

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P511866

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

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511866  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-100U-125D-930-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

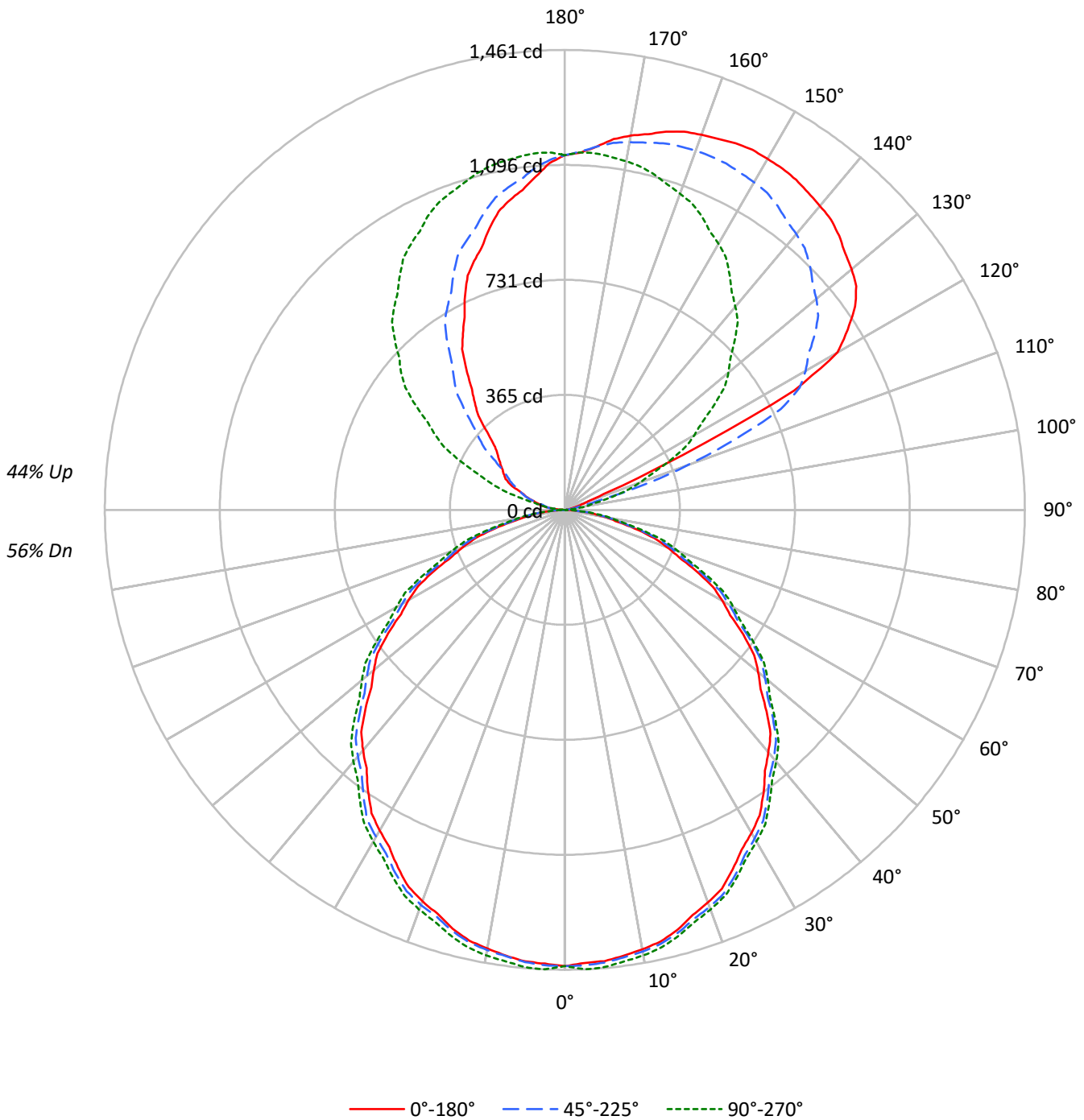
Lumens per Lamp: N/A  
Luminaire Lumens: 7107.8 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 73.8  
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	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	72	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°	90°	180°
0°	46807	46807	46807
5°	46649	47268	46675
10°	46486	47136	46408
15°	46172	46810	46065
20°	45629	46450	45464
25°	44930	45977	44677
30°	44204	45390	43846
35°	43347	44696	42941
40°	42399	44009	42028
45°	41357	43211	40923
50°	40265	42260	39783
55°	38942	41138	38542
60°	37278	39900	36923
65°	35179	38334	34934
70°	32507	36104	32281
75°	28571	32639	28671
80°	23059	27057	23654
85°	13264	18562	15895



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.0	1.9
10°-20°	390.5	5.5
20°-30°	585.2	8.2
30°-40°	696.0	9.8
40°-50°	712.7	10.0
50°-60°	635.4	8.9
60°-70°	474.7	6.7
70°-80°	260.1	3.7
80°-90°	61.5	0.9
90°-100°	27.7	0.4
100°-110°	130.8	1.8
110°-120°	384.4	5.4
120°-130°	558.8	7.9
130°-140°	597.9	8.4
140°-150°	569.9	8.0
150°-160°	470.3	6.6
160°-170°	308.0	4.3
170°-180°	106.8	1.5
0°-30°	1112.7	15.7
0°-40°	1808.7	25.4
0°-60°	3156.8	44.4
0°-90°	3953.0	55.6
90°-120°	542.9	7.6
90°-150°	2269.6	31.9
90°-180°	3155.0	44.4
0°-180°	7107.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1450	1450	1450	1450	1450	
5°	1439	1444	1458	1442	1440	137
15°	1381	1391	1400	1384	1378	389
25°	1261	1280	1290	1274	1254	581
35°	1100	1122	1134	1115	1089	687
45°	906	934	946	923	896	698
55°	692	719	731	711	685	617
65°	460	483	502	479	457	456
75°	229	246	262	244	230	244
85°	36	48	50	49	43	51
90°	2	2	2	3	6	2
95°	8	9	21	34	30	9
105°	35	98	145	93	99	43
115°	413	756	366	175	191	469
125°	1126	969	577	269	248	997
135°	1232	1101	763	451	348	951
145°	1280	1178	912	650	546	802
155°	1285	1214	1029	833	750	594
165°	1243	1206	1102	981	926	353
175°	1158	1158	1137	1089	1062	112
180°	1126	1126	1126	1126	1126	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5
2.5°	1440.6	1447.4	1448.2	1447.2	1460.9	1447.8	1448.2	1446.8	1443.1
5°	1439.1	1440.7	1443.9	1441.9	1458.2	1441.1	1442.3	1439.1	1439.9
7.5°	1429.1	1430.2	1433.7	1430.0	1446.4	1429.8	1430.2	1426.9	1428.6
10°	1417.7	1420.0	1424.8	1420.4	1437.5	1419.7	1420.0	1416.0	1415.3
12.5°	1404.9	1406.0	1412.1	1407.7	1423.5	1406.3	1407.3	1401.4	1401.9
15°	1381.1	1385.0	1390.6	1383.8	1400.2	1383.1	1384.3	1378.7	1377.9
17.5°	1350.1	1356.9	1362.6	1355.8	1372.0	1354.4	1355.5	1347.8	1345.3
20°	1327.8	1334.0	1342.9	1336.1	1351.7	1332.2	1335.8	1323.0	1323.0
22.5°	1303.0	1306.7	1319.4	1312.0	1328.1	1308.7	1311.6	1295.7	1296.3
25°	1261.0	1266.5	1280.1	1274.1	1290.4	1270.2	1273.7	1255.4	1253.9
27.5°	1216.7	1223.0	1237.2	1231.7	1247.8	1227.8	1230.3	1210.2	1207.7
30°	1185.5	1192.5	1205.4	1201.7	1217.3	1197.9	1199.8	1179.1	1175.9
32.5°	1151.1	1159.4	1172.3	1171.8	1184.9	1167.3	1167.4	1146.0	1142.2
35°	1099.6	1107.4	1121.9	1122.1	1133.8	1115.9	1114.7	1093.9	1089.3
37.5°	1044.6	1053.5	1068.3	1070.3	1080.9	1064.2	1059.4	1038.6	1034.6
40°	1005.8	1015.9	1032.0	1034.6	1044.0	1026.1	1022.5	1001.7	997.0
42.5°	967.0	977.1	993.2	997.1	1005.2	990.4	983.1	962.3	957.0
45°	905.6	916.5	934.2	939.9	946.2	932.9	923.1	902.3	896.1
47.5°	843.4	853.5	872.1	879.9	883.8	872.6	862.4	840.7	833.9
50°	801.5	811.6	830.1	837.3	841.2	831.9	819.7	798.1	791.9
52.5°	757.6	767.7	786.2	794.7	798.0	789.9	777.8	756.2	749.9
55°	691.7	700.3	718.8	729.1	730.7	725.3	710.8	690.0	684.6
57.5°	623.0	631.4	649.8	660.9	663.6	658.1	642.8	622.1	617.5
60°	577.2	585.0	602.7	613.9	617.8	612.3	596.3	576.3	571.7
62.5°	530.8	538.0	555.0	566.9	572.0	565.9	549.3	529.9	525.2
65°	460.4	466.6	482.6	498.6	501.7	494.7	478.6	460.3	457.2
67.5°	390.7	395.4	410.4	426.1	430.1	423.0	406.5	390.8	387.1
70°	344.3	348.9	363.4	377.8	382.4	374.7	359.4	345.0	341.9
72.5°	297.8	301.9	316.3	329.4	334.1	327.6	312.3	299.2	296.1
75°	229.0	233.7	246.5	258.5	261.6	256.9	244.1	232.9	229.8
77.5°	164.7	167.7	178.7	188.0	190.7	187.2	177.5	167.6	166.0
80°	124.0	126.4	136.8	144.7	145.5	143.9	136.8	128.8	127.2
82.5°	86.5	89.5	99.2	105.9	104.2	105.1	99.9	92.5	91.6
85°	35.8	37.3	47.7	54.0	50.1	54.0	49.3	43.7	42.9
87.5°	4.3	4.9	8.7	15.5	13.7	16.9	14.0	10.6	10.8
90°	2.4	2.4	2.4	1.6	1.6	2.3	3.1	5.5	6.3
92.5°	4.2	4.2	4.2	5.3	6.0	12.3	8.2	9.2	8.8
95°	7.8	8.6	9.4	24.2	21.2	31.2	33.7	32.1	29.8
97.5°	13.8	14.6	19.6	66.4	46.9	42.3	55.2	58.5	55.4
100°	18.8	19.6	29.0	107.4	68.3	54.4	62.8	73.0	73.0
102.5°	24.5	25.9	46.0	162.0	95.9	68.6	72.2	81.8	84.3
105°	35.3	39.1	98.1	274.0	145.1	91.4	92.6	96.5	98.8
107.5°	55.1	70.7	253.4	379.5	206.9	119.5	122.1	120.6	119.6
110°	77.7	112.9	416.6	444.4	253.4	141.4	139.6	138.8	136.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	145.4	241.5	584.1	501.2	299.2	165.7	153.4	162.6	158.5
115°	413.4	588.3	756.2	580.4	366.4	208.3	174.9	187.6	190.6
117.5°	820.7	887.8	841.1	647.3	431.9	257.4	194.6	206.1	212.1
120°	1000.2	985.7	882.6	692.5	474.6	292.1	210.2	217.4	222.8
122.5°	1064.9	1030.7	917.1	731.4	515.4	329.8	230.3	227.5	234.1
125°	1125.7	1081.3	968.8	784.5	577.4	390.2	269.1	243.3	247.9
127.5°	1166.7	1120.2	1014.3	835.9	638.4	452.3	319.8	268.3	263.6
130°	1189.3	1144.0	1042.6	865.0	678.6	493.7	356.2	290.8	279.3
132.5°	1206.9	1165.3	1067.1	896.4	713.1	533.2	393.8	320.2	303.1
135°	1231.7	1192.5	1100.6	938.2	763.3	591.5	451.1	372.9	348.3
137.5°	1250.6	1214.1	1127.5	974.6	812.4	648.1	509.4	431.8	406.5
140°	1260.7	1225.4	1143.8	996.7	842.5	683.8	548.4	470.1	444.8
142.5°	1269.5	1235.4	1157.6	1018.2	871.4	718.8	589.8	509.1	485.0
145°	1280.3	1248.1	1178.3	1048.9	912.4	770.5	650.3	568.3	546.0
147.5°	1285.5	1256.6	1194.3	1076.0	952.1	819.8	708.9	630.3	606.4
150°	1287.3	1259.7	1201.8	1092.5	975.9	851.6	745.3	671.8	647.2
152.5°	1289.2	1260.4	1206.9	1106.5	997.9	881.0	781.0	711.3	689.3
155°	1285.0	1259.7	1213.6	1123.6	1029.3	922.6	833.1	769.1	750.0
157.5°	1275.3	1258.2	1215.0	1137.5	1054.2	960.5	882.1	824.1	805.2
160°	1267.7	1253.2	1214.4	1145.2	1069.3	984.1	911.6	858.6	841.0
162.5°	1259.6	1244.4	1211.3	1150.4	1083.7	1006.5	940.4	889.5	875.5
165°	1243.4	1229.6	1205.8	1155.9	1102.2	1037.0	981.4	937.2	925.7
167.5°	1222.4	1213.8	1194.3	1157.6	1116.6	1063.7	1016.2	980.9	970.7
170°	1207.3	1201.2	1186.2	1157.2	1124.2	1080.5	1039.5	1007.9	1000.2
172.5°	1187.9	1185.4	1175.5	1154.8	1130.5	1094.1	1059.5	1032.4	1025.3
175°	1157.9	1161.0	1157.9	1149.0	1136.7	1112.2	1088.9	1067.6	1062.2
177.5°	1135.3	1136.5	1138.5	1138.4	1136.6	1125.5	1112.7	1101.5	1102.7
180°	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5

(END OF REPORT)