

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: P519455

Luminaire Tested: **SQ4-WB-125U-050D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519455
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-125U-050D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

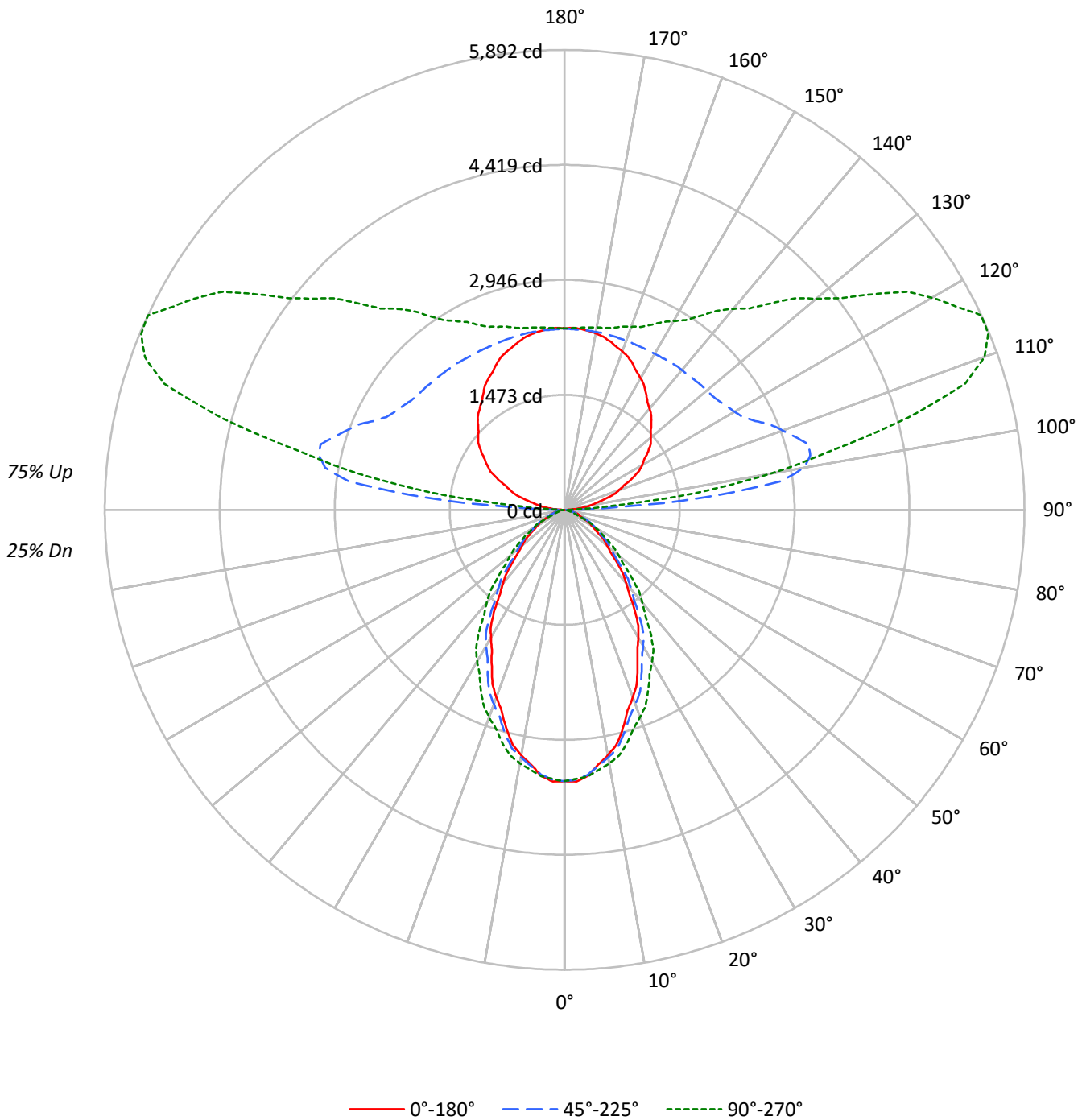
Lumens per Lamp: N/A
Luminaire Lumens: 20068.4 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33	25
1	93	89	85	82	83	79	76	74	62	60	58	45	44	43	30	30	29	22
2	85	78	73	68	76	70	65	62	55	52	49	41	39	37	27	26	26	20
3	78	69	63	57	69	62	57	52	49	45	42	36	34	32	25	24	22	17
4	71	62	54	49	64	55	49	45	44	39	36	33	30	28	23	21	20	16
5	66	55	48	42	59	50	43	38	39	35	31	30	27	24	21	19	18	14
6	61	49	42	37	54	45	38	34	36	31	28	27	24	22	19	17	16	13
7	56	45	37	32	50	40	34	30	32	28	24	25	22	19	17	16	14	11
8	52	41	33	29	46	37	31	26	30	25	22	23	20	17	16	14	13	10
9	48	37	30	25	43	34	28	23	27	23	20	21	18	16	15	13	12	10
10	45	34	27	23	41	31	25	21	25	21	18	19	16	14	14	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10689	10689	10689
5°	10556	10519	10580
10°	9973	10064	10297
15°	9207	9420	9843
20°	8361	8675	9249
25°	7499	7908	8617
30°	6705	7144	7962
35°	5864	6287	7186
40°	4935	5327	6221
45°	4073	4425	5194
50°	3400	3707	4327
55°	2887	3181	3574
60°	2467	2758	2852
65°	1965	2320	1843
70°	1742	1810	1125
75°	1612	1467	689
80°	1486	1351	595
85°	1344	1239	483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.8	1.6
10°-20°	829.2	4.1
20°-30°	1074.1	5.4
30°-40°	1051.8	5.2
40°-50°	805.1	4.0
50°-60°	536.5	2.7
60°-70°	292.8	1.5
70°-80°	122.0	0.6
80°-90°	40.0	0.2
90°-100°	1086.8	5.4
100°-110°	2927.6	14.6
110°-120°	3072.5	15.3
120°-130°	2493.2	12.4
130°-140°	1955.4	9.7
140°-150°	1501.2	7.5
150°-160°	1079.4	5.4
160°-170°	659.4	3.3
170°-180°	222.4	1.1
0°-30°	2222.2	11.1
0°-40°	3274.0	16.3
0°-60°	4615.6	23.0
0°-90°	5070.4	25.3
90°-120°	7086.9	35.3
90°-150°	13036.8	65.0
90°-180°	14998.0	74.7
0°-180°	20068.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3476	3476	3476	3476	3476	
5°	3419	3385	3407	3415	3427	318
15°	2892	2881	2959	3039	3092	808
25°	2210	2216	2330	2432	2539	1016
35°	1562	1569	1675	1787	1914	971
45°	936	954	1017	1094	1194	730
55°	538	561	593	616	666	488
65°	270	292	319	278	253	281
75°	136	136	124	85	58	145
85°	38	38	35	23	14	42
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°	3475.8	3475.8	3475.8	3475.8	3475.8
2.5°	3484.4	3453.3	3461.2	3461.0	3451.4
5°	3419.4	3385.1	3407.2	3415.1	3427.0
7.5°	3292.5	3266.5	3306.8	3336.7	3360.8
10°	3193.7	3171.3	3222.6	3266.1	3297.4
12.5°	3079.0	3060.2	3123.8	3182.1	3223.0
15°	2891.7	2881.2	2958.8	3039.3	3091.5
17.5°	2691.3	2686.2	2775.2	2869.1	2935.9
20°	2554.6	2553.1	2650.7	2748.6	2826.1
22.5°	2416.8	2420.0	2522.6	2624.4	2712.6
25°	2209.9	2215.9	2330.4	2432.0	2539.4
27.5°	2018.7	2021.4	2139.8	2247.0	2361.5
30°	1888.1	1895.6	2011.7	2122.7	2242.0
32.5°	1757.6	1766.2	1879.9	1994.6	2116.3
35°	1561.8	1569.2	1674.6	1787.3	1914.1
37.5°	1359.8	1370.0	1463.5	1570.1	1694.7
40°	1229.3	1244.2	1326.9	1427.3	1549.6
42.5°	1103.6	1122.1	1198.8	1294.0	1404.4
45°	936.4	954.3	1017.3	1094.3	1194.2
47.5°	792.5	813.0	861.4	927.7	1013.0
50°	710.7	730.1	774.8	823.9	904.4
52.5°	638.7	658.1	697.9	735.8	804.4
55°	538.4	560.7	593.3	615.8	666.5
57.5°	456.0	477.5	503.3	513.5	544.2
60°	401.1	425.0	448.4	447.2	463.6
62.5°	351.1	371.4	394.7	378.6	379.5
65°	270.0	292.3	318.8	278.5	253.2
67.5°	218.1	222.9	250.1	194.2	164.1
70°	193.7	193.7	201.3	150.4	125.1
72.5°	170.5	170.5	163.5	122.3	95.8
75°	135.7	135.7	123.5	84.8	58.0
77.5°	104.6	103.4	94.6	63.3	42.1
80°	83.9	83.9	76.3	50.0	33.6
82.5°	65.6	65.6	59.2	39.0	25.0
85°	38.1	38.1	35.1	22.7	13.7
87.5°	14.6	16.9	19.3	15.0	13.8
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)