

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: P522604

Luminaire Tested: **SQW-F-100U-100D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522604  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-100U-100D-93050-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

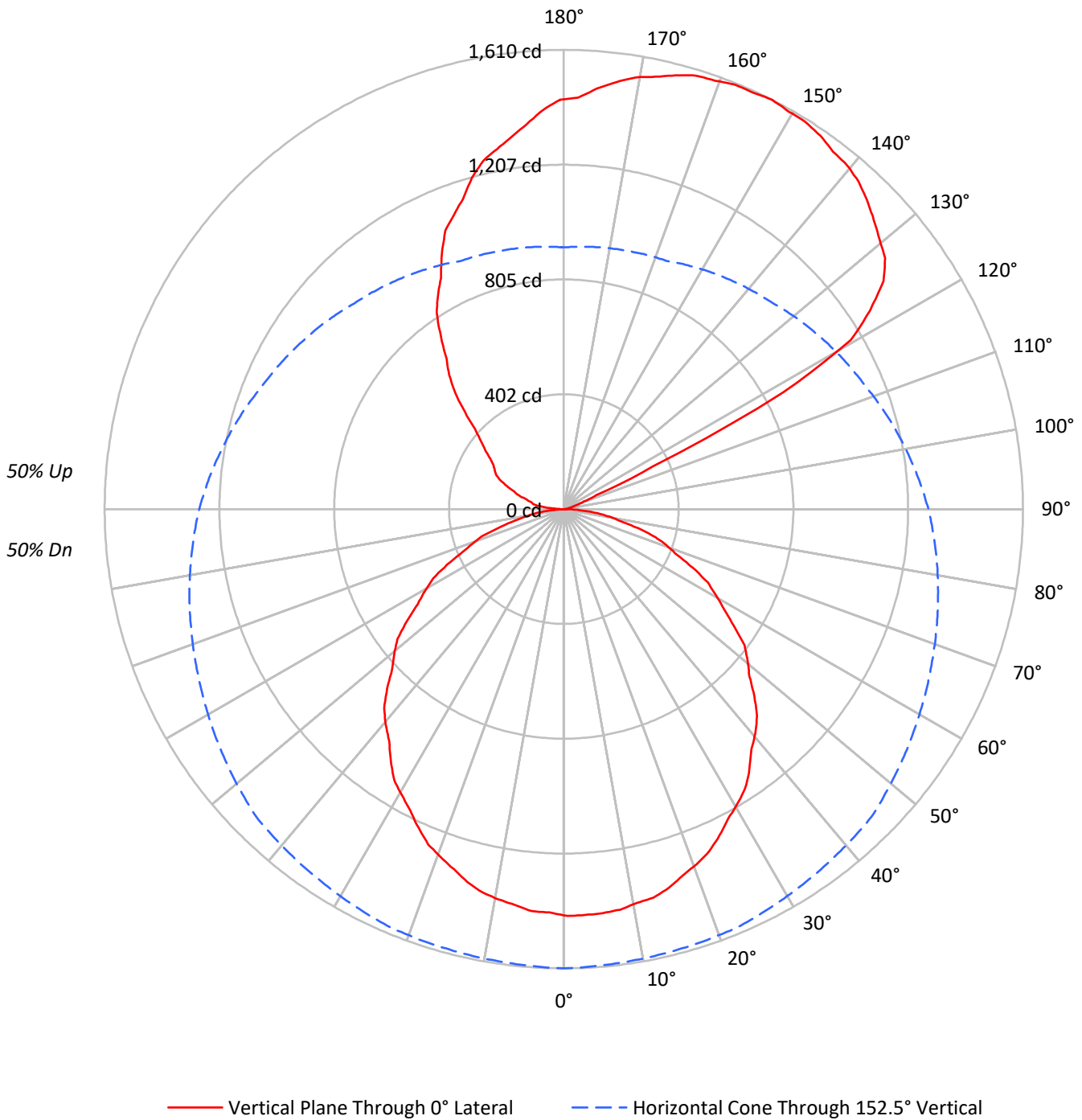
Lumens per Lamp: N/A  
Luminaire Lumens: 7975.5 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 78.7  
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: P522604  
CATALOG NUMBER: SQW-F-100U-100D-93050-1D-UNV-STD-W-4 (3500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P522604

CATALOG NUMBER: SQW-F-100U-100D-93050-1D-UNV-STD-W-4 (3500K)

**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	54	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	58	51	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34	37	33	30	31	27	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	24	22	19
7	58	45	37	32	53	42	35	30	36	30	26	31	26	23	25	22	19	17
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	21	18	16	13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	17	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	23024	23024	23024
5°	23063	23290	22917
10°	23018	23215	22740
15°	23034	23084	22566
20°	22835	22955	22234
25°	22589	22750	21877
30°	22354	22484	21477
35°	22095	22155	21110
40°	21794	21878	20676
45°	21395	21555	20185
50°	20974	21175	19618
55°	20352	20746	18973
60°	19763	20279	18213
65°	19026	19713	17307
70°	18033	18741	16003
75°	16781	17467	14161
80°	15063	14877	11716
85°	11671	11856	7410



TEST NUMBER: P522604

CATALOG NUMBER: SQW-F-100U-100D-93050-1D-UNV-STD-W-4 (3500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.9	1.7
10°-20°	385.5	4.8
20°-30°	579.8	7.3
30°-40°	692.7	8.7
40°-50°	712.2	8.9
50°-60°	641.1	8.0
60°-70°	488.2	6.1
70°-80°	278.4	3.5
80°-90°	73.1	0.9
90°-100°	36.3	0.5
100°-110°	160.8	2.0
110°-120°	462.1	5.8
120°-130°	703.8	8.8
130°-140°	764.0	9.6
140°-150°	730.6	9.2
150°-160°	601.9	7.5
160°-170°	393.9	4.9
170°-180°	136.3	1.7
0°-30°	1100.2	13.8
0°-40°	1792.9	22.5
0°-60°	3146.2	39.4
0°-90°	3985.9	50.0
90°-120°	659.1	8.3
90°-150°	2857.6	35.8
90°-180°	3990.0	50.0
0°-180°	7975.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1426	1426	1426	1426	1426	
5°	1423	1421	1437	1417	1414	135
15°	1378	1378	1381	1361	1350	388
25°	1268	1279	1277	1250	1228	584
35°	1121	1134	1124	1096	1071	700
45°	937	944	944	908	884	722
55°	723	739	737	700	674	649
65°	498	511	516	474	453	492
75°	269	277	280	247	227	285
85°	63	68	64	53	40	74
90°	0	0	0	0	0	2
95°	5	8	25	56	55	7
105°	36	98	185	127	135	42
115°	346	911	466	218	245	479
125°	1376	1199	742	368	313	1208
135°	1517	1374	984	610	486	1171
145°	1588	1478	1174	868	741	995
155°	1604	1538	1315	1089	993	742
165°	1570	1530	1410	1267	1205	445
175°	1478	1482	1453	1388	1355	143
180°	1435	1435	1435	1435	1435	

TEST NUMBER: P522604

CATALOG NUMBER: SQW-F-100U-100D-93050-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1426.0	1426.0	1426.0	1426.0	1426.0	1426.0	1426.0	1426.0	1426.0
2.5°	1424.4	1427.5	1426.0	1423.9	1436.4	1422.3	1424.4	1422.6	1414.8
5°	1423.0	1422.0	1421.0	1422.3	1437.0	1418.4	1417.0	1414.0	1414.0
7.5°	1417.6	1416.6	1415.4	1411.3	1423.2	1404.8	1405.4	1402.3	1398.2
10°	1404.0	1406.9	1405.0	1403.3	1416.0	1394.5	1395.0	1391.9	1387.0
12.5°	1397.6	1397.4	1396.2	1390.5	1402.4	1380.9	1380.6	1376.7	1373.4
15°	1378.0	1377.0	1378.0	1368.3	1381.0	1361.4	1361.0	1352.9	1350.0
17.5°	1349.8	1351.4	1352.8	1342.9	1354.4	1331.1	1330.8	1321.4	1319.6
20°	1329.0	1329.0	1336.0	1325.2	1336.0	1313.5	1314.0	1295.0	1294.0
22.5°	1304.2	1305.8	1313.6	1302.8	1312.0	1288.7	1287.6	1271.7	1267.6
25°	1268.0	1269.0	1279.0	1266.2	1277.0	1252.6	1250.0	1229.0	1228.0
27.5°	1228.6	1228.2	1240.2	1225.4	1234.0	1212.3	1209.2	1187.0	1185.6
30°	1199.0	1197.0	1213.0	1198.2	1206.0	1183.5	1182.0	1154.9	1152.0
32.5°	1167.8	1166.6	1181.0	1168.5	1174.0	1153.1	1145.2	1123.0	1121.6
35°	1121.0	1117.1	1134.0	1121.1	1124.0	1104.4	1096.0	1073.0	1071.0
37.5°	1067.6	1065.8	1078.2	1070.1	1074.8	1054.3	1040.2	1018.2	1017.0
40°	1034.0	1029.1	1043.0	1034.1	1038.0	1017.5	1005.0	983.0	981.0
42.5°	993.2	993.0	1004.6	997.3	1002.0	980.7	965.0	943.7	941.0
45°	937.0	934.1	944.0	942.0	944.0	921.5	908.0	884.0	884.0
47.5°	875.0	873.0	886.4	881.1	883.8	864.2	846.8	825.3	821.8
50°	835.0	833.0	844.0	841.0	843.0	823.4	806.0	783.0	781.0
52.5°	793.4	791.4	803.2	799.4	800.6	783.4	764.4	743.7	740.2
55°	723.0	727.9	739.0	738.0	737.0	719.4	700.0	678.9	674.0
57.5°	662.4	664.4	672.2	673.7	670.4	658.9	635.2	614.7	609.6
60°	612.0	617.9	629.0	629.0	628.0	613.3	588.0	569.9	564.0
62.5°	565.6	572.2	581.8	584.2	583.2	565.4	544.0	526.6	519.2
65°	498.0	502.9	511.0	516.0	516.0	496.4	474.0	457.9	453.0
67.5°	427.6	433.5	441.0	446.9	444.2	426.0	406.6	392.0	383.8
70°	382.0	387.9	393.0	399.0	397.0	380.4	361.0	344.9	339.0
72.5°	335.6	342.2	346.6	351.7	349.0	332.4	315.4	300.8	293.4
75°	269.0	271.0	277.0	281.0	280.0	263.4	247.0	234.8	227.0
77.5°	203.6	204.4	209.4	211.1	206.4	195.8	182.6	173.0	165.2
80°	162.0	162.0	167.0	167.8	160.0	154.1	141.0	133.8	126.0
82.5°	119.6	120.4	127.0	127.1	120.8	114.2	105.0	97.1	92.4
85°	63.0	64.0	68.0	70.8	64.0	60.1	53.0	44.9	40.0
87.5°	16.8	17.6	23.2	26.3	20.0	20.0	12.8	8.8	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	2.1	3.3	5.4	20.0	22.5	20.3	19.3
95°	5.4	5.4	8.0	25.4	25.4	41.1	56.2	54.8	54.8
97.5°	12.0	13.3	18.7	77.4	57.8	56.2	80.3	88.3	89.1
100°	17.4	18.7	29.4	126.2	85.6	72.5	85.6	104.4	108.4
102.5°	23.8	26.2	46.6	199.1	120.9	86.9	100.6	114.1	118.0
105°	36.1	40.0	97.7	333.7	184.6	115.3	127.1	133.8	135.1
107.5°	54.3	69.0	267.3	469.4	261.9	152.6	159.5	164.0	165.6
110°	73.6	105.0	464.2	551.2	319.7	181.1	176.6	188.6	185.9



TEST NUMBER: P522604

CATALOG NUMBER: SQW-F-100U-100D-93050-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	123.9	216.0	681.4	618.4	377.5	214.8	192.6	212.2	213.8
115°	346.5	595.0	911.0	714.0	465.5	273.2	218.0	236.9	244.8
117.5°	869.5	1034.6	1031.9	802.5	550.1	342.1	248.5	257.6	266.5
120°	1169.1	1194.0	1092.9	862.3	604.6	391.4	274.2	270.4	278.2
122.5°	1280.4	1260.3	1138.9	914.8	660.3	442.9	307.4	284.3	291.1
125°	1376.5	1337.2	1198.6	989.6	742.4	518.8	367.9	314.3	313.0
127.5°	1429.7	1388.7	1256.9	1054.6	817.9	597.6	436.6	356.9	344.9
130°	1455.4	1417.5	1297.6	1094.4	868.2	651.0	486.9	394.2	375.9
132.5°	1486.4	1445.4	1326.5	1135.3	916.3	701.3	537.2	439.1	417.6
135°	1516.9	1479.0	1373.8	1188.6	984.5	775.3	610.0	513.0	485.6
137.5°	1544.2	1509.4	1417.1	1230.5	1046.1	848.0	687.0	592.6	559.2
140°	1562.4	1524.5	1435.3	1262.7	1083.5	893.9	738.4	644.2	618.0
142.5°	1568.8	1545.6	1454.6	1289.8	1125.3	937.7	789.8	692.4	668.3
145°	1587.8	1572.1	1478.1	1322.3	1174.5	1003.1	868.2	767.2	741.1
147.5°	1600.1	1576.6	1499.8	1357.4	1222.6	1061.8	939.3	842.5	818.1
150°	1601.2	1582.9	1516.9	1379.0	1254.8	1104.3	983.2	891.7	869.5
152.5°	1609.8	1587.3	1525.5	1397.3	1278.3	1140.4	1027.1	942.0	917.7
155°	1603.9	1588.2	1538.3	1420.9	1314.9	1186.8	1088.9	1013.5	992.6
157.5°	1603.9	1584.5	1539.9	1439.2	1350.3	1237.8	1146.7	1077.0	1061.3
160°	1593.2	1585.3	1541.0	1452.2	1368.5	1266.4	1185.2	1121.8	1100.9
162.5°	1588.9	1575.8	1543.2	1460.9	1384.5	1289.8	1218.4	1158.3	1142.7
165°	1570.4	1558.7	1530.3	1464.9	1409.9	1331.4	1266.8	1213.1	1205.3
167.5°	1549.3	1540.2	1521.5	1471.2	1426.8	1362.7	1308.3	1264.9	1254.2
170°	1534.3	1519.9	1512.9	1474.6	1435.3	1381.7	1335.0	1296.0	1284.2
172.5°	1508.6	1506.8	1501.2	1466.4	1442.8	1398.6	1359.6	1323.9	1316.3
175°	1478.1	1478.1	1482.2	1460.6	1452.7	1416.1	1388.5	1366.9	1355.1
177.5°	1442.8	1443.9	1452.5	1451.4	1452.5	1431.5	1423.6	1403.2	1401.1
180°	1435.3	1435.3	1435.3	1435.3	1435.3	1435.3	1435.3	1435.3	1435.3

(END OF REPORT)