

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: P564077

Luminaire Tested: **SQ4-PR1-075U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564077
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

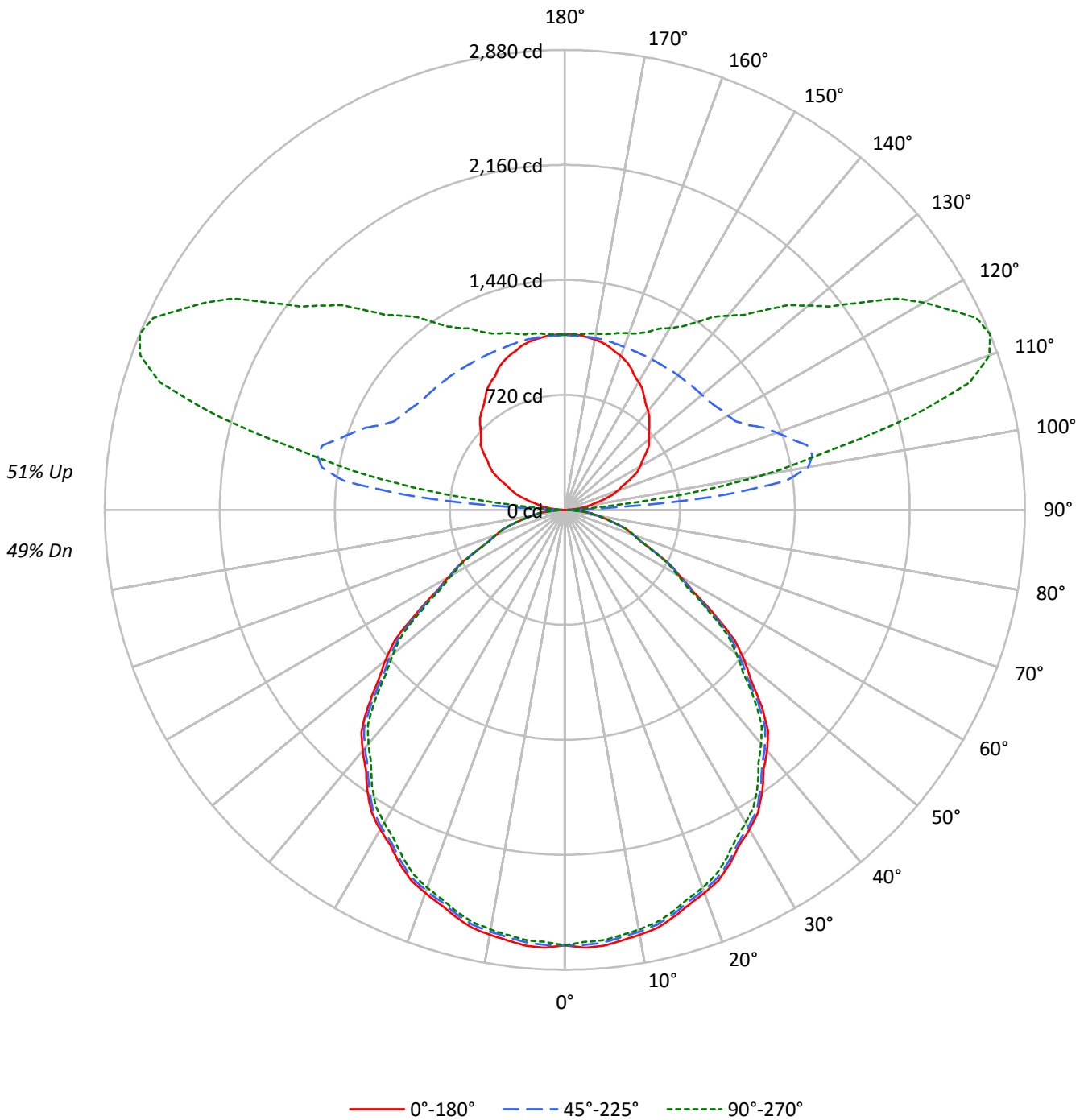
Lumens per Lamp: N/A
Luminaire Lumens: 13968.1 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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°	8388	8388	8388
5°	8463	8398	8355
10°	8437	8378	8334
15°	8400	8347	8302
20°	8357	8303	8242
25°	8298	8243	8147
30°	8209	8151	8034
35°	8088	8017	7903
40°	7903	7819	7677
45°	7581	7449	7295
50°	7014	6845	6710
55°	6122	5983	5857
60°	5159	5115	5014
65°	4462	4479	4445
70°	4098	4119	4119
75°	3935	3935	3964
80°	3703	3744	3703
85°	2985	3317	3317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	1.8
10°-20°	737.9	5.3
20°-30°	1113.0	8.0
30°-40°	1326.2	9.5
40°-50°	1307.5	9.4
50°-60°	999.3	7.2
60°-70°	618.4	4.4
70°-80°	351.2	2.5
80°-90°	109.6	0.8
90°-100°	517.4	3.7
100°-110°	1423.6	10.2
110°-120°	1469.4	10.5
120°-130°	1177.3	8.4
130°-140°	924.7	6.6
140°-150°	708.6	5.1
150°-160°	509.5	3.6
160°-170°	311.5	2.2
170°-180°	105.0	0.8
0°-30°	2108.9	15.1
0°-40°	3435.1	24.6
0°-60°	5741.8	41.1
0°-90°	6821.1	48.8
90°-120°	3410.4	24.4
90°-150°	6220.9	44.5
90°-180°	7147.0	51.2
0°-180°	13968.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2727	2727	2727	2727	2727	
5°	2742	2712	2720	2711	2706	260
15°	2638	2611	2622	2612	2608	744
25°	2446	2416	2429	2403	2401	1125
35°	2154	2129	2135	2107	2105	1344
45°	1743	1720	1713	1682	1677	1335
55°	1142	1123	1116	1097	1092	1023
65°	613	609	616	611	611	621
75°	331	331	331	334	334	350
85°	85	89	94	94	94	98
90°	2	9	16	21	21	8
95°	77	282	915	391	250	81
105°	254	391	1569	2389	2229	268
115°	450	549	1258	2505	2843	445
125°	621	708	1141	1931	2262	554
135°	749	831	1109	1562	1767	578
145°	866	925	1092	1330	1433	543
155°	980	1012	1085	1196	1230	450
165°	1060	1073	1090	1135	1141	299
175°	1097	1099	1092	1106	1104	104
180°	1097	1097	1097	1097	1097	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2727.4	2727.4	2727.4	2727.4	2727.4
2.5°	2744.3	2720.5	2727.4	2721.5	2708.6
5°	2741.5	2711.7	2720.4	2710.9	2706.3
7.5°	2720.4	2691.0	2699.7	2690.3	2687.5
10°	2701.6	2674.0	2682.8	2673.3	2668.7
12.5°	2680.9	2651.5	2662.1	2650.7	2646.2
15°	2638.2	2610.6	2621.7	2612.2	2607.6
17.5°	2591.2	2561.8	2572.9	2561.9	2555.9
20°	2553.6	2526.0	2537.1	2520.7	2518.4
22.5°	2512.2	2484.7	2495.8	2473.7	2473.3
25°	2445.5	2415.7	2429.1	2403.2	2400.9
27.5°	2366.1	2338.6	2349.7	2323.3	2320.6
30°	2311.6	2284.1	2295.2	2266.9	2262.3
32.5°	2249.6	2223.9	2233.2	2204.9	2202.2
35°	2154.2	2129.0	2135.4	2107.2	2104.9
37.5°	2045.7	2022.7	2026.4	1995.4	1993.1
40°	1968.6	1945.7	1947.5	1914.6	1912.3
42.5°	1884.1	1861.1	1859.2	1826.2	1823.9
45°	1743.1	1720.1	1712.6	1681.9	1677.3
47.5°	1582.4	1559.5	1545.3	1520.3	1517.1
50°	1465.9	1442.9	1430.7	1409.4	1402.5
52.5°	1340.0	1317.0	1306.6	1287.2	1280.3
55°	1141.7	1123.3	1115.9	1097.0	1092.4
57.5°	953.3	940.9	938.7	920.4	918.5
60°	838.7	831.8	831.6	815.2	815.2
62.5°	740.9	735.9	739.5	728.7	726.8
65°	613.1	608.6	615.5	610.8	610.8
67.5°	512.1	512.1	516.4	514.5	514.5
70°	455.7	455.7	458.1	458.1	458.1
72.5°	405.0	403.2	409.2	409.2	407.4
75°	331.2	331.2	331.2	333.6	333.6
77.5°	257.9	258.4	260.3	259.8	257.9
80°	209.1	211.4	211.4	209.1	209.1
82.5°	160.2	162.5	162.6	162.1	160.2
85°	84.6	89.2	94.0	94.0	94.0
87.5°	24.9	33.6	40.9	41.7	39.9
90°	2.3	9.2	16.3	21.0	21.0
92.5°	32.2	137.7	238.6	91.6	75.2
95°	77.0	282.4	915.0	391.3	249.8
97.5°	125.6	313.2	1396.3	1075.9	759.1
100°	161.1	332.2	1547.6	1562.0	1274.5
102.5°	194.7	354.9	1586.8	1937.9	1674.1
105°	254.4	391.4	1568.6	2388.9	2229.1
107.5°	311.4	436.5	1479.4	2609.8	2657.2
110°	352.5	466.6	1412.2	2664.7	2829.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	389.8	500.3	1345.0	2629.3	2879.5
115°	450.5	548.6	1258.1	2505.3	2843.0
117.5°	508.4	598.8	1203.0	2331.2	2713.3
120°	543.9	630.6	1178.8	2200.8	2595.6
122.5°	575.6	662.3	1162.0	2086.4	2461.2
125°	620.9	707.6	1141.4	1930.9	2261.8
127.5°	663.8	746.5	1127.9	1801.1	2091.4
130°	686.3	770.7	1120.4	1724.0	1988.7
132.5°	712.4	796.8	1114.8	1656.2	1895.4
135°	749.3	831.4	1108.7	1561.6	1767.0
137.5°	783.8	860.0	1103.6	1485.1	1654.5
140°	810.0	880.7	1101.7	1434.3	1587.2
142.5°	832.4	897.6	1098.0	1389.0	1520.0
145°	866.0	925.3	1092.4	1330.5	1433.2
147.5°	901.9	953.1	1089.6	1278.7	1360.8
150°	924.3	970.0	1087.7	1250.2	1314.1
152.5°	944.9	986.9	1085.9	1225.7	1278.7
155°	980.4	1012.3	1085.4	1195.9	1230.1
157.5°	1006.0	1032.1	1085.4	1171.4	1195.1
160°	1024.7	1045.2	1085.4	1158.2	1176.4
162.5°	1039.6	1056.5	1087.3	1146.9	1161.5
165°	1059.7	1073.4	1090.1	1134.6	1141.4
167.5°	1073.7	1084.2	1092.4	1124.2	1126.0
170°	1083.1	1089.9	1092.4	1120.4	1120.4
172.5°	1090.5	1093.7	1092.4	1114.8	1112.9
175°	1097.1	1099.3	1092.4	1106.4	1104.1
177.5°	1098.9	1098.9	1091.5	1102.6	1098.9
180°	1097.1	1097.1	1097.1	1097.1	1097.1

(END OF REPORT)