

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: P520258

Luminaire Tested: **SQ4-F-100U-125D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520258
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-100U-125D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

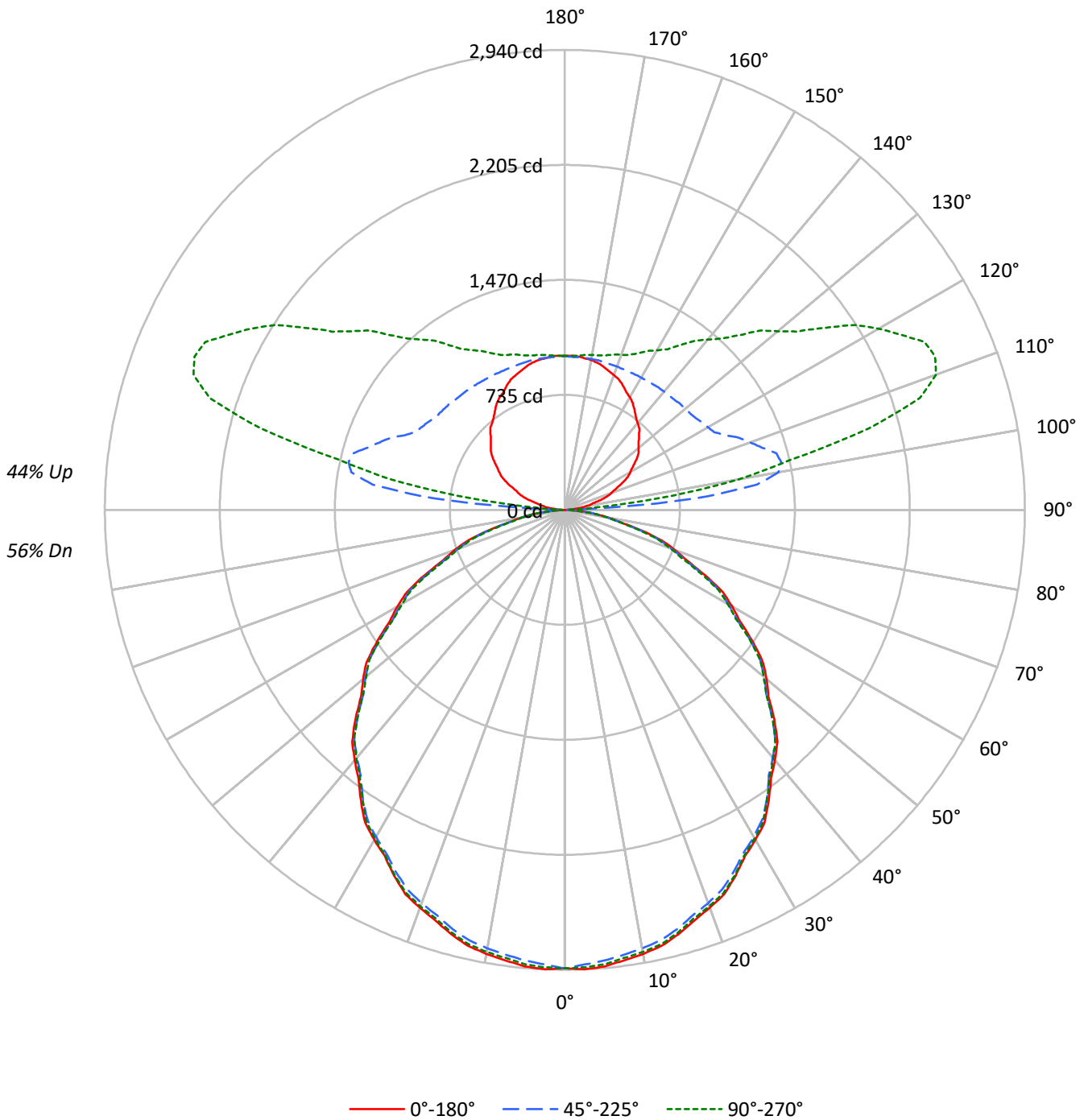
Lumens per Lamp: N/A
Luminaire Lumens: 14390.3 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 138.6
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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56		
1	99	95	91	87	92	88	85	82	76	73	71	65	63	61	54	53	52	47		
2	90	83	76	71	83	77	71	67	66	62	59	57	54	51	48	45	43	39		
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33		
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28		
5	69	57	49	43	64	53	46	40	46	41	36	40	35	32	34	30	28	24		
6	63	51	43	37	59	48	41	35	42	36	31	36	31	28	31	27	24	21		
7	59	46	38	32	54	43	36	31	38	32	28	33	28	25	28	24	21	19		
8	54	42	34	29	50	39	32	27	34	29	25	30	25	22	26	22	19	17		
9	51	38	31	26	47	36	29	24	32	26	22	27	23	20	24	20	17	15		
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13521	13521	13521
5°	13565	13393	13505
10°	13502	13336	13442
15°	13412	13250	13358
20°	13288	13137	13240
25°	13136	12997	13103
30°	12974	12863	12931
35°	12790	12681	12690
40°	12579	12443	12482
45°	12343	12208	12228
50°	12073	11935	11900
55°	11766	11598	11572
60°	11385	11131	11072
65°	10793	10564	10423
70°	10051	9791	9660
75°	8942	8739	8480
80°	7287	7069	7027
85°	4356	4949	4949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	1.9
10°-20°	787.6	5.5
20°-30°	1183.3	8.2
30°-40°	1411.9	9.8
40°-50°	1447.2	10.1
50°-60°	1289.9	9.0
60°-70°	960.3	6.7
70°-80°	520.2	3.6
80°-90°	121.5	0.8
90°-100°	460.7	3.2
100°-110°	1271.9	8.8
110°-120°	1311.7	9.1
120°-130°	1054.1	7.3
130°-140°	828.4	5.8
140°-150°	635.3	4.4
150°-160°	456.6	3.2
160°-170°	279.2	1.9
170°-180°	94.1	0.7
0°-30°	2247.4	15.6
0°-40°	3659.3	25.4
0°-60°	6396.4	44.4
0°-90°	7998.3	55.6
90°-120°	3044.3	21.2
90°-150°	5562.0	38.7
90°-180°	6392.0	44.4
0°-180°	14390.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2931	2931	2931	2931	2931	
5°	2929	2924	2892	2918	2916	278
15°	2808	2802	2774	2798	2797	792
25°	2581	2576	2554	2568	2574	1189
35°	2271	2270	2252	2252	2253	1420
45°	1892	1887	1871	1868	1874	1458
55°	1463	1458	1442	1431	1439	1307
65°	989	982	968	961	955	979
75°	502	502	490	481	476	533
85°	82	93	94	95	94	114
90°	3	6	13	14	16	7
95°	68	249	836	344	224	72
105°	227	350	1399	2136	2012	241
115°	406	491	1127	2231	2537	399
125°	557	634	1022	1729	2029	496
135°	670	743	993	1400	1579	519
145°	778	831	981	1192	1283	487
155°	877	906	973	1070	1103	404
165°	949	961	977	1015	1023	268
175°	984	985	979	993	990	93
180°	984	984	984	984	984	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2930.9	2930.9	2930.9	2930.9	2930.9
2.5°	2939.9	2934.8	2908.9	2930.8	2927.0
5°	2929.3	2924.5	2892.2	2917.9	2916.3
7.5°	2904.4	2898.5	2869.0	2893.1	2890.2
10°	2882.4	2877.8	2847.0	2871.2	2869.6
12.5°	2855.4	2850.6	2819.9	2844.0	2843.7
15°	2808.3	2802.0	2774.4	2798.5	2797.0
17.5°	2751.8	2744.6	2717.3	2736.4	2739.5
20°	2706.7	2701.9	2676.0	2693.8	2697.0
22.5°	2660.2	2654.2	2626.9	2647.4	2650.6
25°	2580.8	2576.1	2553.5	2568.1	2574.3
27.5°	2493.8	2493.8	2472.8	2483.2	2487.0
30°	2435.7	2435.7	2414.7	2421.3	2427.6
32.5°	2373.8	2368.7	2348.9	2354.2	2360.5
35°	2271.1	2269.6	2251.7	2251.8	2253.4
37.5°	2165.0	2160.6	2141.2	2142.6	2150.2
40°	2088.9	2085.7	2066.3	2066.5	2072.7
42.5°	2011.4	2008.3	1991.5	1988.9	1991.5
45°	1892.0	1887.4	1871.2	1868.0	1874.3
47.5°	1764.9	1766.3	1746.9	1742.4	1745.9
50°	1682.3	1682.3	1663.0	1653.5	1658.2
52.5°	1595.9	1593.4	1574.0	1563.2	1574.3
55°	1463.0	1458.2	1442.0	1430.9	1438.8
57.5°	1326.9	1319.6	1303.3	1291.1	1295.6
60°	1234.0	1222.9	1206.5	1197.0	1200.1
62.5°	1137.2	1131.2	1113.7	1099.0	1105.8
65°	988.8	982.5	967.8	961.2	954.9
67.5°	843.2	839.2	822.7	815.8	811.6
70°	745.2	737.3	725.9	717.8	716.2
72.5°	649.8	640.5	629.1	622.2	618.1
75°	501.7	501.7	490.3	480.6	475.8
77.5°	360.7	361.9	352.6	349.4	347.1
80°	274.3	274.3	266.1	263.0	264.5
82.5°	191.7	195.4	192.6	188.0	185.8
85°	82.3	93.3	93.5	95.2	93.5
87.5°	14.8	24.3	27.1	24.8	22.6
90°	3.2	6.2	12.6	14.2	15.7
92.5°	28.3	117.6	210.3	76.8	59.8
95°	67.7	249.3	835.8	343.6	223.5
97.5°	112.1	279.3	1238.1	953.2	690.4
100°	144.8	297.2	1386.7	1396.5	1134.8
102.5°	176.3	317.5	1415.7	1725.5	1477.4
105°	226.6	349.8	1399.3	2136.3	2011.6
107.5°	280.1	389.8	1321.2	2334.4	2380.0
110°	317.9	416.5	1260.8	2377.0	2524.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	352.0	446.7	1204.2	2343.4	2561.3
115°	406.1	490.8	1127.0	2231.1	2537.3
117.5°	453.4	537.6	1076.4	2073.0	2421.5
120°	484.8	567.9	1056.2	1966.1	2316.9
122.5°	515.0	594.4	1039.8	1866.2	2198.6
125°	557.2	634.2	1021.6	1728.9	2028.9
127.5°	593.1	670.0	1010.9	1612.6	1871.5
130°	617.0	693.9	1005.8	1541.6	1777.0
132.5°	639.7	712.9	1000.8	1481.9	1695.2
135°	670.5	742.9	993.2	1400.2	1578.8
137.5°	705.2	771.0	989.4	1331.6	1484.0
140°	724.0	788.7	986.9	1285.9	1419.7
142.5°	745.5	805.2	984.4	1245.2	1363.1
145°	777.5	831.4	980.6	1192.0	1282.8
147.5°	808.4	855.5	977.1	1147.2	1217.6
150°	831.0	869.5	975.9	1120.4	1177.4
152.5°	848.7	884.8	974.7	1097.5	1144.6
155°	876.7	906.0	972.8	1069.5	1103.4
157.5°	902.6	925.0	973.1	1049.2	1072.2
160°	917.7	937.7	974.3	1037.7	1054.6
162.5°	930.3	947.8	975.6	1027.5	1040.8
165°	949.2	961.4	977.4	1015.4	1023.1
167.5°	963.6	971.0	979.0	1008.1	1010.5
170°	971.2	977.3	979.0	1004.3	1004.3
172.5°	977.4	981.2	979.0	999.2	997.9
175°	983.8	985.3	979.0	993.2	990.1
177.5°	986.3	985.1	978.7	987.5	985.1
180°	983.8	983.8	983.8	983.8	983.8

(END OF REPORT)