

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: P522472

Luminaire Tested: **SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522472
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7864.5 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

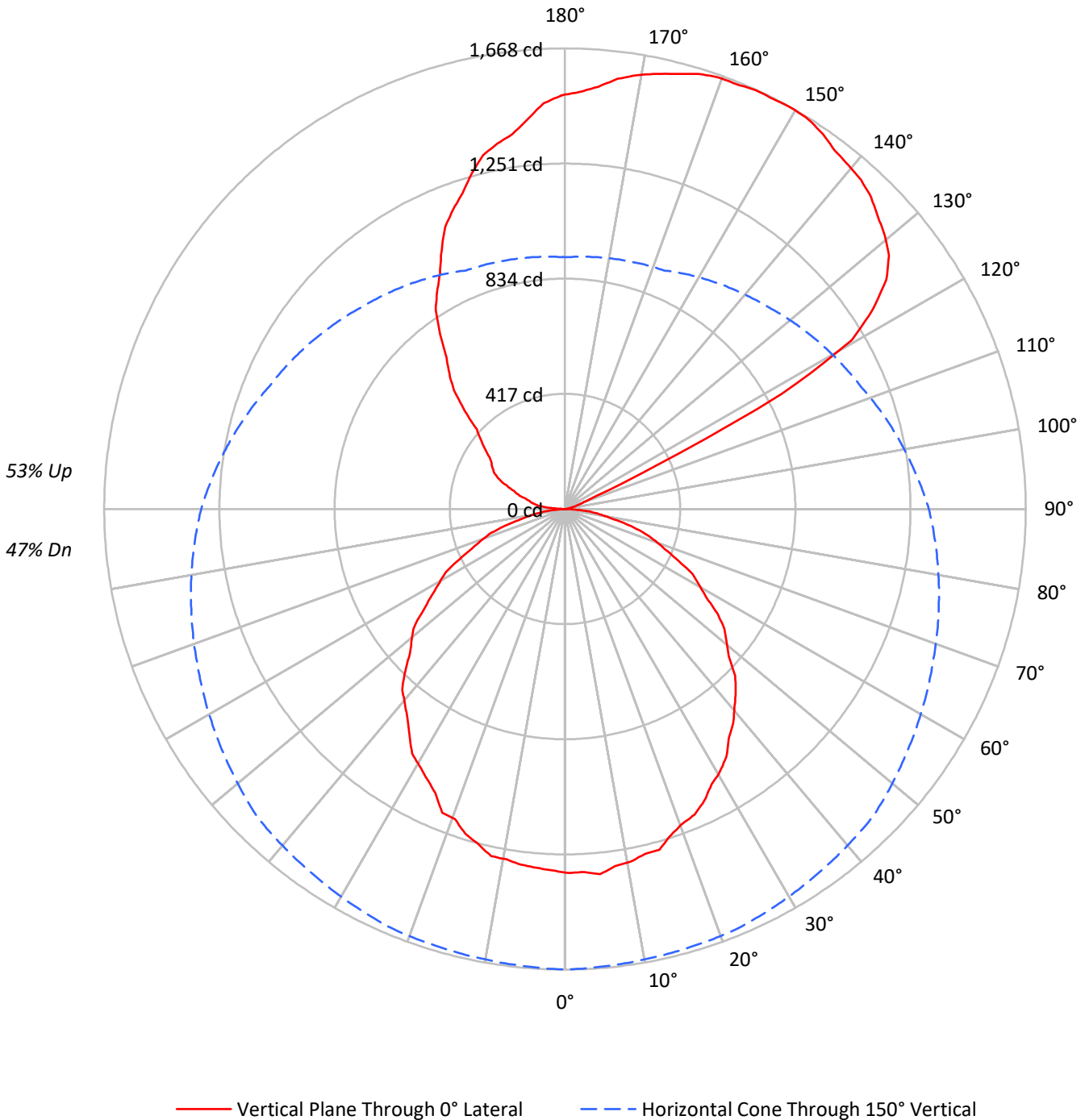
Input Watts (W): 79.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P522472

CATALOG NUMBER: SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (2700K)

Luminous Intensity Polar Plot





TEST NUMBER: P522472

CATALOG NUMBER: SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (2700K)

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	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	97	93	89	85	89	85	82	79	71	69	67	59	57	55	47	46	45	39
2	88	81	75	69	81	74	69	64	62	58	55	51	48	46	41	39	37	33
3	80	71	63	58	73	65	59	54	55	50	46	45	42	39	36	34	32	27
4	73	63	55	49	67	58	51	45	49	43	39	40	36	33	32	30	27	23
5	67	56	47	41	62	51	44	39	43	38	34	36	32	29	29	26	24	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	34	28	23	29	24	20	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	21287	21287	21287
5°	21538	21460	21135
10°	21317	21395	21097
15°	21397	21366	20966
20°	20893	21222	20483
25°	20861	20913	20147
30°	20601	20870	19941
35°	20120	20536	19594
40°	19924	20265	19197
45°	19726	19902	18854
50°	19032	19635	18311
55°	18852	19257	17667
60°	18012	18690	17024
65°	17215	18094	16157
70°	16442	17254	15087
75°	15278	15876	13606
80°	13073	13882	11390
85°	9744	10819	7799



TEST NUMBER: P522472

CATALOG NUMBER: SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (2700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	1.6
10°-20°	356.9	4.5
20°-30°	535.7	6.8
30°-40°	640.4	8.1
40°-50°	659.0	8.4
50°-60°	593.3	7.5
60°-70°	450.6	5.7
70°-80°	257.1	3.3
80°-90°	67.3	0.9
90°-100°	39.4	0.5
100°-110°	170.5	2.2
110°-120°	486.2	6.2
120°-130°	739.2	9.4
130°-140°	799.5	10.2
140°-150°	763.9	9.7
150°-160°	628.3	8.0
160°-170°	410.5	5.2
170°-180°	142.0	1.8
0°-30°	1017.4	12.9
0°-40°	1657.8	21.1
0°-60°	2910.0	37.0
0°-90°	3685.0	46.9
90°-120°	696.0	8.9
90°-150°	2998.7	38.1
90°-180°	4180.0	53.2
0°-180°	7864.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1318	1318	1318	1318	1318	
5°	1329	1318	1324	1301	1304	125
15°	1280	1272	1278	1260	1254	358
25°	1171	1178	1174	1162	1131	538
35°	1021	1046	1042	1019	994	643
45°	864	871	872	852	826	660
55°	670	681	684	656	628	593
65°	451	463	474	441	423	448
75°	245	252	254	232	218	256
85°	53	60	58	53	42	63
90°	0	0	0	0	0	2
95°	6	9	27	64	60	8
105°	39	100	197	135	145	46
115°	359	954	492	234	264	493
125°	1429	1258	787	386	332	1256
135°	1582	1432	1035	642	509	1219
145°	1648	1542	1233	913	778	1032
155°	1667	1593	1377	1143	1038	770
165°	1628	1592	1475	1322	1261	463
175°	1533	1537	1511	1456	1416	149
180°	1498	1498	1498	1498	1498	



TEST NUMBER: P522472

CATALOG NUMBER: SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4
2.5°	1316.9	1327.3	1313.0	1317.1	1329.9	1314.2	1318.4	1310.7	1310.0
5°	1328.9	1313.0	1318.4	1311.0	1324.1	1312.0	1301.2	1315.3	1304.0
7.5°	1306.3	1296.0	1317.0	1306.5	1313.4	1305.2	1306.3	1298.5	1298.3
10°	1300.2	1293.7	1300.2	1300.3	1305.0	1293.8	1292.6	1284.0	1286.8
12.5°	1282.6	1291.8	1281.8	1294.3	1304.2	1284.8	1277.2	1280.2	1285.3
15°	1280.1	1277.3	1272.5	1268.8	1278.2	1255.8	1260.0	1251.5	1254.3
17.5°	1241.3	1246.5	1248.9	1245.9	1254.3	1233.9	1229.0	1229.1	1230.4
20°	1216.0	1227.2	1235.1	1226.7	1235.1	1219.2	1216.0	1204.3	1192.1
22.5°	1202.2	1200.0	1216.0	1199.2	1210.7	1191.0	1199.9	1179.4	1186.0
25°	1171.0	1161.7	1177.7	1168.3	1173.9	1158.0	1161.5	1136.5	1130.9
27.5°	1129.5	1129.5	1139.3	1135.4	1139.3	1126.6	1123.0	1100.2	1098.0
30°	1105.0	1097.5	1115.6	1107.2	1119.4	1089.4	1091.6	1073.4	1069.6
32.5°	1072.1	1075.1	1087.2	1076.7	1091.1	1062.6	1067.9	1039.9	1044.4
35°	1020.8	1026.5	1045.7	1031.6	1041.9	1025.0	1018.9	1000.6	994.1
37.5°	988.1	979.5	988.9	989.7	992.9	974.4	967.6	945.5	947.6
40°	945.3	943.4	956.7	960.6	961.5	943.7	938.6	911.8	910.8
42.5°	906.2	908.1	919.2	923.8	924.0	906.2	905.6	876.6	880.2
45°	863.9	861.1	870.6	869.7	871.6	852.9	852.5	824.7	825.7
47.5°	797.5	803.5	810.0	811.9	819.2	803.3	792.0	769.9	766.5
50°	757.7	769.0	770.2	778.8	781.7	762.0	753.0	734.6	729.0
52.5°	722.5	728.5	733.4	739.1	743.4	725.2	711.6	694.2	693.1
55°	669.7	666.0	681.2	679.4	684.1	670.0	656.3	637.0	627.6
57.5°	601.4	608.7	612.1	619.3	622.5	607.1	595.1	574.6	573.9
60°	557.8	568.1	569.3	581.6	578.8	565.7	553.0	534.6	527.2
62.5°	518.0	520.8	528.7	537.3	538.3	523.7	514.0	494.1	488.9
65°	450.6	456.2	463.1	474.5	473.6	463.3	441.1	430.4	422.9
67.5°	389.6	391.5	400.7	406.1	409.9	395.6	382.9	367.9	364.7
70°	348.3	346.4	357.8	361.7	365.5	354.2	341.6	328.0	319.6
72.5°	303.1	305.0	313.4	319.6	321.8	310.6	297.2	286.7	281.3
75°	244.9	243.1	251.6	255.4	254.5	246.1	232.5	225.6	218.1
77.5°	180.4	184.2	189.2	192.7	191.3	185.7	175.1	164.7	161.5
80°	140.6	144.4	150.2	152.1	149.3	143.6	136.8	127.1	122.5
82.5°	103.9	106.1	111.9	115.3	111.0	107.6	101.6	94.2	88.8
85°	52.6	54.5	60.3	62.1	58.4	58.4	52.6	45.8	42.1
87.5°	12.2	13.0	17.6	22.9	18.4	19.9	15.3	11.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.0	2.0	2.0	4.1	6.1	22.0	24.4	21.4	21.4
95°	6.4	6.4	8.9	27.9	26.7	45.4	63.6	59.8	59.8
97.5°	13.0	14.2	20.3	82.7	62.3	60.6	86.0	95.7	97.4
100°	19.1	20.3	30.5	135.1	92.8	79.1	94.1	112.0	115.7
102.5°	26.2	28.4	48.8	212.5	130.5	92.9	107.3	123.2	127.9
105°	39.4	43.1	100.4	356.2	197.1	121.2	134.8	141.2	145.0
107.5°	58.5	73.7	270.6	500.5	279.7	160.1	174.5	173.5	176.7
110°	78.8	109.9	467.9	579.5	340.8	190.3	190.7	200.8	197.1



TEST NUMBER: P522472

CATALOG NUMBER: SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	130.7	218.5	697.8	655.4	401.8	226.5	206.0	228.4	229.6
115°	358.6	615.9	953.6	761.9	492.1	290.7	234.0	255.8	264.5
117.5°	889.0	1071.5	1084.6	856.4	582.1	362.3	266.0	275.7	287.1
120°	1205.4	1242.7	1145.6	914.4	642.1	413.4	292.4	288.9	301.3
122.5°	1329.5	1316.1	1195.5	968.4	701.1	467.4	325.0	305.1	313.6
125°	1429.2	1394.4	1257.5	1043.2	787.1	548.4	386.5	331.9	331.9
127.5°	1488.7	1448.2	1314.5	1109.5	864.6	630.1	460.5	375.3	363.7
130°	1523.3	1479.8	1349.1	1155.4	915.5	683.0	512.4	412.8	394.2
132.5°	1549.7	1510.2	1381.6	1191.4	965.3	734.8	564.3	459.3	428.8
135°	1581.8	1548.2	1431.7	1246.4	1035.0	812.5	642.1	539.7	508.6
137.5°	1602.4	1576.2	1476.7	1291.6	1099.6	889.5	720.7	617.8	589.7
140°	1613.5	1592.4	1499.1	1318.3	1139.3	939.1	775.6	670.8	644.7
142.5°	1624.7	1607.6	1515.4	1348.0	1177.9	988.7	829.5	724.6	696.5
145°	1647.9	1628.0	1542.3	1383.8	1233.4	1058.1	912.9	803.0	778.2
147.5°	1664.1	1640.3	1564.5	1422.3	1285.7	1120.9	989.5	883.4	858.8
150°	1668.2	1643.4	1576.7	1442.8	1317.3	1159.4	1036.3	935.3	911.7
152.5°	1665.2	1646.3	1585.8	1460.3	1343.7	1196.8	1079.0	985.2	963.5
155°	1666.9	1649.5	1593.2	1484.0	1377.0	1249.0	1143.1	1059.9	1037.5
157.5°	1659.3	1647.9	1598.3	1502.1	1407.8	1295.7	1201.8	1131.9	1109.3
160°	1659.3	1641.9	1598.3	1512.5	1429.2	1326.0	1238.4	1175.7	1157.1
162.5°	1648.1	1632.7	1597.3	1519.9	1449.5	1354.3	1273.0	1214.5	1200.8
165°	1627.5	1615.1	1591.9	1529.7	1474.9	1392.9	1322.4	1270.0	1261.3
167.5°	1611.5	1594.4	1581.8	1529.3	1492.2	1420.6	1364.1	1320.7	1315.8
170°	1593.2	1582.0	1571.6	1526.5	1500.4	1440.7	1393.6	1350.2	1345.3
172.5°	1569.8	1563.6	1558.4	1524.6	1505.5	1457.7	1419.0	1379.6	1370.7
175°	1533.4	1538.4	1537.3	1520.5	1510.6	1479.5	1455.9	1427.6	1416.5
177.5°	1511.1	1509.1	1514.1	1511.0	1510.0	1491.1	1484.6	1465.4	1471.4
180°	1497.8	1497.8	1497.8	1497.8	1497.8	1497.8	1497.8	1497.8	1497.8

(END OF REPORT)