

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: P564749

Luminaire Tested: **SQ4-PW1-075U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564749
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13933.7 lumens
Efficiency: N/A
Efficacy: 104.5 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

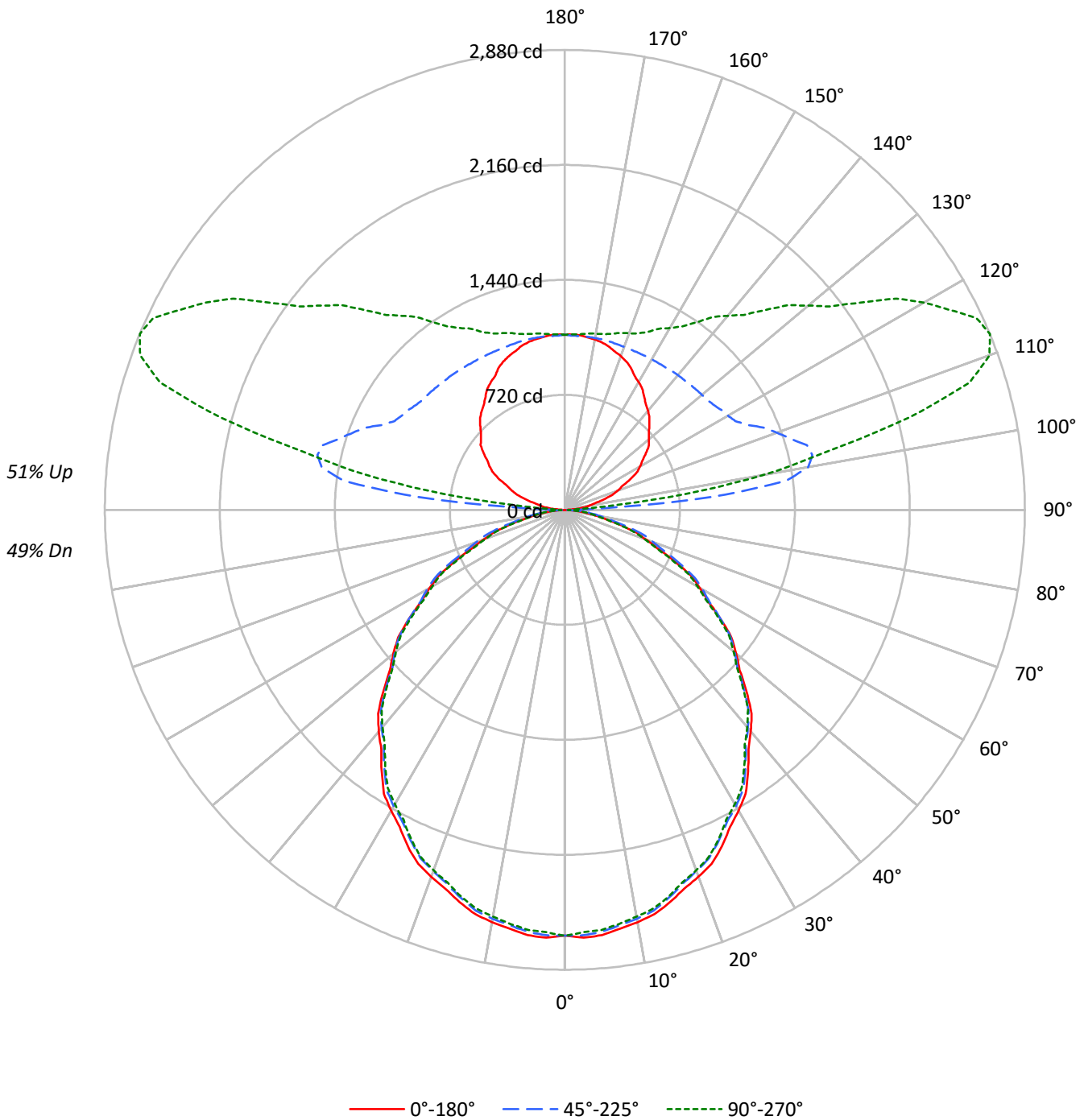
Input Watts (W): 133.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	0
RCR																		
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	34	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	37	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8200	8200	8200
5°	8253	8188	8152
10°	8187	8121	8077
15°	8100	8011	7981
20°	8004	7881	7865
25°	7892	7748	7725
30°	7725	7608	7558
35°	7506	7400	7356
40°	7271	7159	7130
45°	6989	6897	6866
50°	6699	6643	6598
55°	6386	6386	6286
60°	5996	6112	5896
65°	5488	5761	5351
70°	4838	5303	4711
75°	4132	4746	4020
80°	3204	3994	3245
85°	2071	3066	2735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.1	1.8
10°-20°	708.9	5.1
20°-30°	1051.5	7.5
30°-40°	1230.3	8.8
40°-50°	1224.8	8.8
50°-60°	1057.7	7.6
60°-70°	761.4	5.5
70°-80°	399.3	2.9
80°-90°	101.8	0.7
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	3.7
160°-170°	311.5	2.2
170°-180°	105.0	0.8
0°-30°	2011.4	14.4
0°-40°	3241.8	23.3
0°-60°	5524.3	39.6
0°-90°	6786.7	48.7
90°-120°	3410.4	24.5
90°-150°	6220.9	44.6
90°-180°	7147.0	51.3
0°-180°	13933.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2666	2666	2666	2666	2666	
5°	2673	2644	2652	2645	2640	253
15°	2544	2512	2516	2511	2507	717
25°	2326	2287	2283	2270	2276	1069
35°	1999	1972	1971	1952	1959	1250
45°	1607	1593	1586	1581	1579	1240
55°	1191	1189	1191	1175	1172	1063
65°	754	777	792	761	735	747
75°	348	380	399	373	338	373
85°	59	77	87	82	78	78
90°	2	9	16	21	21	7
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°	2666.4	2666.4	2666.4	2666.4	2666.4
2.5°	2681.4	2659.3	2666.4	2660.4	2647.6
5°	2673.4	2643.5	2652.3	2645.1	2640.5
7.5°	2646.2	2618.6	2625.0	2617.4	2614.7
10°	2621.7	2594.2	2600.6	2591.1	2586.5
12.5°	2593.5	2564.1	2570.5	2561.1	2558.3
15°	2544.2	2512.0	2516.0	2511.2	2506.6
17.5°	2486.9	2454.3	2454.9	2447.4	2446.5
20°	2445.5	2411.1	2407.9	2398.7	2403.3
22.5°	2400.4	2364.1	2361.0	2348.0	2354.4
25°	2325.7	2286.7	2283.4	2269.5	2276.4
27.5°	2239.3	2200.7	2200.7	2181.2	2188.5
30°	2175.4	2138.6	2142.5	2119.2	2128.4
32.5°	2107.7	2074.6	2076.7	2053.4	2062.6
35°	1999.2	1971.6	1971.0	1952.4	1959.2
37.5°	1888.3	1864.0	1860.1	1849.3	1851.2
40°	1811.2	1790.6	1783.1	1776.0	1776.0
42.5°	1730.4	1711.6	1704.1	1698.9	1697.1
45°	1606.9	1593.1	1585.7	1581.0	1578.7
47.5°	1484.7	1471.8	1465.4	1462.1	1459.8
50°	1400.1	1390.9	1388.4	1381.3	1379.0
52.5°	1315.6	1310.0	1307.6	1298.6	1296.3
55°	1191.1	1188.8	1191.1	1174.6	1172.3
57.5°	1061.4	1065.1	1072.7	1050.4	1044.9
60°	974.9	984.1	993.7	967.7	958.5
62.5°	886.6	901.3	914.8	884.9	872.0
65°	754.1	777.1	791.7	760.6	735.3
67.5°	626.3	654.8	672.3	638.8	610.3
70°	538.0	570.1	589.7	556.0	523.9
72.5°	460.9	496.8	512.6	480.9	448.7
75°	347.7	379.8	399.4	372.7	338.3
77.5°	246.7	277.0	293.2	270.0	241.5
80°	180.9	213.0	225.5	206.2	183.2
82.5°	128.3	154.9	163.5	151.9	136.3
85°	58.7	77.1	86.9	82.1	77.5
87.5°	15.5	29.7	39.0	40.0	41.8
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)