

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: P564085

Luminaire Tested: **SQ4-PR1-075U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564085  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-075D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

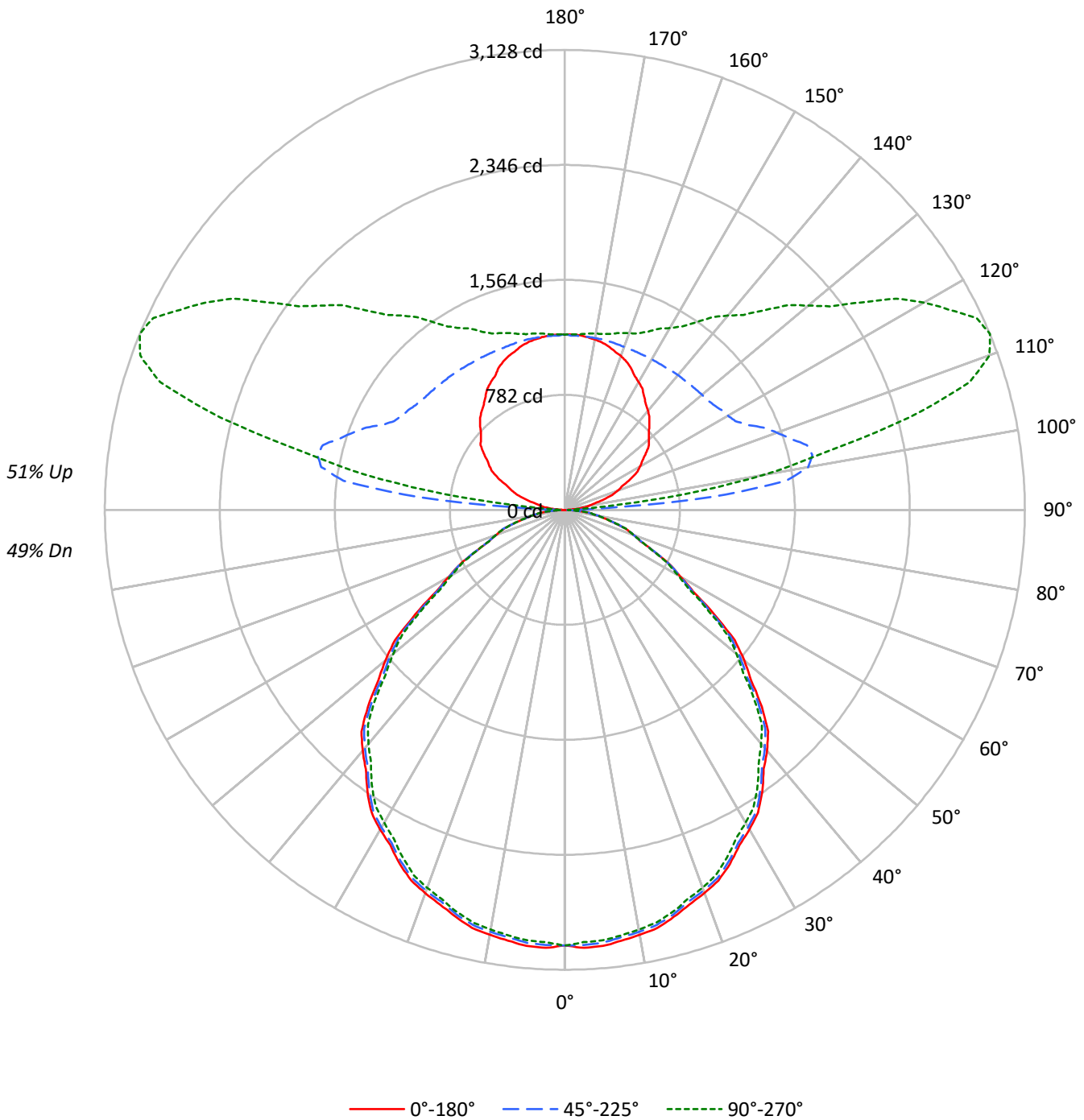
Lumens per Lamp: N/A  
Luminaire Lumens: 15174.4 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 133.4  
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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				49
1	98	94	90	86	90	86	83	80	73	71	68	60	59	57	49	48	47				42	
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	44	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	36	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	35	30	27	29	25	23				20	
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21				18	
8	54	42	35	29	50	39	32	28	34	28	25	29	25	21	24	21	18				16	
9	51	39	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	21	17	15				13	

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

	0°	45°	90°
0°	9112	9112	9112
5°	9194	9123	9076
10°	9165	9102	9054
15°	9125	9068	9019
20°	9079	9021	8954
25°	9015	8955	8850
30°	8918	8854	8728
35°	8786	8710	8585
40°	8586	8494	8340
45°	8236	8092	7925
50°	7619	7436	7290
55°	6650	6500	6363
60°	5604	5557	5447
65°	4847	4866	4828
70°	4452	4475	4475
75°	4275	4275	4306
80°	4022	4068	4022
85°	3243	3603	3603



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.2	1.8
10°-20°	801.7	5.3
20°-30°	1209.2	8.0
30°-40°	1440.7	9.5
40°-50°	1420.4	9.4
50°-60°	1085.6	7.2
60°-70°	671.8	4.4
70°-80°	381.5	2.5
80°-90°	119.1	0.8
90°-100°	562.1	3.7
100°-110°	1546.5	10.2
110°-120°	1596.3	10.5
120°-130°	1279.0	8.4
130°-140°	1004.5	6.6
140°-150°	769.8	5.1
150°-160°	553.5	3.6
160°-170°	338.4	2.2
170°-180°	114.1	0.8
0°-30°	2291.0	15.1
0°-40°	3731.7	24.6
0°-60°	6237.7	41.1
0°-90°	7410.2	48.8
90°-120°	3704.9	24.4
90°-150°	6758.2	44.5
90°-180°	7764.0	51.2
0°-180°	15174.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2963	2963	2963	2963	2963	
5°	2978	2946	2955	2945	2940	283
15°	2866	2836	2848	2838	2833	809
25°	2657	2624	2639	2611	2608	1223
35°	2340	2313	2320	2289	2287	1461
45°	1894	1869	1860	1827	1822	1451
55°	1240	1220	1212	1192	1187	1111
65°	666	661	669	664	664	675
75°	360	360	360	362	362	380
85°	92	97	102	102	102	107
90°	2	10	18	23	23	9
95°	84	307	994	425	271	88
105°	276	425	1704	2595	2422	291
115°	489	596	1367	2722	3089	483
125°	674	769	1240	2098	2457	602
135°	814	903	1204	1696	1920	628
145°	941	1005	1187	1445	1557	590
155°	1065	1100	1179	1299	1336	489
165°	1151	1166	1184	1233	1240	324
175°	1192	1194	1187	1202	1199	113
180°	1192	1192	1192	1192	1192	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2963.0	2963.0	2963.0	2963.0	2963.0
2.5°	2981.4	2955.4	2963.0	2956.5	2942.6
5°	2978.3	2945.9	2955.3	2945.0	2940.0
7.5°	2955.3	2923.4	2932.9	2922.6	2919.6
10°	2934.9	2905.0	2914.5	2904.2	2899.2
12.5°	2912.5	2880.5	2892.0	2879.7	2874.7
15°	2866.0	2836.1	2848.1	2837.8	2832.8
17.5°	2815.0	2783.0	2795.1	2783.2	2776.7
20°	2774.1	2744.2	2756.3	2738.3	2735.9
22.5°	2729.2	2699.3	2711.4	2687.4	2686.9
25°	2656.7	2624.3	2638.9	2610.7	2608.2
27.5°	2570.5	2540.5	2552.6	2524.0	2521.0
30°	2511.3	2481.3	2493.4	2462.7	2457.7
32.5°	2443.9	2415.9	2426.0	2395.3	2392.3
35°	2340.3	2312.8	2319.9	2289.2	2286.7
37.5°	2222.4	2197.4	2201.4	2167.7	2165.2
40°	2138.7	2113.7	2115.7	2079.9	2077.4
42.5°	2046.8	2021.8	2019.7	1983.9	1981.5
45°	1893.7	1868.7	1860.5	1827.2	1822.2
47.5°	1719.1	1694.1	1678.8	1651.6	1648.1
50°	1592.5	1567.6	1554.2	1531.1	1523.6
52.5°	1455.7	1430.8	1419.5	1398.4	1390.9
55°	1240.3	1220.4	1212.2	1191.7	1186.7
57.5°	1035.6	1022.2	1019.8	999.9	997.9
60°	911.1	903.6	903.4	885.6	885.6
62.5°	804.9	799.4	803.4	791.6	789.6
65°	666.1	661.1	668.7	663.5	663.5
67.5°	556.4	556.4	561.0	558.9	558.9
70°	495.1	495.1	497.7	497.7	497.7
72.5°	440.0	438.0	444.6	444.5	442.5
75°	359.8	359.8	359.8	362.4	362.4
77.5°	280.2	280.7	282.8	282.2	280.2
80°	227.1	229.6	229.7	227.1	227.1
82.5°	174.1	176.5	176.6	176.0	174.1
85°	91.9	96.9	102.1	102.1	102.1
87.5°	27.0	36.5	44.4	45.4	43.4
90°	2.5	10.0	17.8	22.8	22.8
92.5°	35.0	149.5	259.2	99.5	81.7
95°	83.7	306.8	994.0	425.1	271.3
97.5°	136.4	340.2	1516.9	1168.8	824.6
100°	175.0	360.9	1681.2	1696.9	1384.5
102.5°	211.5	385.5	1723.8	2105.3	1818.7
105°	276.4	425.2	1704.0	2595.2	2421.7
107.5°	338.3	474.1	1607.2	2835.2	2886.7
110°	382.9	506.9	1534.1	2894.8	3073.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	423.5	543.5	1461.1	2856.4	3128.1
115°	489.4	596.0	1366.8	2721.6	3088.6
117.5°	552.3	650.5	1306.9	2532.5	2947.6
120°	590.8	685.1	1280.6	2390.8	2819.8
122.5°	625.3	719.5	1262.3	2266.6	2673.7
125°	674.5	768.7	1240.0	2097.7	2457.2
127.5°	721.2	810.9	1225.3	1956.7	2272.1
130°	745.5	837.3	1217.2	1872.9	2160.5
132.5°	773.9	865.7	1211.1	1799.2	2059.1
135°	814.0	903.2	1204.5	1696.4	1919.6
137.5°	851.5	934.3	1198.9	1613.4	1797.4
140°	879.9	956.8	1196.9	1558.2	1724.3
142.5°	904.3	975.2	1192.8	1509.0	1651.3
145°	940.8	1005.2	1186.7	1445.4	1557.0
147.5°	979.8	1035.4	1183.7	1389.1	1478.4
150°	1004.2	1053.8	1181.7	1358.2	1427.6
152.5°	1026.5	1072.1	1179.6	1331.6	1389.1
155°	1065.0	1099.7	1179.1	1299.2	1336.4
157.5°	1092.9	1121.2	1179.1	1272.5	1298.3
160°	1113.2	1135.5	1179.1	1258.2	1278.0
162.5°	1129.4	1147.8	1181.2	1245.9	1261.8
165°	1151.2	1166.1	1184.2	1232.6	1240.0
167.5°	1166.5	1177.9	1186.7	1221.3	1223.3
170°	1176.6	1184.0	1186.7	1217.2	1217.2
172.5°	1184.7	1188.2	1186.7	1211.0	1209.1
175°	1191.8	1194.3	1186.7	1201.9	1199.4
177.5°	1193.8	1193.8	1185.7	1197.8	1193.8
180°	1191.8	1191.8	1191.8	1191.8	1191.8

(END OF REPORT)