

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: P562741

Luminaire Tested: **SQ4-PC3-075U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562741  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-075U-075D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID 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: 15289.6 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

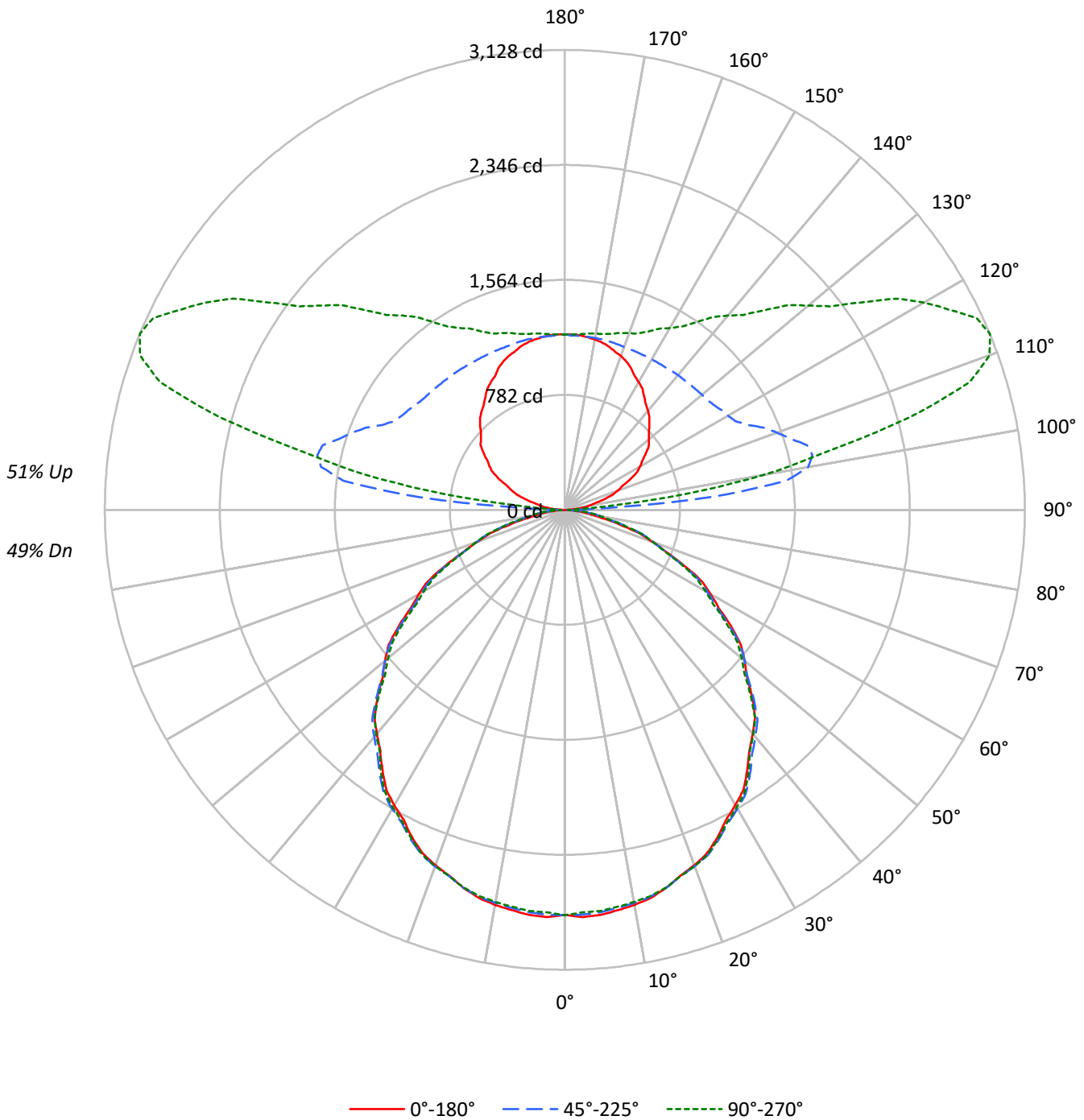
Input Watts (W): 133.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	99	99	99	99	83	83	83	69	69	69	55	55	55	49				49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47				42	
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	40				35	
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34				29	
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29				25	
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25				22	
6	63	51	42	37	58	47	40	34	40	34	30	34	29	26	28	25	22				19	
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20				17	
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18				15	
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16				14	
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14				12	

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

	0°	45°	90°
0°	8477	8477	8477
5°	8541	8485	8454
10°	8520	8480	8456
15°	8475	8475	8467
20°	8419	8444	8444
25°	8340	8400	8374
30°	8238	8338	8302
35°	8115	8240	8183
40°	7982	8094	8012
45°	7837	7892	7770
50°	7632	7632	7509
55°	7389	7294	7184
60°	7032	6891	6781
65°	6500	6370	6314
70°	5691	5737	5714
75°	4579	5064	5095
80°	3255	4295	4339
85°	1980	3603	3603



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.9	1.7
10°-20°	748.6	4.9
20°-30°	1133.6	7.4
30°-40°	1359.0	8.9
40°-50°	1385.8	9.1
50°-60°	1209.7	7.9
60°-70°	866.0	5.7
70°-80°	446.1	2.9
80°-90°	115.8	0.8
90°-100°	562.1	3.7
100°-110°	1546.5	10.1
110°-120°	1596.3	10.4
120°-130°	1279.0	8.4
130°-140°	1004.5	6.6
140°-150°	769.8	5.0
150°-160°	553.5	3.6
160°-170°	338.4	2.2
170°-180°	114.1	0.7
0°-30°	2143.0	14.0
0°-40°	3502.1	22.9
0°-60°	6097.5	39.9
0°-90°	7525.4	49.2
90°-120°	3704.9	24.2
90°-150°	6758.2	44.2
90°-180°	7764.0	50.8
0°-180°	15289.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2756	2756	2756	2756	2756	
5°	2766	2739	2749	2741	2738	263
15°	2662	2639	2662	2662	2659	751
25°	2458	2440	2476	2468	2468	1131
35°	2162	2157	2195	2180	2180	1352
45°	1802	1797	1814	1792	1786	1387
55°	1378	1361	1360	1340	1340	1229
65°	893	873	875	868	868	883
75°	385	403	426	429	429	416
85°	56	86	102	105	102	76
90°	2	10	18	23	23	8
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°	2756.3	2756.3	2756.3	2756.3	2756.3
2.5°	2772.6	2748.7	2756.3	2749.9	2739.9
5°	2766.5	2739.0	2748.6	2740.9	2738.4
7.5°	2746.6	2719.1	2731.8	2726.6	2724.1
10°	2728.2	2700.8	2715.4	2710.3	2707.8
12.5°	2703.7	2678.3	2695.0	2689.9	2689.4
15°	2661.8	2639.4	2661.8	2661.8	2659.3
17.5°	2609.3	2588.8	2612.8	2614.3	2612.8
20°	2572.5	2550.1	2580.2	2577.7	2580.2
22.5°	2527.6	2509.1	2541.4	2534.8	2537.3
25°	2457.7	2440.2	2475.5	2467.9	2467.9
27.5°	2375.0	2362.5	2401.0	2392.9	2392.9
30°	2319.9	2307.4	2347.9	2337.7	2337.7
32.5°	2258.6	2250.1	2288.7	2276.5	2276.5
35°	2161.6	2156.6	2194.8	2179.5	2179.5
37.5°	2061.6	2057.1	2091.7	2073.2	2067.2
40°	1988.1	1985.6	2016.2	1995.7	1995.7
42.5°	1914.6	1912.1	1938.6	1914.1	1914.1
45°	1801.8	1796.8	1814.5	1791.5	1786.5
47.5°	1678.8	1673.8	1684.9	1659.8	1657.3
50°	1595.1	1590.1	1595.1	1572.0	1569.5
52.5°	1509.3	1500.3	1501.2	1478.2	1477.7
55°	1378.1	1360.7	1360.3	1339.9	1339.9
57.5°	1239.3	1216.3	1218.4	1201.0	1198.5
60°	1143.3	1118.4	1120.4	1105.0	1102.5
62.5°	1049.4	1020.5	1026.5	1009.1	1008.6
65°	893.2	873.3	875.4	867.7	867.7
67.5°	743.2	724.7	738.1	731.9	731.4
70°	632.9	620.4	638.0	638.0	635.5
72.5°	530.8	530.3	552.3	552.3	553.8
75°	385.4	402.8	426.2	428.8	428.8
77.5°	257.3	288.2	313.9	314.9	314.4
80°	183.8	218.7	242.5	247.5	245.0
82.5°	124.5	161.5	181.2	186.2	183.8
85°	56.1	86.1	102.1	104.6	102.1
87.5°	16.8	36.3	44.4	45.3	41.3
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)