

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: P520232

Luminaire Tested: **SQ4-F-100U-100D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520232
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G3-1910-536-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-100U-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

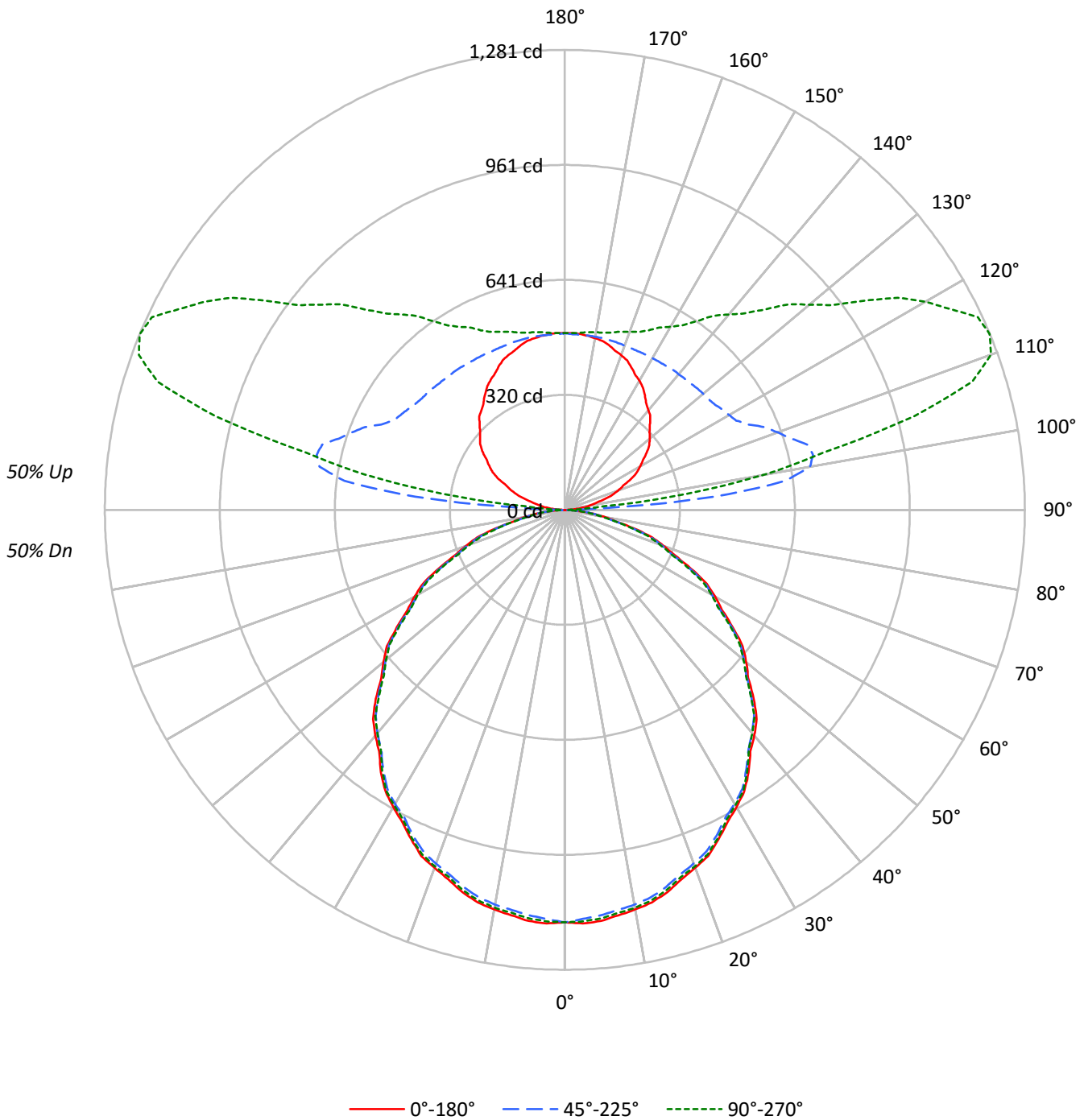
Lumens per Lamp: N/A
Luminaire Lumens: 6330.2 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.9
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



TEST NUMBER: P520232
CATALOG NUMBER: SQ4-F-100U-100D-930-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P520232

CATALOG NUMBER: SQ4-F-100U-100D-930-1D-UNV-STD-W-4

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	56	56	56	50
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	49	48	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	39	35
3	81	71	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	59	52	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	31	27	25	22
6	63	50	42	36	57	47	40	34	40	34	30	34	29	26	28	24	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	19	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10599	10599	10599
5°	10647	10501	10580
10°	10592	10460	10541
15°	10529	10385	10468
20°	10420	10296	10381
25°	10305	10185	10267
30°	10180	10071	10122
35°	10052	9928	9981
40°	9886	9771	9781
45°	9711	9577	9547
50°	9462	9348	9325
55°	9182	9082	9017
60°	8903	8743	8715
65°	8468	8281	8211
70°	7869	7680	7529
75°	7026	6802	6662
80°	5781	5568	5324
85°	3419	3758	3843



TEST NUMBER: P520232

CATALOG NUMBER: SQ4-F-100U-100D-930-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	1.7
10°-20°	308.8	4.9
20°-30°	463.7	7.3
30°-40°	553.3	8.7
40°-50°	567.2	9.0
50°-60°	505.1	8.0
60°-70°	376.5	5.9
70°-80°	203.8	3.2
80°-90°	47.4	0.7
90°-100°	230.3	3.6
100°-110°	635.9	10.0
110°-120°	655.8	10.4
120°-130°	527.0	8.3
130°-140°	414.2	6.5
140°-150°	317.7	5.0
150°-160°	228.3	3.6
160°-170°	139.6	2.2
170°-180°	47.1	0.7
0°-30°	880.9	13.9
0°-40°	1434.2	22.7
0°-60°	2506.5	39.6
0°-90°	3134.2	49.5
90°-120°	1522.1	24.0
90°-150°	2781.0	43.9
90°-180°	3196.0	50.5
0°-180°	6330.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1150	1147	1134	1144	1142	109
15°	1102	1098	1087	1096	1096	311
25°	1012	1010	1000	1006	1008	466
35°	892	889	882	883	886	557
45°	744	740	734	730	732	573
55°	571	572	565	559	561	511
65°	388	386	379	375	376	384
75°	197	195	191	187	187	210
85°	32	35	36	36	36	45
90°	2	3	6	7	8	3
95°	34	125	418	172	112	36
105°	113	175	700	1068	1006	121
115°	203	245	564	1116	1269	200
125°	279	317	511	864	1014	248
135°	335	372	497	700	789	259
145°	389	416	490	596	641	243
155°	438	453	486	535	552	202
165°	474	481	489	508	512	134
175°	492	493	490	497	495	47
180°	492	492	492	492	492	

TEST NUMBER: P520232

CATALOG NUMBER: SQ4-F-100U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.8	1148.8	1148.8	1148.8	1148.8
2.5°	1153.2	1150.7	1140.5	1148.8	1147.5
5°	1149.6	1147.3	1133.8	1144.0	1142.4
7.5°	1138.9	1136.6	1124.7	1134.1	1132.7
10°	1130.6	1128.3	1116.5	1125.9	1125.1
12.5°	1119.9	1117.6	1105.8	1115.2	1114.4
15°	1102.3	1098.4	1087.2	1095.9	1095.9
17.5°	1078.9	1076.0	1065.6	1073.0	1073.1
20°	1061.3	1059.0	1048.7	1056.5	1057.3
22.5°	1043.6	1041.3	1029.8	1037.0	1038.4
25°	1012.3	1010.0	1000.5	1006.1	1008.5
27.5°	980.2	976.9	967.4	972.4	974.1
30°	955.6	954.1	945.3	947.8	950.1
32.5°	929.8	928.2	920.8	922.0	926.1
35°	892.5	888.7	881.5	883.1	886.2
37.5°	848.5	846.7	839.7	838.8	841.7
40°	820.8	817.7	811.3	809.8	812.1
42.5°	790.5	787.4	779.8	778.3	781.2
45°	744.3	740.4	734.0	730.1	731.7
47.5°	692.6	692.6	685.9	681.4	683.8
50°	659.2	659.2	651.3	647.4	649.7
52.5°	624.4	625.1	616.6	614.5	613.7
55°	570.8	571.6	564.6	559.0	560.6
57.5°	519.1	517.4	509.2	505.6	506.3
60°	482.5	480.3	473.8	468.5	472.3
62.5°	445.3	444.3	437.9	431.7	431.3
65°	387.9	386.4	379.3	375.3	376.1
67.5°	330.8	329.0	322.5	316.9	318.8
70°	291.7	291.7	284.7	281.4	279.1
72.5°	255.7	252.7	247.4	242.9	241.3
75°	197.1	194.8	190.8	186.9	186.9
77.5°	143.5	141.5	138.9	136.2	135.4
80°	108.8	108.0	104.8	104.0	100.2
82.5°	76.6	76.5	74.6	72.5	72.4
85°	32.3	35.4	35.5	36.3	36.3
87.5°	5.9	10.0	10.1	9.0	9.1
90°	1.6	3.1	6.3	7.1	7.9
92.5°	14.1	58.8	105.2	38.4	29.9
95°	33.8	124.6	417.9	171.8	111.8
97.5°	56.0	139.6	619.1	476.6	345.1
100°	72.4	148.6	693.3	698.3	567.4
102.5°	88.1	158.8	707.9	862.7	738.6
105°	113.4	174.9	699.7	1068.2	1005.8
107.5°	140.1	194.9	660.6	1167.2	1189.9
110°	159.0	208.2	630.4	1188.5	1262.3



TEST NUMBER: P520232

CATALOG NUMBER: SQ4-F-100U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.0	223.4	602.0	1171.6	1280.6
115°	203.1	245.3	563.5	1115.5	1268.7
117.5°	226.6	268.9	538.1	1036.5	1210.7
120°	242.4	283.9	528.0	983.0	1158.5
122.5°	257.5	297.3	519.9	933.1	1099.3
125°	278.6	317.0	510.7	864.4	1014.4
127.5°	296.6	335.0	505.4	806.3	935.8
130°	308.5	347.0	502.9	770.8	888.5
132.5°	319.8	356.5	500.3	740.9	847.7
135°	335.2	371.5	496.6	700.1	789.4
137.5°	352.6	385.5	494.7	665.8	742.0
140°	362.1	394.3	493.4	642.9	709.9
142.5°	372.7	402.6	492.2	622.6	681.6
145°	388.8	415.7	490.4	596.0	641.4
147.5°	404.2	427.7	488.6	573.5	608.9
150°	415.6	434.8	488.0	560.2	588.7
152.5°	424.4	442.4	487.3	548.8	572.4
155°	438.3	453.0	486.4	534.8	551.7
157.5°	451.3	462.6	486.5	524.6	536.2
160°	458.8	468.8	487.2	518.8	527.3
162.5°	465.1	473.9	487.8	513.8	520.3
165°	474.5	480.8	488.8	507.7	511.5
167.5°	481.8	485.5	489.6	504.0	505.3
170°	485.6	488.7	489.6	502.1	502.1
172.5°	488.8	490.6	489.6	499.6	499.0
175°	491.8	492.6	489.6	496.6	495.0
177.5°	493.1	492.5	489.4	493.7	492.5
180°	491.8	491.8	491.8	491.8	491.8

(END OF REPORT)