

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: P564757

Luminaire Tested: **SQ4-PW1-075U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564757
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-075D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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: 15137.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

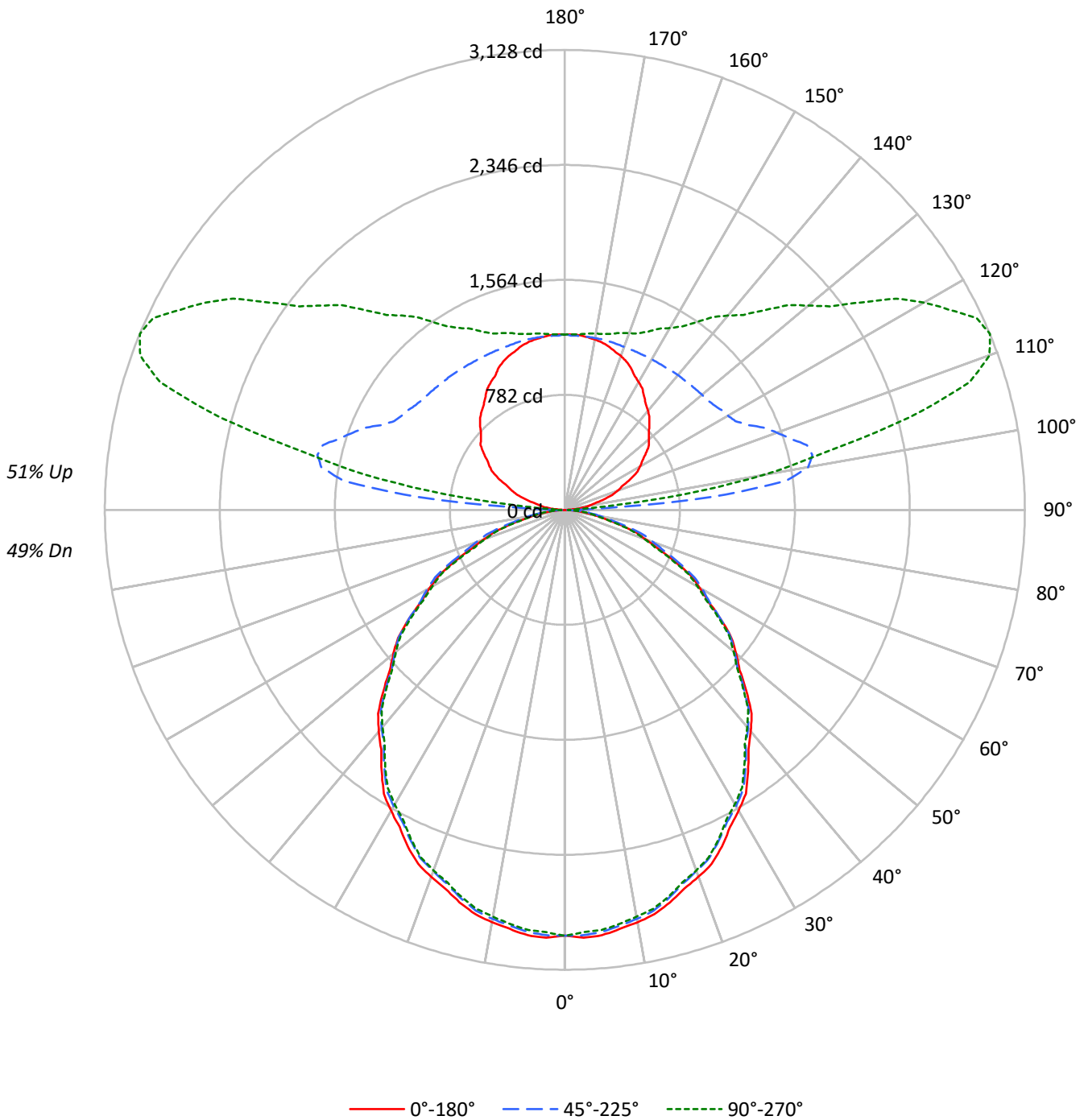
Input Watts (W): 133.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20									
RC	80					70					50					30					10				
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	49				
	1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41	41	41				
	2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35	35	35				
	3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	34	29	29	29				
	4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25	25	25				
	5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22	22	22				
	6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19	19	19				
	7	58	46	38	32	53	43	36	30	37	31	27	31	26	23	25	22	20	17	17	17				
	8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15	15	15				
	9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14	14	14				
	10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13	13	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8908	8908	8908
5°	8966	8895	8856
10°	8894	8823	8775
15°	8800	8703	8670
20°	8695	8561	8545
25°	8574	8418	8392
30°	8392	8265	8211
35°	8154	8039	7991
40°	7900	7777	7746
45°	7592	7492	7459
50°	7278	7216	7168
55°	6938	6938	6828
60°	6514	6640	6405
65°	5961	6259	5813
70°	5255	5760	5117
75°	4488	5156	4367
80°	3480	4339	3526
85°	2251	3331	2971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.8	1.8
10°-20°	770.1	5.1
20°-30°	1142.3	7.5
30°-40°	1336.6	8.8
40°-50°	1330.6	8.8
50°-60°	1149.0	7.6
60°-70°	827.1	5.5
70°-80°	433.7	2.9
80°-90°	110.6	0.7
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	3.7
160°-170°	338.4	2.2
170°-180°	114.1	0.8
0°-30°	2185.1	14.4
0°-40°	3521.8	23.3
0°-60°	6001.4	39.6
0°-90°	7372.9	48.7
90°-120°	3704.9	24.5
90°-150°	6758.2	44.6
90°-180°	7764.0	51.3
0°-180°	15137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2897	2897	2897	2897	2897	
5°	2904	2872	2881	2874	2869	275
15°	2764	2729	2733	2728	2723	779
25°	2527	2484	2481	2466	2473	1162
35°	2172	2142	2141	2121	2128	1358
45°	1746	1731	1723	1718	1715	1347
55°	1294	1291	1294	1276	1274	1154
65°	819	844	860	826	799	812
75°	378	413	434	405	368	405
85°	64	84	94	89	84	84
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°	2896.6	2896.6	2896.6	2896.6	2896.6
2.5°	2913.0	2889.0	2896.6	2890.2	2876.2
5°	2904.3	2871.9	2881.3	2873.6	2868.6
7.5°	2874.7	2844.8	2851.7	2843.5	2840.5
10°	2848.2	2818.2	2825.2	2814.9	2809.9
12.5°	2817.5	2785.6	2792.5	2782.2	2779.2
15°	2763.9	2729.0	2733.3	2728.1	2723.1
17.5°	2701.7	2666.2	2667.0	2658.8	2657.8
20°	2656.7	2619.3	2615.9	2605.8	2610.8
22.5°	2607.7	2568.3	2564.9	2550.7	2557.7
25°	2526.6	2484.2	2480.7	2465.5	2473.0
27.5°	2432.7	2390.7	2390.8	2369.6	2377.5
30°	2363.3	2323.3	2327.5	2302.2	2312.2
32.5°	2289.8	2253.8	2256.1	2230.8	2240.8
35°	2171.8	2141.9	2141.2	2121.0	2128.5
37.5°	2051.4	2024.9	2020.8	2009.1	2011.1
40°	1967.7	1945.2	1937.1	1929.4	1929.4
42.5°	1879.9	1859.4	1851.3	1845.6	1843.6
45°	1745.6	1730.7	1722.7	1717.5	1715.0
47.5°	1612.9	1599.0	1592.0	1588.4	1585.9
50°	1521.1	1511.1	1508.3	1500.6	1498.1
52.5°	1429.2	1423.2	1420.5	1410.7	1408.3
55°	1293.9	1291.4	1293.9	1276.0	1273.5
57.5°	1153.0	1157.0	1165.3	1141.2	1135.2
60°	1059.1	1069.1	1079.5	1051.2	1041.3
62.5°	963.2	979.1	993.8	961.3	947.3
65°	819.2	844.2	860.1	826.3	798.8
67.5°	680.4	711.3	730.4	694.0	663.0
70°	584.4	619.4	640.6	604.1	569.1
72.5°	500.7	539.7	556.9	522.4	487.5
75°	377.7	412.6	433.9	404.9	367.5
77.5°	268.0	300.9	318.5	293.3	262.4
80°	196.5	231.4	245.0	224.0	199.1
82.5°	139.3	168.3	177.6	165.0	148.0
85°	63.8	83.8	94.4	89.2	84.2
87.5°	16.8	32.3	42.3	43.4	45.4
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)