

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: P563717

Luminaire Tested: **SQ4-PP3-125U-100D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563717  
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-100D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

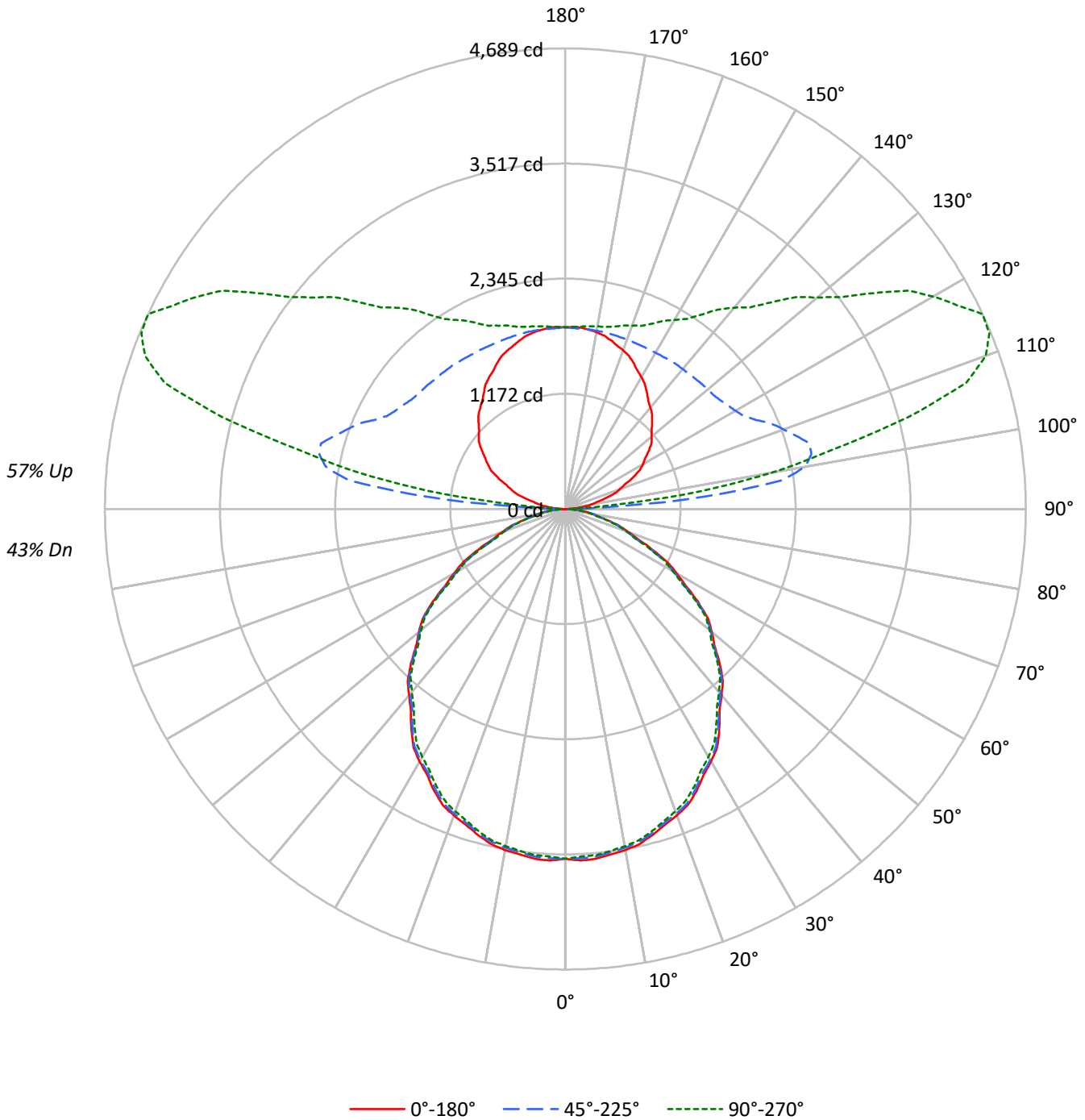
Lumens per Lamp: N/A  
Luminaire Lumens: 21052.5 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

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



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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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23
5	67	56	48	42	61	52	45	39	43	38	34	35	32	28	28	25	23	20
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16	14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

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

	0°	45°	90°
0°	10951	10951	10951
5°	11031	10963	10925
10°	11012	10934	10886
15°	10940	10880	10820
20°	10867	10806	10724
25°	10738	10664	10558
30°	10539	10484	10351
35°	10263	10193	10064
40°	9935	9872	9760
45°	9664	9596	9501
50°	9317	9257	9168
55°	8835	8718	8651
60°	8043	7812	7774
65°	7085	6790	6768
70°	6117	5864	5864
75°	5265	5191	5118
80°	4642	4699	4587
85°	3634	3963	3963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.7	1.6
10°-20°	961.4	4.6
20°-30°	1440.0	6.8
30°-40°	1689.1	8.0
40°-50°	1694.3	8.0
50°-60°	1445.4	6.9
60°-70°	942.7	4.5
70°-80°	472.9	2.2
80°-90°	135.2	0.6
90°-100°	864.9	4.1
100°-110°	2329.7	11.1
110°-120°	2444.9	11.6
120°-130°	1984.0	9.4
130°-140°	1556.0	7.4
140°-150°	1194.6	5.7
150°-160°	858.9	4.1
160°-170°	524.8	2.5
170°-180°	177.0	0.8
0°-30°	2738.1	13.0
0°-40°	4427.2	21.0
0°-60°	7566.9	35.9
0°-90°	9117.7	43.3
90°-120°	5639.5	26.8
90°-150°	10374.1	49.3
90°-180°	11935.0	56.7
0°-180°	21052.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3561	3561	3561	3561	3561	
5°	3573	3540	3551	3539	3539	339
15°	3436	3402	3417	3404	3398	969
25°	3164	3128	3142	3114	3111	1455
35°	2734	2706	2715	2684	2681	1708
45°	2222	2207	2206	2184	2184	1711
55°	1648	1642	1626	1616	1613	1464
65°	974	955	933	927	930	972
75°	443	443	437	434	431	481
85°	103	112	112	112	112	121
90°	5	14	28	31	31	13
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°	3560.7	3560.7	3560.7	3560.7	3560.7
2.5°	3583.2	3553.9	3560.7	3555.4	3540.7
5°	3573.2	3539.6	3551.3	3538.8	3538.8
7.5°	3548.8	3512.2	3523.9	3511.4	3510.8
10°	3526.4	3489.7	3501.4	3488.8	3485.8
12.5°	3493.9	3457.3	3471.4	3456.4	3455.8
15°	3435.9	3402.3	3417.1	3404.5	3398.4
17.5°	3370.3	3333.7	3351.6	3334.1	3331.6
20°	3320.4	3283.8	3301.7	3276.7	3276.7
22.5°	3260.5	3223.9	3244.3	3211.8	3211.8
25°	3164.4	3127.7	3142.5	3114.4	3111.3
27.5°	3050.1	3014.1	3029.5	2997.7	2997.1
30°	2967.8	2934.2	2952.2	2917.8	2914.7
32.5°	2877.9	2846.8	2859.8	2825.4	2822.3
35°	2733.7	2706.2	2715.0	2683.7	2680.7
37.5°	2582.0	2554.0	2563.9	2537.1	2535.9
40°	2474.7	2456.4	2459.1	2437.1	2431.0
42.5°	2374.8	2354.1	2356.7	2334.9	2333.6
45°	2221.9	2206.7	2206.3	2184.5	2184.5
47.5°	2059.6	2048.0	2044.7	2026.6	2025.9
50°	1947.3	1938.1	1934.8	1919.1	1916.1
52.5°	1830.0	1825.7	1815.0	1801.9	1801.3
55°	1647.7	1641.6	1625.9	1616.4	1613.4
57.5°	1449.9	1437.7	1419.9	1406.2	1408.7
60°	1307.6	1295.4	1270.1	1263.9	1263.9
62.5°	1170.3	1155.6	1130.3	1121.7	1126.6
65°	973.6	955.3	933.1	926.9	930.0
67.5°	795.1	778.7	754.6	754.5	752.1
70°	680.3	671.2	652.2	652.2	652.2
72.5°	577.9	573.7	559.8	559.8	557.4
75°	443.1	443.1	436.9	433.7	430.7
77.5°	332.0	333.3	330.2	326.9	321.4
80°	262.1	268.2	265.3	262.1	259.0
82.5°	197.2	203.3	202.8	197.2	196.6
85°	103.0	112.1	112.3	112.3	112.3
87.5°	28.4	40.0	45.6	46.1	48.6
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

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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)