

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: P563665

Luminaire Tested: **SQ4-PP3-125U-050D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563665
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-050D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

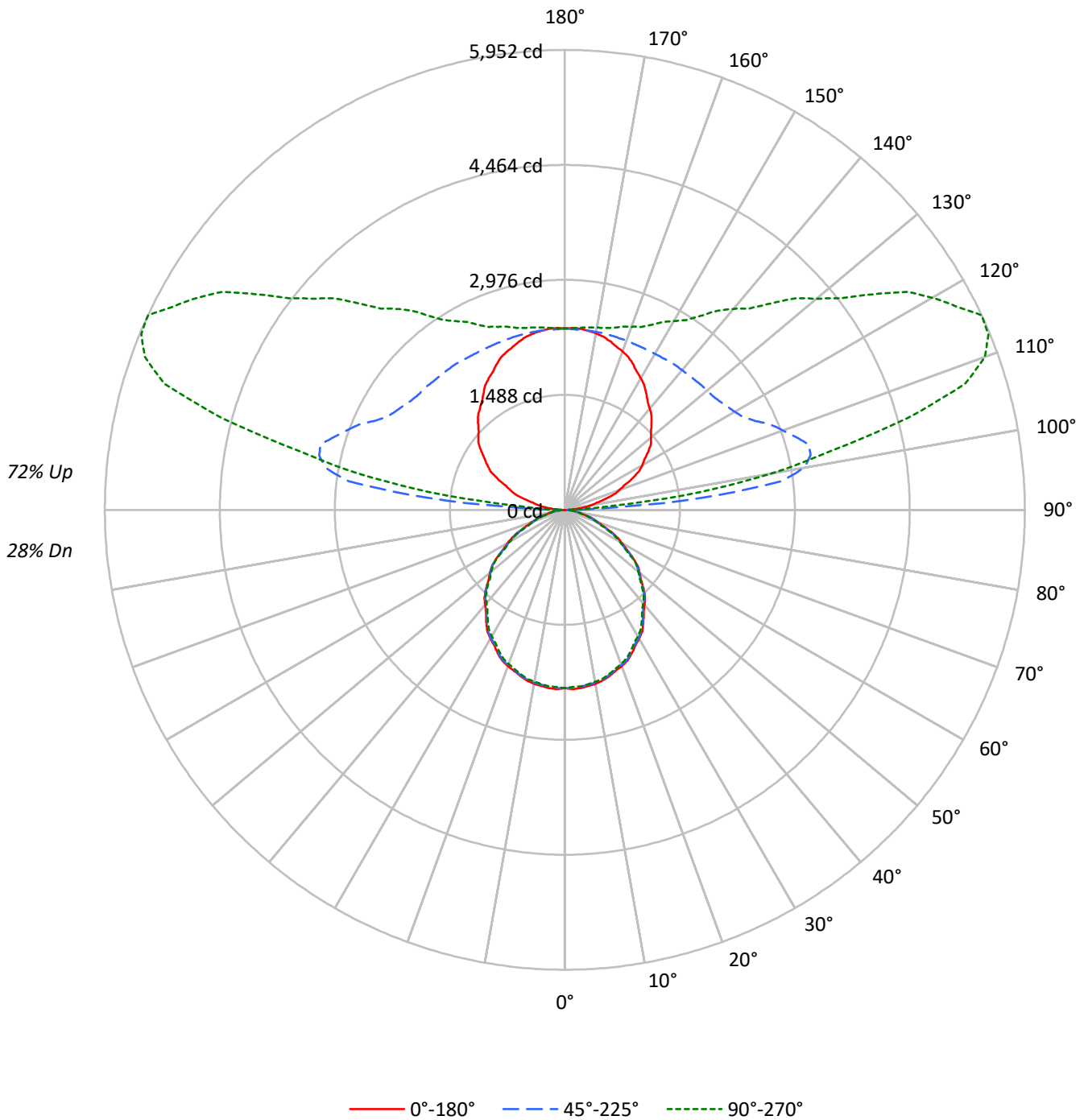
Lumens per Lamp: N/A
Luminaire Lumens: 21061.3 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 146.4
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7098	7098	7098
5°	7150	7106	7081
10°	7138	7087	7055
15°	7091	7052	7013
20°	7043	7004	6951
25°	6960	6912	6843
30°	6831	6795	6709
35°	6652	6607	6523
40°	6439	6399	6326
45°	6263	6219	6158
50°	6038	6000	5942
55°	5726	5650	5607
60°	5213	5063	5039
65°	4593	4401	4387
70°	3965	3801	3801
75°	3413	3365	3316
80°	3009	3044	2974
85°	2354	2569	2569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.2	1.0
10°-20°	623.1	3.0
20°-30°	933.4	4.4
30°-40°	1094.8	5.2
40°-50°	1098.2	5.2
50°-60°	936.8	4.4
60°-70°	611.0	2.9
70°-80°	306.5	1.5
80°-90°	90.3	0.4
90°-100°	1097.8	5.2
100°-110°	2957.1	14.0
110°-120°	3103.4	14.7
120°-130°	2518.3	12.0
130°-140°	1975.0	9.4
140°-150°	1516.3	7.2
150°-160°	1090.2	5.2
160°-170°	666.1	3.2
170°-180°	224.6	1.1
0°-30°	1774.7	8.4
0°-40°	2869.5	13.6
0°-60°	4904.5	23.3
0°-90°	5912.4	28.1
90°-120°	7158.3	34.0
90°-150°	13168.0	62.5
90°-180°	15149.0	71.9
0°-180°	21061.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2308	2308	2308	2308	2308	
5°	2316	2294	2302	2294	2294	220
15°	2227	2205	2215	2207	2203	628
25°	2051	2027	2037	2019	2017	943
35°	1772	1754	1760	1740	1738	1107
45°	1440	1430	1430	1416	1416	1109
55°	1068	1064	1054	1048	1046	949
65°	631	619	605	601	603	630
75°	287	287	283	281	279	312
85°	67	73	73	73	73	79
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°	2307.9	2307.9	2307.9	2307.9	2307.9
2.5°	2322.4	2303.4	2307.9	2304.4	2294.9
5°	2316.0	2294.2	2301.8	2293.7	2293.7
7.5°	2300.2	2276.5	2284.0	2275.9	2275.5
10°	2285.6	2261.9	2269.4	2261.3	2259.3
12.5°	2264.6	2240.9	2250.0	2240.3	2239.9
15°	2227.0	2205.2	2214.8	2206.6	2202.7
17.5°	2184.5	2160.8	2172.4	2161.0	2159.4
20°	2152.1	2128.4	2140.0	2123.8	2123.8
22.5°	2113.3	2089.6	2102.8	2081.7	2081.7
25°	2051.0	2027.3	2036.8	2018.6	2016.6
27.5°	1977.0	1953.6	1963.6	1943.0	1942.6
30°	1923.6	1901.8	1913.4	1891.2	1889.2
32.5°	1865.3	1845.1	1853.6	1831.3	1829.3
35°	1771.9	1754.1	1759.7	1739.5	1737.5
37.5°	1673.6	1655.4	1661.8	1644.4	1643.6
40°	1604.0	1592.1	1593.9	1579.6	1575.7
42.5°	1539.3	1525.8	1527.5	1513.3	1512.6
45°	1440.1	1430.3	1430.0	1415.9	1415.9
47.5°	1335.0	1327.4	1325.3	1313.5	1313.1
50°	1262.1	1256.2	1254.1	1243.9	1241.9
52.5°	1186.1	1183.3	1176.4	1167.9	1167.5
55°	1068.0	1064.0	1053.8	1047.7	1045.7
57.5°	939.7	931.8	920.3	911.5	913.0
60°	847.5	839.6	823.2	819.2	819.2
62.5°	758.5	749.0	732.6	727.0	730.2
65°	631.1	619.2	604.8	600.8	602.8
67.5°	515.4	504.7	489.1	489.0	487.5
70°	440.9	435.0	422.7	422.7	422.7
72.5°	374.6	371.8	362.9	362.8	361.2
75°	287.2	287.2	283.2	281.1	279.1
77.5°	215.2	216.0	214.0	211.9	208.3
80°	169.9	173.9	171.9	169.9	167.9
82.5°	127.8	131.8	131.5	127.8	127.4
85°	66.7	72.7	72.8	72.8	72.8
87.5°	19.0	27.7	33.1	33.7	35.3
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)