

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: P562733

Luminaire Tested: **SQ4-PC3-075U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562733
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-930-1D-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14074.2 lumens
Efficiency: N/A
Efficacy: 105.5 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

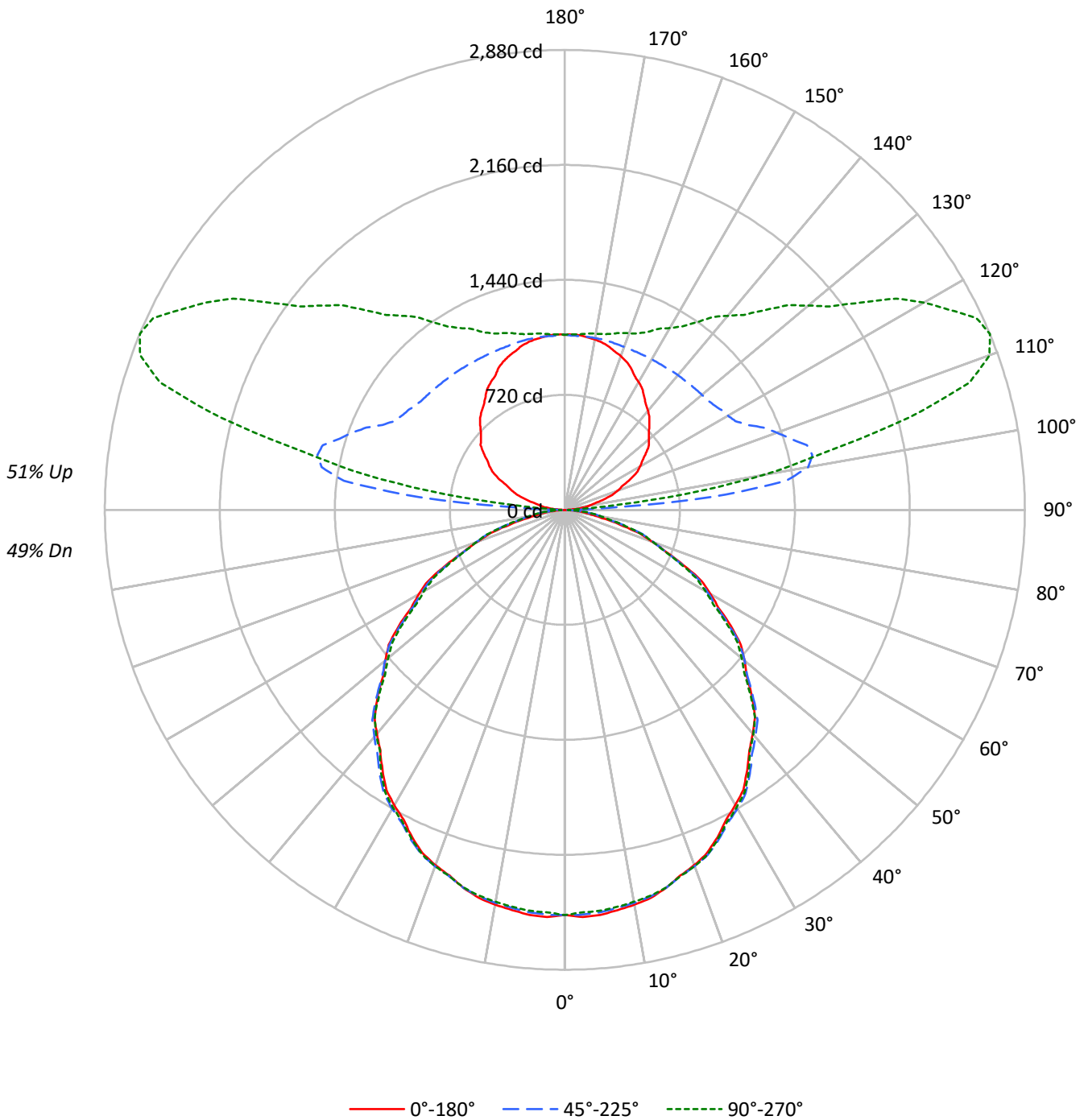
Input Watts (W): 133.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	7803	7803	7803
5°	7862	7811	7782
10°	7842	7806	7784
15°	7801	7801	7794
20°	7750	7773	7773
25°	7677	7732	7709
30°	7583	7675	7642
35°	7470	7585	7532
40°	7347	7451	7375
45°	7213	7265	7152
50°	7025	7025	6913
55°	6802	6714	6613
60°	6473	6343	6242
65°	5983	5864	5812
70°	5239	5281	5260
75°	4215	4661	4690
80°	2995	3953	3994
85°	1824	3317	3317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	1.7
10°-20°	689.1	4.9
20°-30°	1043.5	7.4
30°-40°	1251.0	8.9
40°-50°	1275.6	9.1
50°-60°	1113.5	7.9
60°-70°	797.2	5.7
70°-80°	410.6	2.9
80°-90°	106.6	0.8
90°-100°	517.4	3.7
100°-110°	1423.6	10.1
110°-120°	1469.4	10.4
120°-130°	1177.3	8.4
130°-140°	924.7	6.6
140°-150°	708.6	5.0
150°-160°	509.5	3.6
160°-170°	311.5	2.2
170°-180°	105.0	0.7
0°-30°	1972.7	14.0
0°-40°	3223.7	22.9
0°-60°	5612.8	39.9
0°-90°	6927.2	49.2
90°-120°	3410.4	24.2
90°-150°	6220.9	44.2
90°-180°	7147.0	50.8
0°-180°	14074.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2537	2537	2537	2537	2537	
5°	2547	2521	2530	2523	2521	242
15°	2450	2430	2450	2450	2448	691
25°	2262	2246	2279	2272	2272	1041
35°	1990	1985	2020	2006	2006	1244
45°	1658	1654	1670	1649	1644	1277
55°	1269	1252	1252	1233	1233	1131
65°	822	804	806	799	799	813
75°	355	371	392	395	395	383
85°	52	79	94	96	94	70
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°	2537.2	2537.2	2537.2	2537.2	2537.2
2.5°	2552.2	2530.1	2537.2	2531.3	2522.1
5°	2546.6	2521.3	2530.1	2523.0	2520.7
7.5°	2528.2	2503.0	2514.6	2509.9	2507.6
10°	2511.3	2486.0	2499.6	2494.8	2492.5
12.5°	2488.8	2465.3	2480.8	2476.1	2475.6
15°	2450.2	2429.6	2450.2	2450.2	2447.9
17.5°	2401.8	2383.0	2405.1	2406.5	2405.1
20°	2368.0	2347.3	2375.1	2372.8	2375.1
22.5°	2326.7	2309.7	2339.4	2333.3	2335.6
25°	2262.3	2246.2	2278.7	2271.7	2271.7
27.5°	2186.2	2174.7	2210.1	2202.6	2202.6
30°	2135.4	2124.0	2161.3	2151.9	2151.9
32.5°	2079.1	2071.2	2106.8	2095.5	2095.5
35°	1989.8	1985.2	2020.3	2006.2	2006.2
37.5°	1897.7	1893.6	1925.4	1908.4	1902.9
40°	1830.0	1827.7	1855.9	1837.1	1837.1
42.5°	1762.4	1760.1	1784.5	1761.9	1761.9
45°	1658.5	1654.0	1670.3	1649.0	1644.5
47.5°	1545.3	1540.7	1551.0	1527.9	1525.6
50°	1468.3	1463.7	1468.3	1447.1	1444.8
52.5°	1389.3	1381.1	1381.8	1360.7	1360.2
55°	1268.6	1252.5	1252.1	1233.3	1233.3
57.5°	1140.8	1119.6	1121.5	1105.5	1103.2
60°	1052.4	1029.5	1031.3	1017.2	1014.9
62.5°	966.0	939.4	944.9	928.9	928.4
65°	822.2	803.8	805.8	798.7	798.7
67.5°	684.1	667.1	679.4	673.7	673.3
70°	582.6	571.1	587.3	587.3	585.0
72.5°	488.6	488.2	508.4	508.4	509.8
75°	354.7	370.8	392.3	394.7	394.7
77.5°	236.8	265.3	289.0	289.9	289.4
80°	169.1	201.3	223.2	227.8	225.5
82.5°	114.6	148.6	166.8	171.4	169.1
85°	51.7	79.2	94.0	96.3	94.0
87.5°	15.5	33.4	40.9	41.7	38.0
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)