

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: P562721

Luminaire Tested: **SQ4-PC3-075U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562721
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16694.1 lumens
Efficiency: N/A
Efficacy: 125.1 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

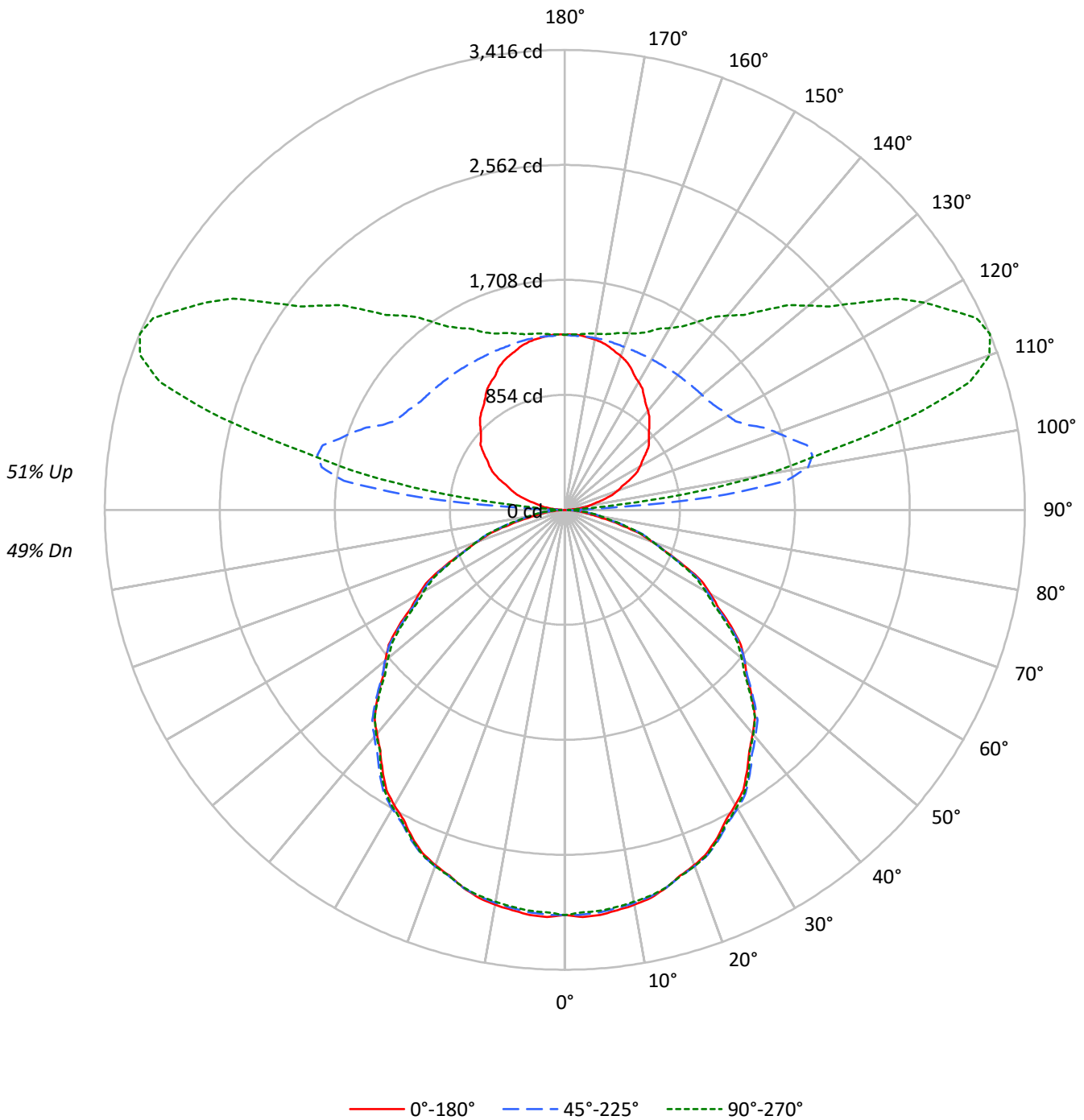
Input Watts (W): 133.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	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°	9255	9255	9255
5°	9325	9265	9231
10°	9302	9259	9233
15°	9254	9254	9245
20°	9193	9220	9220
25°	9106	9172	9144
30°	8995	9104	9064
35°	8861	8997	8934
40°	8715	8838	8748
45°	8556	8617	8484
50°	8333	8333	8199
55°	8068	7963	7844
60°	7679	7524	7404
65°	7097	6955	6894
70°	6214	6264	6239
75°	5000	5530	5562
80°	3553	4688	4738
85°	2163	3934	3934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.8	1.7
10°-20°	817.3	4.9
20°-30°	1237.7	7.4
30°-40°	1483.9	8.9
40°-50°	1513.1	9.1
50°-60°	1320.8	7.9
60°-70°	945.6	5.7
70°-80°	487.0	2.9
80°-90°	126.5	0.8
90°-100°	613.7	3.7
100°-110°	1688.6	10.1
110°-120°	1742.9	10.4
120°-130°	1396.4	8.4
130°-140°	1096.8	6.6
140°-150°	840.5	5.0
150°-160°	604.3	3.6
160°-170°	369.5	2.2
170°-180°	124.6	0.7
0°-30°	2339.9	14.0
0°-40°	3823.8	22.9
0°-60°	6657.7	39.9
0°-90°	8216.7	49.2
90°-120°	4045.3	24.2
90°-150°	7379.0	44.2
90°-180°	8477.0	50.8
0°-180°	16694.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3010	3010	3010	3010	3010	
5°	3021	2991	3001	2993	2990	287
15°	2906	2882	2906	2906	2904	819
25°	2683	2664	2703	2695	2695	1235
35°	2360	2355	2396	2380	2380	1476
45°	1967	1962	1981	1956	1951	1514
55°	1505	1486	1485	1463	1463	1341
65°	975	954	956	947	947	965
75°	421	440	465	468	468	455
85°	61	94	112	114	112	83
90°	3	11	19	25	25	9
95°	91	335	1085	464	296	97
105°	302	464	1861	2834	2644	318
115°	534	651	1492	2972	3372	527
125°	736	839	1354	2290	2683	657
135°	889	986	1315	1852	2096	686
145°	1027	1098	1296	1578	1700	644
155°	1163	1201	1288	1418	1459	534
165°	1257	1273	1293	1346	1354	354
175°	1301	1304	1296	1312	1310	124
180°	1301	1301	1301	1301	1301	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3009.5	3009.5	3009.5	3009.5	3009.5
2.5°	3027.3	3001.1	3009.5	3002.5	2991.6
5°	3020.6	2990.6	3001.1	2992.7	2990.0
7.5°	2998.9	2968.9	2982.7	2977.1	2974.4
10°	2978.8	2948.8	2964.9	2959.2	2956.5
12.5°	2952.1	2924.3	2942.6	2937.0	2936.5
15°	2906.4	2881.8	2906.4	2906.3	2903.6
17.5°	2849.0	2826.6	2852.9	2854.5	2852.9
20°	2808.8	2784.3	2817.2	2814.5	2817.2
22.5°	2759.8	2739.6	2774.8	2767.7	2770.4
25°	2683.4	2664.4	2702.9	2694.6	2694.6
27.5°	2593.2	2579.5	2621.6	2612.7	2612.7
30°	2533.0	2519.3	2563.6	2552.5	2552.5
32.5°	2466.1	2456.8	2499.0	2485.6	2485.6
35°	2360.2	2354.8	2396.4	2379.7	2379.7
37.5°	2251.0	2246.1	2283.9	2263.6	2257.1
40°	2170.7	2168.0	2201.4	2179.1	2179.1
42.5°	2090.5	2087.7	2116.7	2089.9	2089.9
45°	1967.3	1961.9	1981.2	1956.0	1950.6
47.5°	1833.0	1827.5	1839.7	1812.3	1809.6
50°	1741.6	1736.1	1741.6	1716.5	1713.7
52.5°	1648.0	1638.2	1639.0	1614.0	1613.4
55°	1504.7	1485.7	1485.2	1462.9	1462.9
57.5°	1353.1	1328.1	1330.3	1311.3	1308.6
60°	1248.4	1221.1	1223.3	1206.5	1203.8
62.5°	1145.8	1114.2	1120.7	1101.8	1101.2
65°	975.3	953.5	955.8	947.4	947.4
67.5°	811.4	791.3	805.9	799.2	798.6
70°	691.1	677.4	696.6	696.6	693.8
72.5°	579.6	579.1	603.0	603.0	604.7
75°	420.8	439.8	465.4	468.1	468.1
77.5°	280.9	314.7	342.7	343.8	343.3
80°	200.6	238.8	264.7	270.2	267.5
82.5°	136.0	176.3	197.8	203.4	200.6
85°	61.3	94.0	111.5	114.2	111.5
87.5°	18.4	39.6	48.5	49.5	45.1
90°	2.8	10.9	19.4	24.9	24.9
92.5°	38.2	163.3	283.0	108.6	89.2
95°	91.4	335.0	1085.3	464.1	296.3
97.5°	149.0	371.5	1656.2	1276.1	900.4
100°	191.0	394.1	1835.7	1852.8	1511.7
102.5°	230.9	421.0	1882.2	2298.7	1985.7
105°	301.8	464.2	1860.6	2833.6	2644.1
107.5°	369.3	517.7	1754.8	3095.6	3151.9
110°	418.1	553.4	1675.1	3160.8	3355.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	462.4	593.4	1595.3	3118.8	3415.5
115°	534.4	650.8	1492.3	2971.6	3372.3
117.5°	603.0	710.2	1427.0	2765.2	3218.4
120°	645.1	748.0	1398.2	2610.5	3078.8
122.5°	682.8	785.6	1378.3	2474.8	2919.3
125°	736.5	839.4	1353.9	2290.3	2682.9
127.5°	787.4	885.4	1337.8	2136.4	2480.8
130°	814.0	914.2	1329.0	2044.9	2358.9
132.5°	845.0	945.2	1322.3	1964.5	2248.2
135°	888.8	986.2	1315.1	1852.3	2095.9
137.5°	929.7	1020.2	1309.0	1761.6	1962.5
140°	960.7	1044.7	1306.8	1701.3	1882.7
142.5°	987.3	1064.7	1302.4	1647.6	1803.0
145°	1027.2	1097.6	1295.8	1578.2	1700.0
147.5°	1069.8	1130.5	1292.4	1516.7	1614.2
150°	1096.4	1150.6	1290.2	1483.0	1558.8
152.5°	1120.8	1170.6	1288.0	1453.9	1516.7
155°	1162.9	1200.8	1287.5	1418.5	1459.1
157.5°	1193.3	1224.2	1287.5	1389.4	1417.6
160°	1215.5	1239.8	1287.5	1373.8	1395.4
162.5°	1233.2	1253.2	1289.7	1360.4	1377.7
165°	1257.0	1273.2	1293.0	1345.8	1353.9
167.5°	1273.6	1286.1	1295.8	1333.5	1335.6
170°	1284.7	1292.8	1295.8	1329.0	1329.0
172.5°	1293.5	1297.3	1295.8	1322.3	1320.1
175°	1301.3	1304.0	1295.8	1312.3	1309.6
177.5°	1303.5	1303.5	1294.7	1307.8	1303.5
180°	1301.3	1301.3	1301.3	1301.3	1301.3

(END OF REPORT)