

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: P564972

Luminaire Tested: **SQ4-PW1-100U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564972  
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-935-1D-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

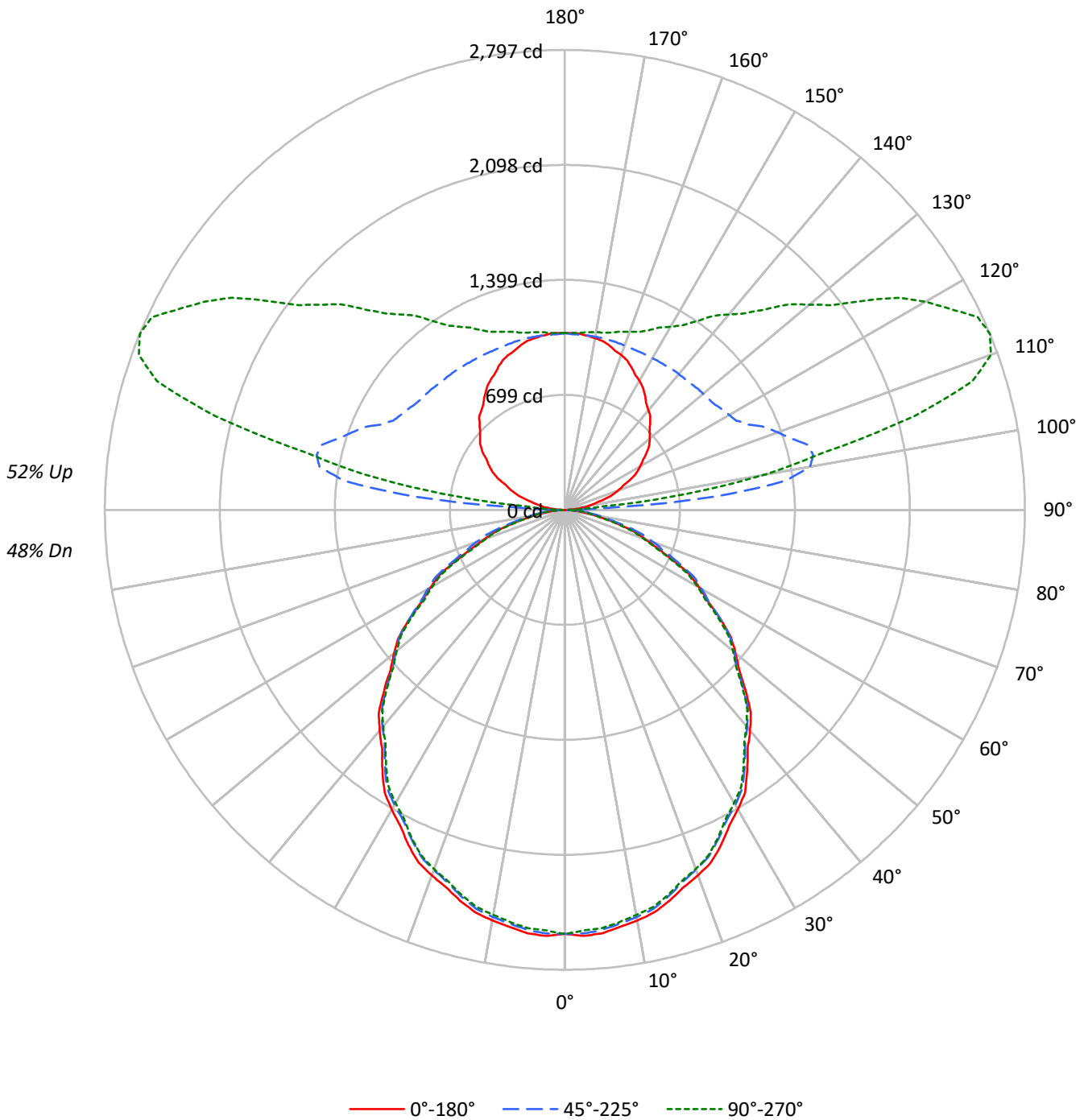
Lumens per Lamp: N/A  
Luminaire Lumens: 13543.2 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

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°	11897	11897	11897
5°	11974	11879	11827
10°	11878	11782	11719
15°	11752	11622	11579
20°	11612	11433	11411
25°	11450	11242	11207
30°	11208	11038	10966
35°	10889	10736	10672
40°	10550	10385	10345
45°	10139	10006	9961
50°	9719	9638	9572
55°	9265	9265	9119
60°	8700	8867	8554
65°	7962	8358	7763
70°	7018	7692	6834
75°	5994	6885	5832
80°	4649	5794	4707
85°	3006	4451	3970



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.8	1.8
10°-20°	685.6	5.1
20°-30°	1017.0	7.5
30°-40°	1190.0	8.8
40°-50°	1184.7	8.7
50°-60°	1023.0	7.6
60°-70°	736.4	5.4
70°-80°	386.2	2.9
80°-90°	98.0	0.7
90°-100°	503.0	3.7
100°-110°	1388.8	10.3
110°-120°	1432.3	10.6
120°-130°	1150.9	8.5
130°-140°	904.5	6.7
140°-150°	693.7	5.1
150°-160°	498.6	3.7
160°-170°	304.9	2.3
170°-180°	102.8	0.8
0°-30°	1945.5	14.4
0°-40°	3135.5	23.2
0°-60°	5343.2	39.5
0°-90°	6563.7	48.5
90°-120°	3324.1	24.5
90°-150°	6073.2	44.8
90°-180°	6979.0	51.5
0°-180°	13543.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2579	2579	2579	2579	2579	
5°	2586	2557	2565	2558	2554	245
15°	2461	2430	2434	2429	2424	694
25°	2250	2212	2209	2195	2202	1034
35°	1934	1907	1906	1888	1895	1209
45°	1554	1541	1534	1529	1527	1199
55°	1152	1150	1152	1136	1134	1028
65°	729	752	766	736	711	723
75°	336	367	386	360	327	360
85°	57	75	84	79	75	75
90°	3	7	14	16	17	7
95°	74	272	913	375	244	79
105°	248	382	1528	2333	2196	263
115°	443	536	1231	2436	2770	436
125°	608	692	1115	1888	2215	541
135°	732	811	1084	1529	1724	566
145°	849	908	1071	1302	1401	532
155°	957	989	1062	1168	1205	441
165°	1036	1050	1067	1109	1117	292
175°	1074	1076	1069	1084	1081	102
180°	1074	1074	1074	1074	1074	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2578.9	2578.9	2578.9	2578.9	2578.9
2.5°	2593.5	2572.2	2578.9	2573.2	2560.8
5°	2585.8	2556.9	2565.3	2558.4	2554.0
7.5°	2559.4	2532.7	2539.0	2531.6	2529.0
10°	2535.8	2509.1	2515.3	2506.1	2501.7
12.5°	2508.5	2480.1	2486.2	2477.1	2474.4
15°	2460.8	2429.7	2433.5	2428.9	2424.4
17.5°	2405.4	2373.8	2374.5	2367.2	2366.3
20°	2365.4	2332.0	2329.0	2320.0	2324.5
22.5°	2321.7	2286.6	2283.6	2271.0	2277.2
25°	2249.5	2211.7	2208.6	2195.1	2201.8
27.5°	2165.9	2128.5	2128.6	2109.7	2116.8
30°	2104.1	2068.5	2072.2	2049.7	2058.6
32.5°	2038.6	2006.6	2008.6	1986.1	1995.0
35°	1933.6	1907.0	1906.4	1888.4	1895.0
37.5°	1826.4	1802.8	1799.1	1788.7	1790.5
40°	1751.9	1731.9	1724.6	1717.8	1717.8
42.5°	1673.7	1655.5	1648.3	1643.2	1641.4
45°	1554.2	1540.9	1533.7	1529.1	1526.9
47.5°	1436.0	1423.6	1417.4	1414.2	1411.9
50°	1354.2	1345.3	1342.9	1336.0	1333.8
52.5°	1272.4	1267.1	1264.7	1256.0	1253.8
55°	1152.0	1149.8	1152.0	1136.1	1133.8
57.5°	1026.6	1030.1	1037.5	1016.0	1010.7
60°	943.0	951.9	961.1	935.9	927.1
62.5°	857.5	871.7	884.8	855.9	843.4
65°	729.4	751.6	765.7	735.6	711.2
67.5°	605.8	633.3	650.3	617.9	590.3
70°	520.3	551.4	570.3	537.8	506.7
72.5°	445.8	480.5	495.8	465.1	434.0
75°	336.3	367.4	386.3	360.5	327.2
77.5°	238.6	267.9	283.6	261.1	233.6
80°	175.0	206.1	218.1	199.4	177.2
82.5°	124.1	149.8	158.1	146.9	131.8
85°	56.8	74.6	84.1	79.4	75.0
87.5°	15.2	28.3	37.3	37.7	39.8
90°	3.4	6.8	13.7	15.5	17.2
92.5°	30.9	128.4	229.6	83.8	65.3
95°	73.9	272.2	912.6	375.1	244.1
97.5°	122.4	304.9	1351.9	1040.9	753.8
100°	158.1	324.5	1514.2	1524.9	1239.2
102.5°	192.5	346.8	1545.8	1884.1	1613.2
105°	247.5	381.9	1527.9	2332.6	2196.5
107.5°	305.9	425.6	1442.7	2548.9	2598.7
110°	347.2	454.7	1376.7	2595.5	2756.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	384.3	487.8	1314.8	2558.7	2796.7
115°	443.4	535.9	1230.6	2436.1	2770.5
117.5°	495.0	587.1	1175.2	2263.6	2644.0
120°	529.4	620.1	1153.2	2146.8	2529.9
122.5°	562.4	649.1	1135.4	2037.7	2400.7
125°	608.4	692.4	1115.4	1887.7	2215.4
127.5°	647.6	731.6	1103.7	1760.9	2043.5
130°	673.7	757.8	1098.2	1683.3	1940.4
132.5°	698.5	778.5	1092.7	1618.1	1851.0
135°	732.2	811.1	1084.5	1528.9	1723.9
137.5°	770.0	841.9	1080.4	1454.0	1620.4
140°	790.6	861.2	1077.6	1404.1	1550.3
142.5°	814.0	879.2	1074.9	1359.7	1488.4
145°	849.0	907.9	1070.7	1301.6	1400.7
147.5°	882.7	934.1	1067.0	1252.6	1329.6
150°	907.5	949.5	1065.6	1223.4	1285.6
152.5°	926.7	966.0	1064.2	1198.4	1249.8
155°	957.3	989.2	1062.2	1167.8	1204.8
157.5°	985.5	1010.0	1062.5	1145.6	1170.8
160°	1002.0	1023.8	1063.9	1133.0	1151.5
162.5°	1015.8	1034.9	1065.2	1122.0	1136.4
165°	1036.4	1049.8	1067.3	1108.8	1117.2
167.5°	1052.2	1060.3	1069.0	1100.7	1103.4
170°	1060.4	1067.2	1069.0	1096.5	1096.5
172.5°	1067.3	1071.3	1069.0	1091.0	1089.7
175°	1074.2	1075.9	1069.0	1084.4	1081.1
177.5°	1076.9	1075.6	1068.7	1078.2	1075.6
180°	1074.2	1074.2	1074.2	1074.2	1074.2

(END OF REPORT)