

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: P519511

Luminaire Tested: **SQ4-WB-125U-100D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519511  
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-100D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

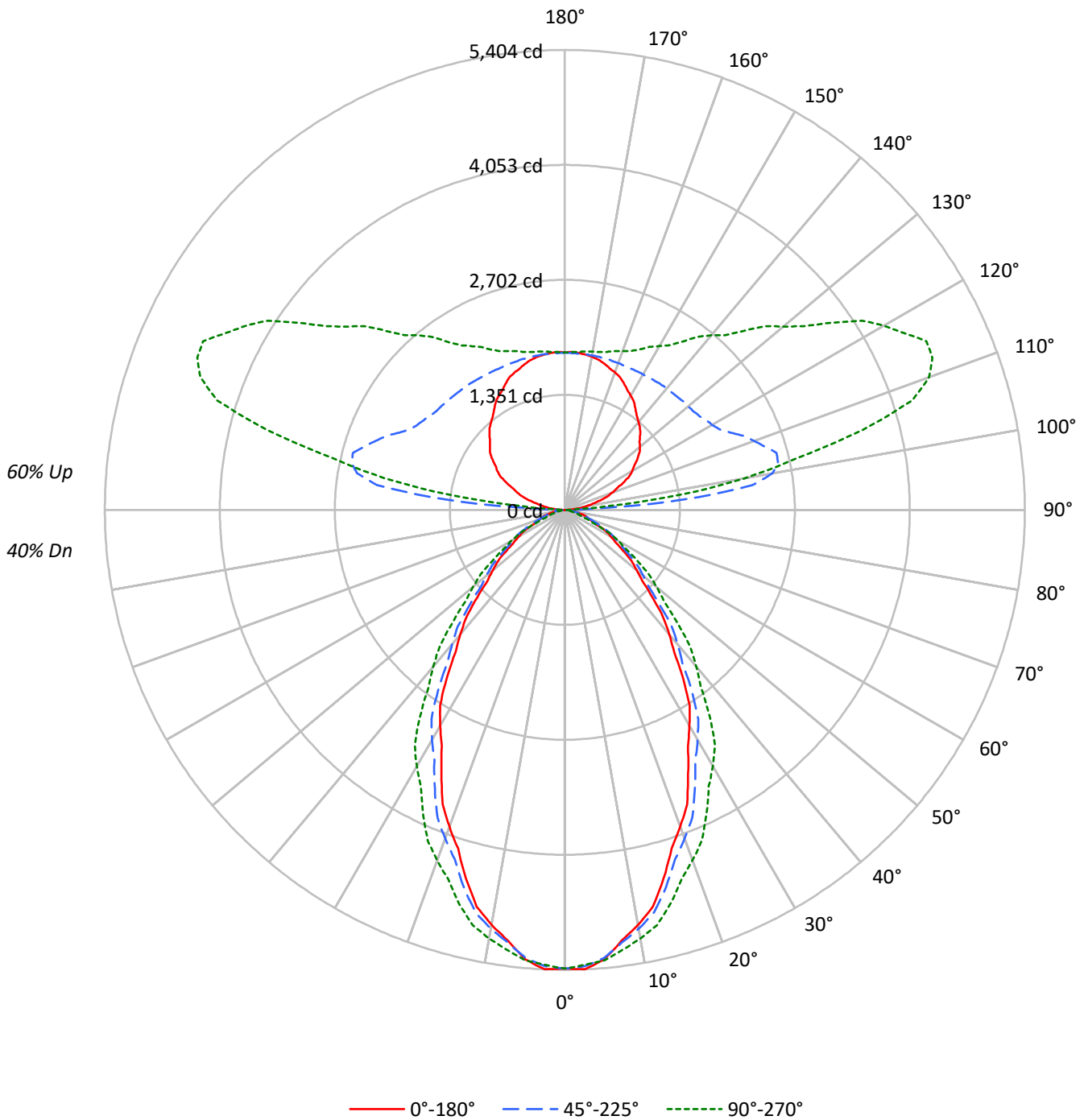
Lumens per Lamp: N/A  
Luminaire Lumens: 19794.1 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 201.2  
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



TEST NUMBER: P519511  
CATALOG NUMBER: SQ4-WB-125U-100D-930-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P519511

CATALOG NUMBER: SQ4-WB-125U-100D-930-1D-UNV-STD-W-12

**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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	92	89	86	88	84	81	79	69	67	65	55	54	53	43	42	41	35
2	88	82	76	72	80	75	70	66	62	59	56	50	48	46	39	37	36	31
3	81	73	66	61	74	67	61	56	55	51	48	45	42	40	35	33	32	27
4	75	65	58	52	68	60	54	49	50	45	42	41	37	35	32	30	28	24
5	69	58	51	45	63	54	47	42	45	40	37	37	34	31	29	27	25	22
6	64	53	45	40	58	49	42	37	41	36	32	34	30	28	27	25	23	20
7	59	48	40	35	54	44	38	33	37	33	29	31	27	25	25	23	21	18
8	55	44	36	32	50	40	34	30	34	29	26	29	25	22	23	21	19	16
9	52	40	33	28	47	37	31	27	32	27	24	26	23	20	22	19	17	15
10	48	37	30	26	44	34	28	24	29	25	21	25	21	19	20	18	16	14

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16578	16578	16578
5°	16371	16313	16408
10°	15467	15608	15970
15°	14278	14610	15265
20°	12966	13454	14344
25°	11630	12264	13364
30°	10399	11079	12347
35°	9093	9750	11145
40°	7654	8261	9648
45°	6316	6862	8055
50°	5273	5749	6711
55°	4477	4933	5542
60°	3826	4277	4423
65°	3047	3598	2857
70°	2701	2807	1744
75°	2501	2277	1068
80°	2304	2095	921
85°	2085	1920	752



TEST NUMBER: P519511

CATALOG NUMBER: SQ4-WB-125U-100D-930-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.4	2.5
10°-20°	1286.1	6.5
20°-30°	1665.8	8.4
30°-40°	1631.3	8.2
40°-50°	1248.6	6.3
50°-60°	832.0	4.2
60°-70°	454.0	2.3
70°-80°	189.2	1.0
80°-90°	57.9	0.3
90°-100°	864.9	4.4
100°-110°	2329.7	11.8
110°-120°	2444.9	12.4
120°-130°	1984.0	10.0
130°-140°	1556.0	7.9
140°-150°	1194.6	6.0
150°-160°	858.9	4.3
160°-170°	524.8	2.7
170°-180°	177.0	0.9
0°-30°	3446.3	17.4
0°-40°	5077.6	25.7
0°-60°	7158.2	36.2
0°-90°	7859.3	39.7
90°-120°	5639.5	28.5
90°-150°	10374.1	52.4
90°-180°	11935.0	60.3
0°-180°	19794.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5391	5391	5391	5391	5391	
5°	5303	5250	5284	5296	5315	493
15°	4485	4468	4589	4714	4794	1252
25°	3427	3437	3614	3772	3938	1576
35°	2422	2434	2597	2772	2968	1506
45°	1452	1480	1578	1697	1852	1133
55°	835	870	920	955	1034	757
65°	419	453	494	432	393	435
75°	210	210	192	132	90	225
85°	59	59	54	35	21	64
90°	5	14	28	31	31	12
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	

TEST NUMBER: P519511

CATALOG NUMBER: SQ4-WB-125U-100D-930-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5390.6	5390.6	5390.6	5390.6	5390.6
2.5°	5403.8	5355.7	5367.9	5367.5	5352.7
5°	5303.0	5249.8	5284.1	5296.4	5314.9
7.5°	5106.2	5066.0	5128.5	5174.7	5212.2
10°	4953.0	4918.3	4997.9	5065.2	5113.8
12.5°	4775.1	4746.0	4844.6	4935.0	4998.4
15°	4484.6	4468.5	4588.7	4713.6	4794.5
17.5°	4173.8	4166.0	4303.9	4449.6	4553.2
20°	3961.9	3959.6	4110.9	4262.7	4382.9
22.5°	3748.1	3753.2	3912.2	4070.0	4207.0
25°	3427.3	3436.6	3614.2	3771.7	3938.3
27.5°	3130.7	3134.9	3318.5	3484.8	3662.5
30°	2928.3	2939.8	3119.9	3292.0	3477.0
32.5°	2725.8	2739.2	2915.5	3093.4	3282.1
35°	2422.1	2433.6	2597.1	2771.9	2968.5
37.5°	2108.9	2124.6	2269.8	2435.0	2628.3
40°	1906.4	1929.6	2057.8	2213.5	2403.2
42.5°	1711.5	1740.2	1859.1	2006.8	2178.0
45°	1452.3	1480.1	1577.7	1697.1	1852.0
47.5°	1229.0	1260.9	1335.9	1438.8	1571.0
50°	1102.2	1132.3	1201.6	1277.7	1402.6
52.5°	990.6	1020.7	1082.4	1141.1	1247.5
55°	835.0	869.6	920.1	955.0	1033.6
57.5°	707.2	740.5	780.6	796.3	843.9
60°	622.1	659.1	695.4	693.6	719.1
62.5°	544.5	575.9	612.1	587.1	588.5
65°	418.7	453.4	494.4	432.0	392.6
67.5°	338.2	345.6	387.9	301.2	254.5
70°	300.4	300.4	312.2	233.3	194.0
72.5°	264.4	264.4	253.6	189.7	148.5
75°	210.5	210.5	191.6	131.5	89.9
77.5°	162.3	160.4	146.6	98.1	65.3
80°	130.1	130.1	118.3	77.5	52.0
82.5°	101.7	101.7	91.8	60.5	38.8
85°	59.1	59.1	54.4	35.2	21.3
87.5°	21.8	23.6	24.6	17.4	15.6
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



TEST NUMBER: P519511

CATALOG NUMBER: SQ4-WB-125U-100D-930-1D-UNV-STD-W-12

**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)