

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: P564968

Luminaire Tested: **SQ4-PW1-100U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564968
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PW1-100U-100D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

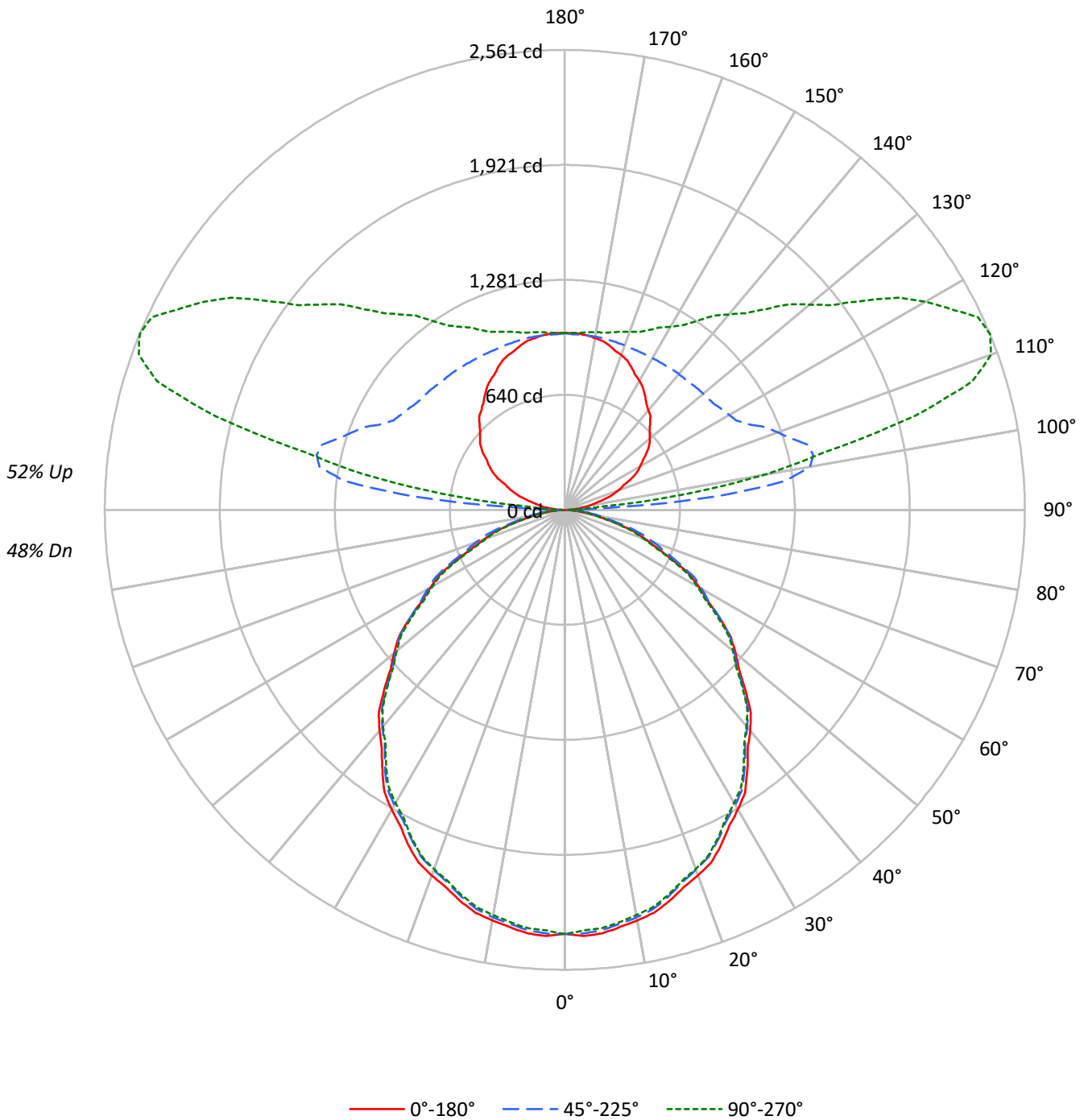
Lumens per Lamp: N/A
Luminaire Lumens: 12403.2 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 121.2
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48
1	98	93	89	86	90	86	83	80	72	70	68	60	58	57	49	47	46	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	47	47	43	40	38	36	33	29
4	74	63	56	50	68	59	52	47	50	45	40	42	38	35	34	31	29	25
5	68	57	48	43	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	35	30	36	31	27	31	26	23	25	22	20	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	21	18	16	14
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10896	10896	10896
5°	10966	10879	10831
10°	10878	10791	10732
15°	10763	10644	10604
20°	10635	10471	10451
25°	10486	10296	10263
30°	10265	10109	10043
35°	9973	9832	9774
40°	9662	9511	9474
45°	9286	9163	9123
50°	8901	8826	8766
55°	8485	8485	8352
60°	7968	8121	7833
65°	7292	7655	7109
70°	6427	7045	6260
75°	5490	6306	5342
80°	4256	5308	4312
85°	2752	4076	3636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.4	1.8
10°-20°	627.9	5.1
20°-30°	931.4	7.5
30°-40°	1089.8	8.8
40°-50°	1085.0	8.7
50°-60°	936.9	7.6
60°-70°	674.4	5.4
70°-80°	353.7	2.9
80°-90°	89.7	0.7
90°-100°	460.7	3.7
100°-110°	1271.9	10.3
110°-120°	1311.7	10.6
120°-130°	1054.1	8.5
130°-140°	828.4	6.7
140°-150°	635.3	5.1
150°-160°	456.6	3.7
160°-170°	279.2	2.3
170°-180°	94.1	0.8
0°-30°	1781.7	14.4
0°-40°	2871.6	23.2
0°-60°	4893.5	39.5
0°-90°	6011.2	48.5
90°-120°	3044.3	24.5
90°-150°	5562.0	44.8
90°-180°	6392.0	51.5
0°-180°	12403.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2362	2362	2362	2362	2362	
5°	2368	2342	2349	2343	2339	224
15°	2254	2225	2229	2224	2220	635
25°	2060	2026	2023	2010	2016	947
35°	1771	1746	1746	1729	1736	1107
45°	1423	1411	1405	1400	1398	1098
55°	1055	1053	1055	1040	1038	941
65°	668	688	701	674	651	662
75°	308	336	354	330	300	330
85°	52	68	77	73	69	69
90°	3	6	13	14	16	7
95°	68	249	836	344	224	72
105°	227	350	1399	2136	2012	241
115°	406	491	1127	2231	2537	399
125°	557	634	1022	1729	2029	496
135°	670	743	993	1400	1579	519
145°	778	831	981	1192	1283	487
155°	877	906	973	1070	1103	404
165°	949	962	978	1015	1023	268
175°	984	985	979	993	990	93
180°	984	984	984	984	984	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2361.9	2361.9	2361.9	2361.9	2361.9
2.5°	2375.2	2355.7	2361.9	2356.6	2345.2
5°	2368.1	2341.7	2349.4	2343.0	2339.0
7.5°	2344.0	2319.6	2325.2	2318.5	2316.1
10°	2322.3	2297.9	2303.6	2295.2	2291.1
12.5°	2297.4	2271.3	2277.0	2268.6	2266.1
15°	2253.7	2225.2	2228.7	2224.4	2220.4
17.5°	2202.9	2174.0	2174.6	2167.9	2167.1
20°	2166.3	2135.7	2133.0	2124.7	2128.8
22.5°	2126.3	2094.2	2091.3	2079.8	2085.5
25°	2060.1	2025.5	2022.7	2010.3	2016.4
27.5°	1983.6	1949.4	1949.4	1932.1	1938.6
30°	1927.0	1894.4	1897.8	1877.2	1885.3
32.5°	1867.0	1837.7	1839.6	1818.9	1827.1
35°	1770.9	1746.5	1745.9	1729.4	1735.5
37.5°	1672.7	1651.1	1647.7	1638.2	1639.8
40°	1604.4	1586.1	1579.4	1573.2	1573.2
42.5°	1532.8	1516.1	1509.5	1504.9	1503.3
45°	1423.4	1411.2	1404.6	1400.4	1398.4
47.5°	1315.2	1303.8	1298.1	1295.1	1293.1
50°	1240.2	1232.1	1229.8	1223.5	1221.5
52.5°	1165.3	1160.4	1158.3	1150.3	1148.3
55°	1055.0	1053.0	1055.0	1040.4	1038.4
57.5°	940.2	943.4	950.2	930.5	925.6
60°	863.6	871.7	880.2	857.2	849.0
62.5°	785.3	798.4	810.3	783.8	772.4
65°	668.0	688.3	701.3	673.7	651.3
67.5°	554.8	580.0	595.6	565.9	540.6
70°	476.5	505.0	522.3	492.5	464.1
72.5°	408.3	440.0	454.1	425.9	397.5
75°	308.0	336.5	353.8	330.2	299.7
77.5°	218.5	245.4	259.7	239.2	213.9
80°	160.2	188.7	199.8	182.7	162.3
82.5°	113.6	137.2	144.8	134.5	120.7
85°	52.0	68.3	77.0	72.7	68.7
87.5°	13.9	26.0	34.1	34.5	36.4
90°	3.1	6.2	12.6	14.2	15.7
92.5°	28.3	117.6	210.3	76.7	59.8
95°	67.7	249.3	835.8	343.6	223.5
97.5°	112.1	279.2	1238.1	953.2	690.4
100°	144.8	297.2	1386.7	1396.5	1134.9
102.5°	176.3	317.6	1415.7	1725.5	1477.4
105°	226.7	349.8	1399.3	2136.3	2011.6
107.5°	280.2	389.8	1321.2	2334.4	2379.9
110°	318.0	416.5	1260.8	2377.0	2524.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	352.0	446.8	1204.1	2343.3	2561.3
115°	406.1	490.7	1127.0	2231.1	2537.3
117.5°	453.3	537.7	1076.3	2073.0	2421.5
120°	484.8	567.9	1056.2	1966.1	2317.0
122.5°	515.0	594.4	1039.8	1866.2	2198.6
125°	557.2	634.2	1021.5	1728.8	2028.9
127.5°	593.1	670.0	1010.8	1612.7	1871.5
130°	617.0	694.0	1005.8	1541.6	1777.1
132.5°	639.7	712.9	1000.8	1481.9	1695.2
135°	670.5	742.9	993.2	1400.2	1578.8
137.5°	705.2	771.0	989.4	1331.6	1484.0
140°	724.1	788.7	986.9	1285.9	1419.8
142.5°	745.5	805.2	984.4	1245.2	1363.1
145°	777.6	831.4	980.6	1192.0	1282.8
147.5°	808.4	855.5	977.2	1147.2	1217.7
150°	831.1	869.6	975.9	1120.4	1177.4
152.5°	848.7	884.7	974.6	1097.5	1144.6
155°	876.7	906.0	972.7	1069.5	1103.4
157.5°	902.5	925.0	973.1	1049.1	1072.2
160°	917.7	937.7	974.3	1037.7	1054.6
162.5°	930.3	947.8	975.6	1027.5	1040.7
165°	949.1	961.5	977.5	1015.4	1023.1
167.5°	963.6	971.0	979.0	1008.1	1010.5
170°	971.2	977.3	979.0	1004.2	1004.2
172.5°	977.5	981.2	979.0	999.2	997.9
175°	983.8	985.3	979.0	993.1	990.1
177.5°	986.3	985.1	978.7	987.5	985.0
180°	983.8	983.8	983.8	983.8	983.8

(END OF REPORT)