

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: P565037

Luminaire Tested: **SQ4-PW1-125U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565037
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-075D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 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: 18723.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

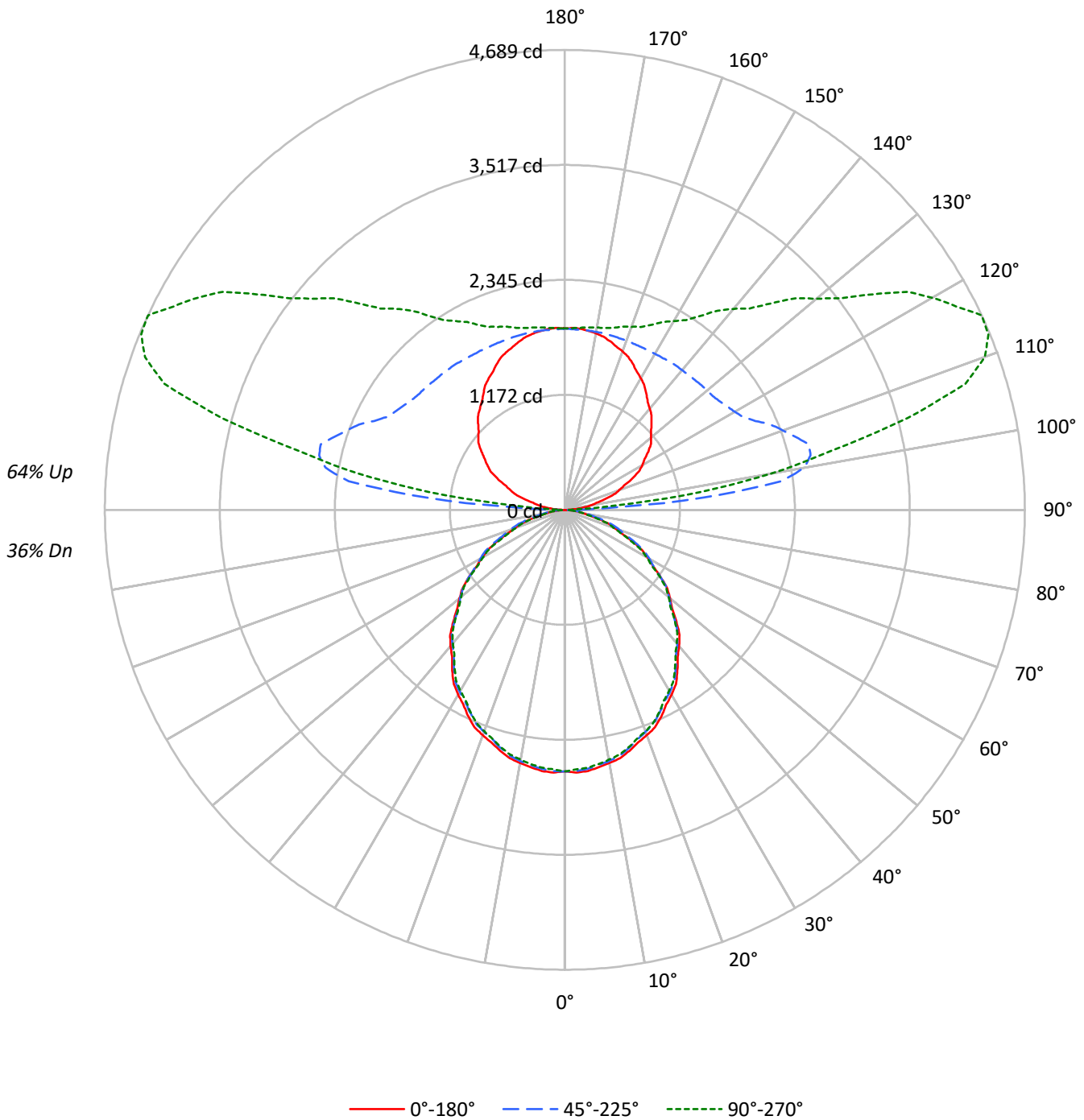
Input Watts (W): 172.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	32	31	26
3	79	70	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	28	29	25	23	22	19	18	14
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8200	8200	8200
5°	8253	8188	8152
10°	8187	8121	8077
15°	8100	8011	7981
20°	8004	7881	7865
25°	7892	7748	7725
30°	7725	7608	7558
35°	7506	7400	7356
40°	7271	7159	7130
45°	6989	6897	6866
50°	6699	6643	6598
55°	6386	6386	6286
60°	5996	6112	5896
65°	5488	5761	5351
70°	4838	5303	4711
75°	4132	4746	4020
80°	3204	3994	3245
85°	2071	3066	2735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.1	1.3
10°-20°	708.9	3.8
20°-30°	1051.5	5.6
30°-40°	1230.3	6.6
40°-50°	1224.8	6.5
50°-60°	1057.7	5.6
60°-70°	761.4	4.1
70°-80°	399.3	2.1
80°-90°	103.3	0.6
90°-100°	864.9	4.6
100°-110°	2329.7	12.4
110°-120°	2444.9	13.1
120°-130°	1984.0	10.6
130°-140°	1556.0	8.3
140°-150°	1194.6	6.4
150°-160°	858.9	4.6
160°-170°	524.8	2.8
170°-180°	177.0	0.9
0°-30°	2011.4	10.7
0°-40°	3241.8	17.3
0°-60°	5524.3	29.5
0°-90°	6788.3	36.3
90°-120°	5639.5	30.1
90°-150°	10374.1	55.4
90°-180°	11935.0	63.7
0°-180°	18723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2666	2666	2666	2666	2666	
5°	2673	2644	2652	2645	2640	253
15°	2544	2512	2516	2511	2507	717
25°	2326	2287	2283	2270	2276	1069
35°	1999	1972	1971	1952	1959	1250
45°	1607	1593	1586	1581	1579	1240
55°	1191	1189	1191	1175	1172	1063
65°	754	777	792	761	735	747
75°	348	380	399	373	338	373
85°	59	77	87	82	78	78
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°	2666.4	2666.4	2666.4	2666.4	2666.4
2.5°	2681.4	2659.3	2666.4	2660.4	2647.6
5°	2673.4	2643.5	2652.3	2645.1	2640.5
7.5°	2646.2	2618.6	2625.0	2617.4	2614.7
10°	2621.7	2594.2	2600.6	2591.1	2586.5
12.5°	2593.5	2564.1	2570.5	2561.1	2558.3
15°	2544.2	2512.0	2516.0	2511.2	2506.6
17.5°	2486.9	2454.3	2454.9	2447.4	2446.5
20°	2445.5	2411.1	2407.9	2398.7	2403.3
22.5°	2400.4	2364.1	2361.0	2348.0	2354.4
25°	2325.7	2286.7	2283.4	2269.5	2276.4
27.5°	2239.3	2200.7	2200.7	2181.2	2188.5
30°	2175.4	2138.6	2142.5	2119.2	2128.4
32.5°	2107.7	2074.6	2076.7	2053.4	2062.6
35°	1999.2	1971.6	1971.0	1952.4	1959.2
37.5°	1888.3	1864.0	1860.1	1849.3	1851.2
40°	1811.2	1790.6	1783.1	1776.0	1776.0
42.5°	1730.4	1711.6	1704.1	1698.9	1697.1
45°	1606.9	1593.1	1585.7	1581.0	1578.7
47.5°	1484.7	1471.8	1465.4	1462.1	1459.8
50°	1400.1	1390.9	1388.4	1381.3	1379.0
52.5°	1315.6	1310.0	1307.6	1298.6	1296.3
55°	1191.1	1188.8	1191.1	1174.6	1172.3
57.5°	1061.4	1065.1	1072.7	1050.4	1044.9
60°	974.9	984.1	993.7	967.7	958.5
62.5°	886.6	901.3	914.8	884.9	872.0
65°	754.1	777.1	791.7	760.6	735.3
67.5°	626.3	654.8	672.3	638.8	610.3
70°	538.0	570.1	589.7	556.0	523.9
72.5°	460.9	496.8	512.6	480.9	448.7
75°	347.7	379.8	399.4	372.7	338.3
77.5°	246.7	277.0	293.2	270.0	241.5
80°	180.9	213.0	225.5	206.2	183.2
82.5°	128.3	154.9	163.5	151.9	136.3
85°	58.7	77.1	86.9	82.1	77.5
87.5°	16.0	30.7	41.4	41.9	43.7
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)