	1841.7	1833.1	1829.9	1815.1	1812.2
52.5°	1730.8	1726.7	1716.6	1704.2	1703.6
55°	1558.4	1552.6	1537.7	1528.8	1525.9
57.5°	1371.3	1359.7	1342.9	1330.0	1332.3
60°	1236.7	1225.1	1201.3	1195.4	1195.4
62.5°	1106.8	1093.0	1069.0	1060.9	1065.5
65°	920.9	903.5	882.5	876.7	879.5
67.5°	752.0	736.5	713.7	713.6	711.3
70°	643.4	634.8	616.9	616.9	616.9
72.5°	546.6	542.6	529.5	529.4	527.1
75°	419.1	419.1	413.2	410.2	407.3
77.5°	314.0	315.2	312.3	309.2	304.0
80°	247.9	253.7	250.9	247.9	245.0
82.5°	186.5	192.3	191.8	186.5	185.9
85°	97.4	106.1	106.3	106.3	106.3
87.5°	27.2	38.7	44.9	45.5	47.8
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)