

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: P564300

Luminaire Tested: **SQ4-PR1-100U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564300
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-100U-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

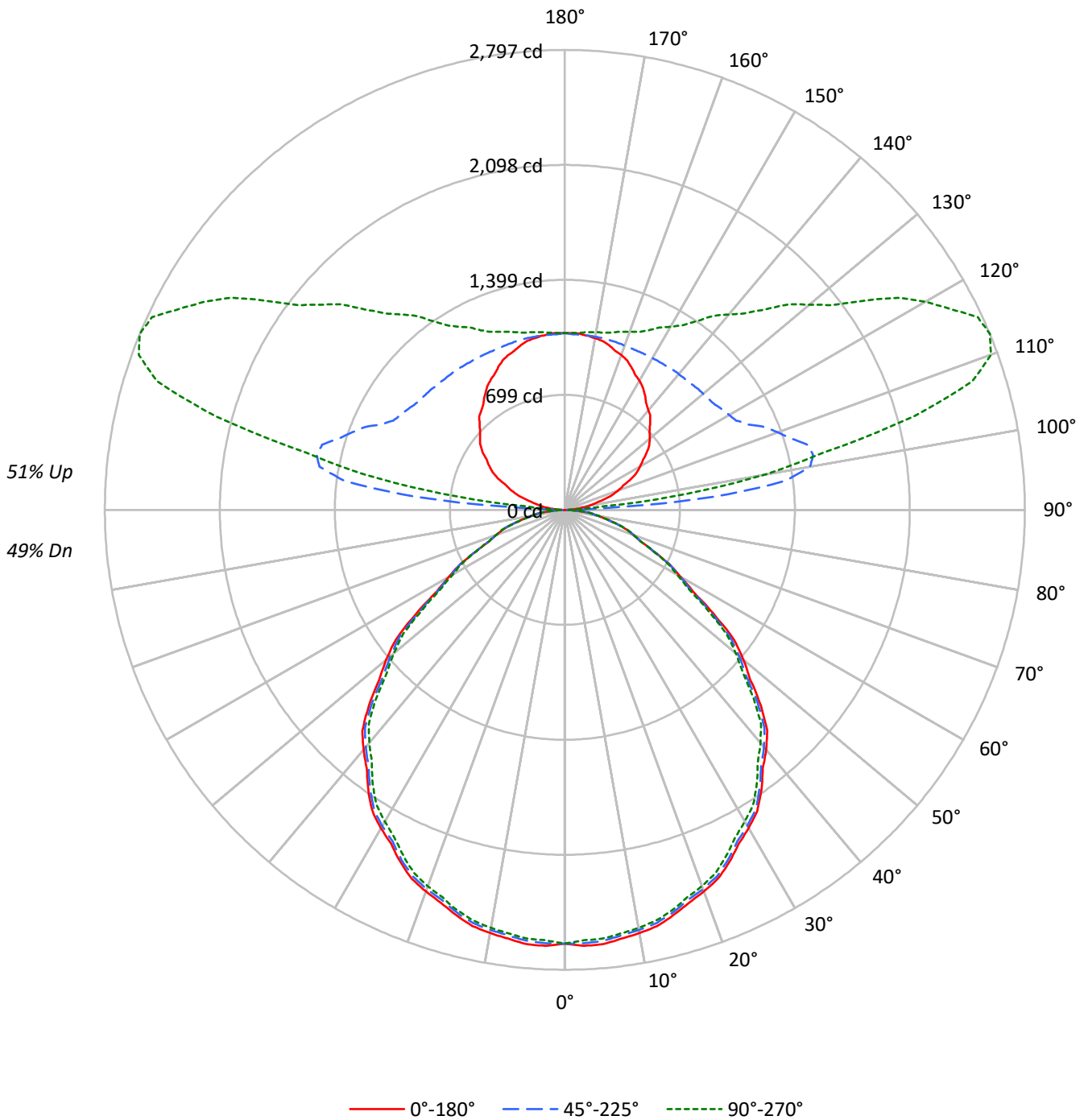
Lumens per Lamp: N/A
Luminaire Lumens: 13576.5 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				
1	98	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41				
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	42	40	35				
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	69	59	53	47	51	45	41	42	39	35	35	32	30	26				
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23				
6	63	51	43	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	28	34	28	25	29	24	21	24	21	18	16				
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14				
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12169	12169	12169
5°	12279	12184	12121
10°	12240	12155	12091
15°	12186	12111	12045
20°	12125	12047	11958
25°	12040	11958	11820
30°	11910	11825	11655
35°	11734	11631	11465
40°	11466	11343	11138
45°	10999	10806	10584
50°	10175	9931	9735
55°	8882	8680	8498
60°	7484	7422	7275
65°	6473	6498	6449
70°	5945	5976	5976
75°	5711	5711	5752
80°	5372	5433	5372
85°	4330	4811	4811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.5	1.8
10°-20°	713.7	5.3
20°-30°	1076.5	7.9
30°-40°	1282.7	9.4
40°-50°	1264.6	9.3
50°-60°	966.5	7.1
60°-70°	598.1	4.4
70°-80°	339.7	2.5
80°-90°	105.6	0.8
90°-100°	503.0	3.7
100°-110°	1388.8	10.2
110°-120°	1432.3	10.5
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	2.2
170°-180°	102.8	0.8
0°-30°	2039.8	15.0
0°-40°	3322.5	24.5
0°-60°	5553.6	40.9
0°-90°	6597.0	48.6
90°-120°	3324.1	24.5
90°-150°	6073.2	44.7
90°-180°	6979.0	51.4
0°-180°	13576.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2638	2638	2638	2638	2638	
5°	2652	2623	2631	2622	2618	252
15°	2552	2525	2536	2527	2522	720
25°	2365	2336	2349	2324	2322	1089
35°	2084	2059	2065	2038	2036	1300
45°	1686	1664	1656	1627	1622	1292
55°	1104	1086	1079	1061	1057	989
65°	593	589	595	591	591	601
75°	320	320	320	323	323	338
85°	82	86	91	91	91	95
90°	3	7	14	16	17	8
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°	2638.0	2638.0	2638.0	2638.0	2638.0
2.5°	2654.4	2631.3	2638.0	2632.3	2619.8
5°	2651.7	2622.8	2631.2	2622.0	2617.6
7.5°	2631.2	2602.8	2611.2	2602.1	2599.4
10°	2613.0	2586.4	2594.8	2585.7	2581.2
12.5°	2593.0	2564.6	2574.9	2563.8	2559.4
15°	2551.7	2525.0	2535.8	2526.6	2522.1
17.5°	2506.2	2477.8	2488.5	2477.9	2472.1
20°	2469.9	2443.2	2454.0	2438.0	2435.8
22.5°	2429.9	2403.2	2414.0	2392.6	2392.2
25°	2365.4	2336.5	2349.4	2324.4	2322.2
27.5°	2288.6	2261.9	2272.6	2247.1	2244.5
30°	2235.8	2209.2	2219.9	2192.6	2188.1
32.5°	2175.9	2151.0	2159.9	2132.6	2130.0
35°	2083.6	2059.2	2065.4	2038.1	2035.9
37.5°	1978.6	1956.4	1960.0	1930.0	1927.7
40°	1904.1	1881.9	1883.6	1851.8	1849.6
42.5°	1822.3	1800.1	1798.2	1766.4	1764.1
45°	1686.0	1663.8	1656.4	1626.8	1622.3
47.5°	1530.6	1508.3	1494.6	1470.5	1467.4
50°	1417.8	1395.6	1383.8	1363.2	1356.5
52.5°	1296.1	1273.8	1263.8	1245.0	1238.3
55°	1104.3	1086.5	1079.3	1061.0	1056.6
57.5°	922.1	910.1	908.0	890.2	888.4
60°	811.2	804.5	804.4	788.5	788.5
62.5°	716.7	711.8	715.3	704.8	703.0
65°	593.0	588.6	595.3	590.8	590.8
67.5°	495.3	495.3	499.4	497.6	497.6
70°	440.8	440.8	443.1	443.1	443.1
72.5°	391.7	389.9	395.8	395.8	394.0
75°	320.4	320.4	320.4	322.7	322.7
77.5°	249.5	249.9	251.8	251.3	249.5
80°	202.2	204.4	204.5	202.2	202.2
82.5°	155.0	157.2	157.2	156.7	155.0
85°	81.8	86.2	90.9	90.9	90.9
87.5°	24.3	32.1	39.1	39.4	38.0
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)