

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: P519463

Luminaire Tested: **SQ4-WB-125U-050D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519463
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

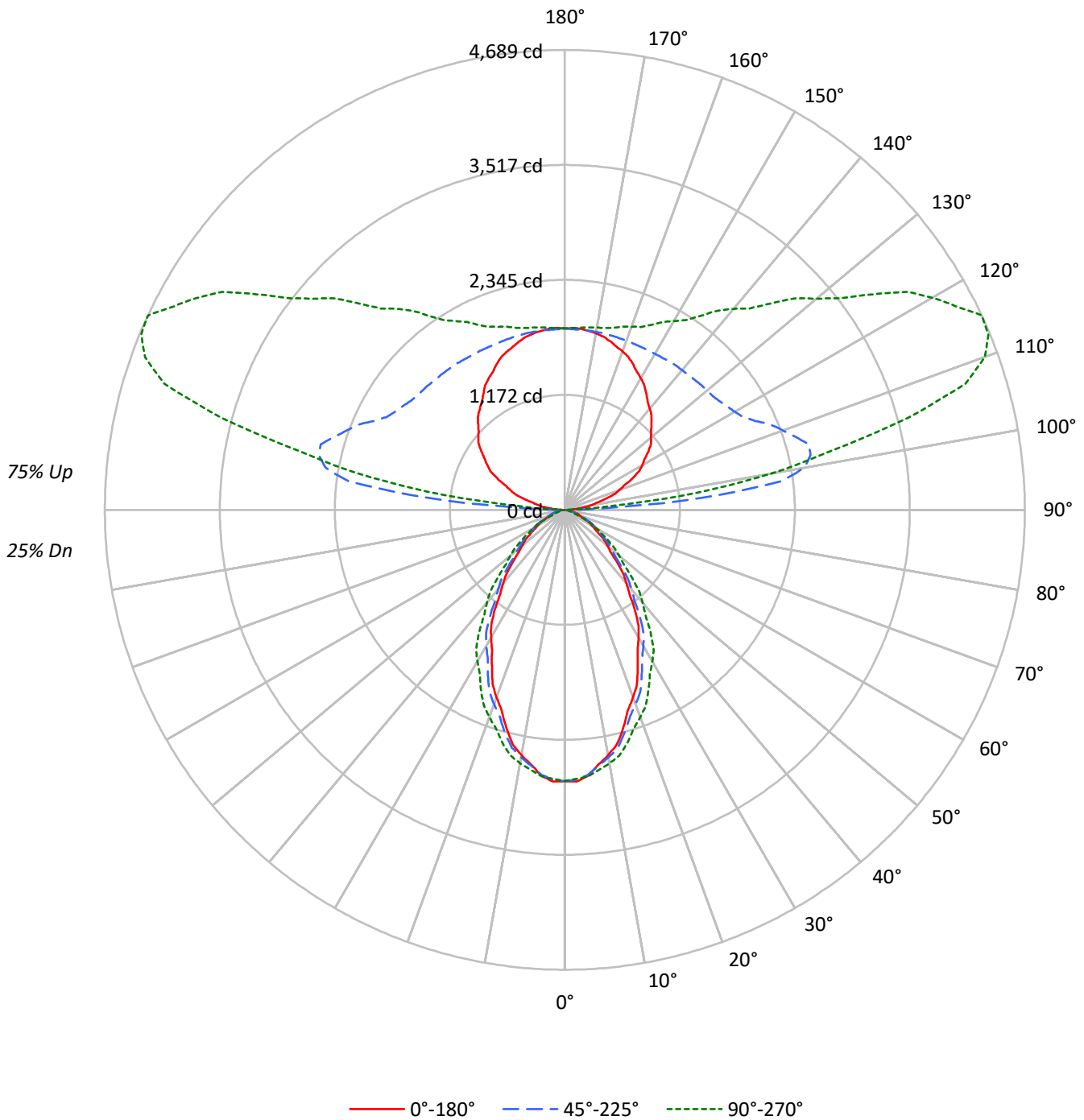
Lumens per Lamp: N/A
Luminaire Lumens: 15969.5 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

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°	8506	8506	8506
5°	8400	8370	8419
10°	7936	8008	8194
15°	7326	7496	7833
20°	6653	6903	7360
25°	5968	6293	6857
30°	5336	5685	6336
35°	4666	5003	5718
40°	3927	4239	4950
45°	3241	3521	4133
50°	2706	2950	3443
55°	2297	2531	2844
60°	1963	2195	2269
65°	1563	1846	1466
70°	1386	1440	895
75°	1283	1168	548
80°	1183	1075	473
85°	1069	984	385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.7	1.6
10°-20°	659.9	4.1
20°-30°	854.7	5.4
30°-40°	837.0	5.2
40°-50°	640.7	4.0
50°-60°	426.9	2.7
60°-70°	233.0	1.5
70°-80°	97.1	0.6
80°-90°	31.8	0.2
90°-100°	864.9	5.4
100°-110°	2329.7	14.6
110°-120°	2444.9	15.3
120°-130°	1984.0	12.4
130°-140°	1556.0	9.7
140°-150°	1194.6	7.5
150°-160°	858.9	5.4
160°-170°	524.8	3.3
170°-180°	177.0	1.1
0°-30°	1768.3	11.1
0°-40°	2605.3	16.3
0°-60°	3672.9	23.0
0°-90°	4034.8	25.3
90°-120°	5639.5	35.3
90°-150°	10374.1	65.0
90°-180°	11935.0	74.7
0°-180°	15969.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2766	2766	2766	2766	2766	
5°	2721	2694	2711	2718	2727	253
15°	2301	2293	2354	2418	2460	643
25°	1759	1763	1854	1935	2021	809
35°	1243	1249	1333	1422	1523	773
45°	745	759	810	871	950	581
55°	428	446	472	490	530	388
65°	215	233	254	222	202	223
75°	108	108	98	68	46	115
85°	30	30	28	18	11	33
90°	5	14	28	31	31	11
95°	132	470	1418	725	502	138
105°	431	670	2576	3855	3617	453
115°	761	931	2146	4146	4689	749
125°	1039	1193	1926	3256	3832	927
135°	1251	1396	1872	2627	2974	965
145°	1446	1559	1849	2246	2412	907
155°	1642	1701	1832	2015	2080	756
165°	1780	1801	1839	1912	1922	502
175°	1851	1849	1842	1868	1863	176
180°	1849	1849	1849	1849	1849	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2765.9	2765.9	2765.9	2765.9	2765.9
2.5°	2772.7	2748.0	2754.3	2754.1	2746.5
5°	2721.0	2693.7	2711.3	2717.6	2727.1
7.5°	2620.0	2599.4	2631.4	2655.2	2674.4
10°	2541.4	2523.6	2564.4	2599.0	2623.9
12.5°	2450.1	2435.2	2485.8	2532.2	2564.7
15°	2301.1	2292.8	2354.5	2418.5	2460.1
17.5°	2141.6	2137.6	2208.4	2283.1	2336.3
20°	2032.9	2031.7	2109.3	2187.2	2248.9
22.5°	1923.1	1925.8	2007.4	2088.3	2158.6
25°	1758.6	1763.3	1854.5	1935.3	2020.7
27.5°	1606.4	1608.5	1702.7	1788.1	1879.2
30°	1502.5	1508.4	1600.8	1689.1	1784.1
32.5°	1398.6	1405.5	1495.9	1587.2	1684.1
35°	1242.8	1248.7	1332.6	1422.3	1523.1
37.5°	1082.1	1090.2	1164.6	1249.4	1348.6
40°	978.2	990.1	1055.9	1135.8	1233.1
42.5°	878.2	892.9	953.9	1029.7	1117.5
45°	745.2	759.4	809.5	870.8	950.3
47.5°	630.6	647.0	685.5	738.2	806.1
50°	565.6	581.0	616.5	655.6	719.7
52.5°	508.3	523.7	555.4	585.5	640.1
55°	428.4	446.2	472.1	490.0	530.4
57.5°	362.9	380.0	400.5	408.6	433.0
60°	319.2	338.2	356.8	355.9	368.9
62.5°	279.4	295.5	314.1	301.2	302.0
65°	214.8	232.6	253.7	221.6	201.5
67.5°	173.6	177.3	199.0	154.6	130.6
70°	154.1	154.1	160.2	119.7	99.5
72.5°	135.7	135.7	130.1	97.3	76.2
75°	108.0	108.0	98.3	67.5	46.1
77.5°	83.3	82.3	75.2	50.3	33.5
80°	66.8	66.8	60.7	39.8	26.7
82.5°	52.2	52.2	47.1	31.1	19.9
85°	30.3	30.3	27.9	18.0	10.9
87.5°	11.6	13.5	15.4	11.9	11.0
90°	4.7	13.9	28.3	30.6	30.6
92.5°	57.5	203.0	401.3	193.2	134.2
95°	131.9	470.4	1417.8	725.0	501.6
97.5°	210.5	538.5	2223.7	1857.7	1400.8
100°	270.8	565.6	2479.9	2594.7	2152.5
102.5°	329.2	603.7	2564.7	3146.6	2783.7
105°	431.0	670.5	2576.5	3854.6	3617.4
107.5°	527.1	740.8	2466.7	4218.4	4279.7
110°	591.1	793.8	2366.9	4331.4	4554.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	659.0	846.9	2270.8	4306.4	4673.4
115°	760.7	931.1	2145.5	4145.5	4689.0
117.5°	853.5	1013.3	2048.5	3888.8	4494.0
120°	913.8	1068.1	1999.5	3704.5	4326.3
122.5°	966.5	1119.0	1963.7	3516.1	4136.0
125°	1038.6	1192.9	1926.5	3256.0	3831.7
127.5°	1107.8	1259.8	1902.9	3026.7	3540.6
130°	1149.3	1301.3	1893.5	2895.2	3346.6
132.5°	1190.7	1340.9	1884.1	2779.5	3194.0
135°	1250.6	1395.6	1872.3	2626.8	2974.5
137.5°	1307.5	1446.6	1866.2	2497.2	2782.8
140°	1347.1	1480.7	1860.5	2417.5	2675.4
142.5°	1388.6	1512.9	1856.7	2343.1	2560.4
145°	1446.0	1558.9	1848.7	2245.8	2411.6
147.5°	1508.2	1606.3	1840.7	2164.0	2294.3
150°	1549.6	1634.8	1837.0	2112.6	2220.8
152.5°	1587.3	1661.5	1835.1	2070.7	2158.7
155°	1641.5	1701.4	1832.3	2015.1	2079.5
157.5°	1689.1	1735.6	1832.7	1976.0	2019.2
160°	1719.2	1758.4	1834.6	1953.1	1985.3
162.5°	1745.6	1777.4	1836.5	1934.0	1957.1
165°	1780.4	1801.2	1839.3	1912.5	1921.7
167.5°	1808.7	1820.7	1841.7	1895.9	1899.6
170°	1827.5	1832.2	1841.7	1886.4	1886.4
172.5°	1838.9	1839.8	1843.6	1877.0	1877.0
175°	1851.1	1848.8	1841.7	1867.5	1862.9
177.5°	1856.3	1852.6	1843.1	1858.1	1854.4
180°	1848.7	1848.7	1848.7	1848.7	1848.7

(END OF REPORT)