

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: P520328

Luminaire Tested: **SQ4-F-125U-100D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520328
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

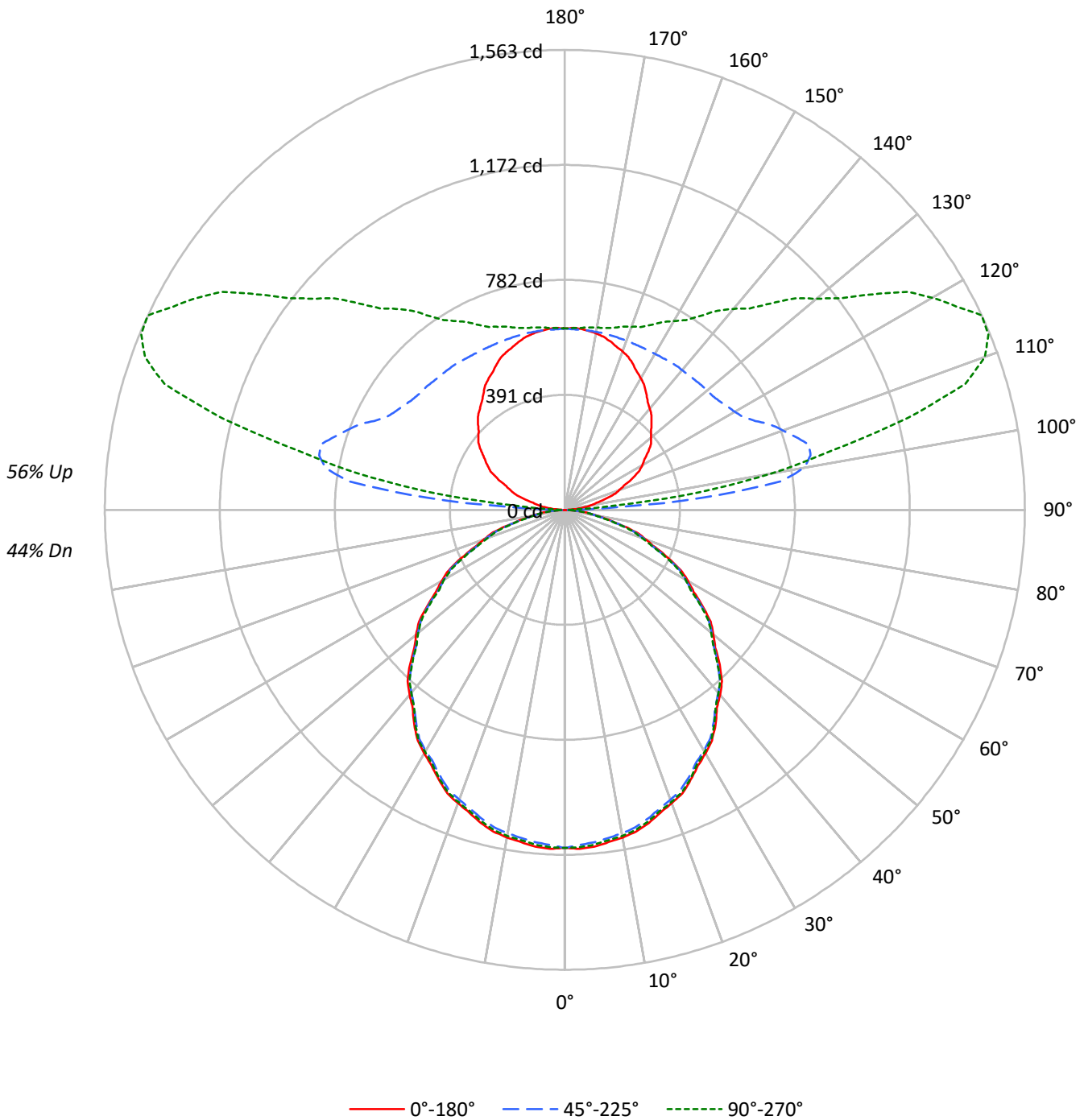
Lumens per Lamp: N/A
Luminaire Lumens: 7112.9 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.5
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	45	44	43	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	38	36	31
3	80	71	63	57	73	65	59	53	54	49	45	44	41	38	35	32	30	26
4	73	62	54	48	67	57	50	45	48	43	39	39	35	32	31	28	26	22
5	67	55	47	41	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	33	38	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	21	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	22	26	22	19	21	18	16	13
9	49	37	30	24	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	1.5
10°-20°	308.8	4.3
20°-30°	463.7	6.5
30°-40°	553.3	7.8
40°-50°	567.2	8.0
50°-60°	505.1	7.1
60°-70°	376.5	5.3
70°-80°	203.8	2.9
80°-90°	47.8	0.7
90°-100°	288.3	4.1
100°-110°	776.6	10.9
110°-120°	815.0	11.5
120°-130°	661.3	9.3
130°-140°	518.7	7.3
140°-150°	398.2	5.6
150°-160°	286.3	4.0
160°-170°	174.9	2.5
170°-180°	59.0	0.8
0°-30°	880.9	12.4
0°-40°	1434.2	20.2
0°-60°	2506.5	35.2
0°-90°	3134.7	44.1
90°-120°	1879.8	26.4
90°-150°	3458.0	48.6
90°-180°	3978.0	55.9
0°-180°	7112.9	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	5	9	10	10	4
95°	44	157	472	242	167	46
105°	144	224	859	1285	1206	151
115°	254	310	715	1382	1563	250
125°	346	398	642	1085	1277	309
135°	417	465	624	876	992	322
145°	482	520	616	749	804	302
155°	547	567	611	672	693	252
165°	594	600	613	638	641	167
175°	617	616	614	622	621	59
180°	616	616	616	616	616	

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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	10.3	10.7	9.6	9.6
90°	1.6	4.6	9.4	10.2	10.2
92.5°	19.1	67.7	133.8	64.4	44.7
95°	44.0	156.8	472.5	241.6	167.2
97.5°	70.2	179.5	741.2	619.3	466.9
100°	90.3	188.6	826.7	864.9	717.5
102.5°	109.7	201.3	854.9	1048.9	927.9
105°	143.7	223.5	858.8	1284.9	1205.8
107.5°	175.7	246.9	822.2	1406.2	1426.6
110°	197.0	264.6	789.0	1443.8	1518.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.6	282.3	756.9	1435.5	1557.8
115°	253.6	310.3	715.2	1381.8	1563.0
117.5°	284.5	337.8	682.8	1296.2	1498.0
120°	304.6	356.0	666.5	1234.9	1442.1
122.5°	322.2	373.0	654.6	1172.0	1378.6
125°	346.2	397.6	642.2	1085.4	1277.2
127.5°	369.2	419.9	634.3	1008.9	1180.2
130°	383.1	433.8	631.2	965.1	1115.5
132.5°	397.0	447.0	628.0	926.5	1064.7
135°	416.9	465.2	624.1	875.6	991.5
137.5°	435.8	482.2	622.0	832.4	927.6
140°	449.1	493.6	620.2	805.9	891.8
142.5°	462.9	504.3	618.9	781.0	853.5
145°	482.0	519.6	616.2	748.6	803.9
147.5°	502.7	535.4	613.5	721.3	764.8
150°	516.5	545.0	612.4	704.2	740.2
152.5°	529.1	553.8	611.7	690.2	719.5
155°	547.1	567.2	610.8	671.7	693.2
157.5°	563.0	578.5	610.9	658.6	673.0
160°	573.1	586.1	611.6	651.0	661.8
162.5°	581.9	592.4	612.2	644.7	652.3
165°	593.5	600.4	613.1	637.5	640.6
167.5°	602.9	606.9	613.9	632.0	633.2
170°	609.2	610.7	613.9	628.8	628.8
172.5°	612.9	613.2	614.5	625.7	625.7
175°	617.0	616.3	613.9	622.5	620.9
177.5°	618.8	617.5	614.3	619.4	618.2
180°	616.2	616.2	616.2	616.2	616.2

(END OF REPORT)