

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: P522478

Luminaire Tested: **SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522478
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 (5700K)
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

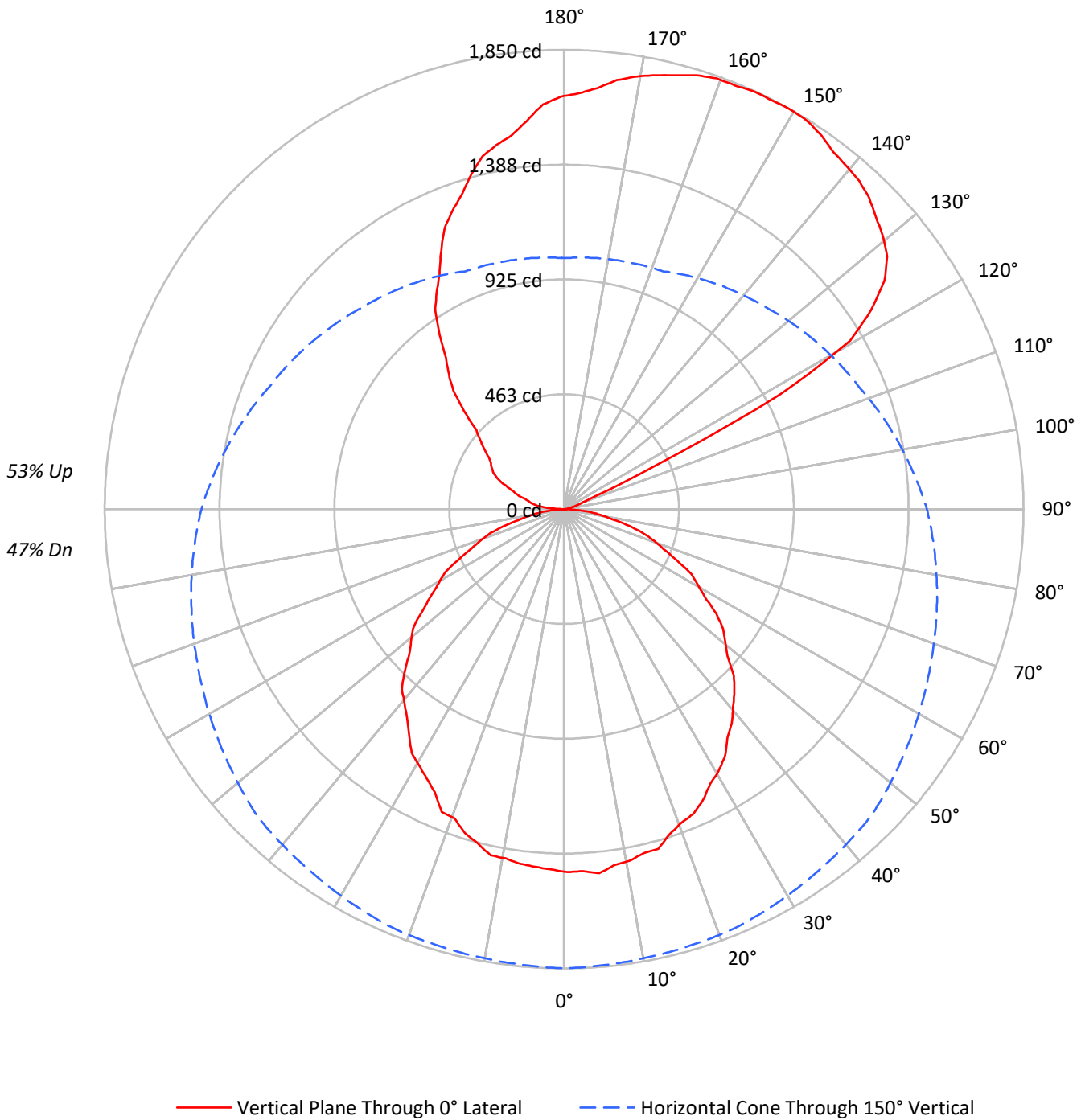
Lumens per Lamp: N/A
Luminaire Lumens: 8722.1 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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



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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	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°	23608	23608	23608
5°	23887	23801	23439
10°	23641	23728	23397
15°	23731	23696	23253
20°	23172	23536	22716
25°	23138	23193	22344
30°	22848	23146	22117
35°	22316	22775	21731
40°	22095	22476	21290
45°	21877	22071	20909
50°	21110	21775	20308
55°	20909	21357	19595
60°	19976	20728	18881
65°	19095	20065	17918
70°	18231	19133	16730
75°	16943	17604	15090
80°	14505	15388	12627
85°	10819	11986	8651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	1.6
10°-20°	395.8	4.5
20°-30°	594.1	6.8
30°-40°	710.2	8.1
40°-50°	730.9	8.4
50°-60°	658.0	7.5
60°-70°	499.7	5.7
70°-80°	285.1	3.3
80°-90°	74.6	0.9
90°-100°	43.7	0.5
100°-110°	189.1	2.2
110°-120°	539.2	6.2
120°-130°	819.8	9.4
130°-140°	886.7	10.2
140°-150°	847.2	9.7
150°-160°	696.8	8.0
160°-170°	455.3	5.2
170°-180°	157.5	1.8
0°-30°	1128.3	12.9
0°-40°	1838.5	21.1
0°-60°	3227.4	37.0
0°-90°	4086.8	46.9
90°-120°	771.9	8.9
90°-150°	3325.7	38.1
90°-180°	4635.0	53.1
0°-180°	8722.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1462	1462	1462	1462	1462	
5°	1474	1462	1468	1443	1446	139
15°	1420	1411	1418	1397	1391	397
25°	1299	1306	1302	1288	1254	597
35°	1132	1160	1156	1130	1102	713
45°	958	966	967	945	916	732
55°	743	756	759	728	696	657
65°	500	514	525	489	469	497
75°	272	279	282	258	242	284
85°	58	67	65	58	47	70
90°	0	0	0	0	0	2
95°	7	10	30	70	66	9
105°	44	111	219	150	161	50
115°	398	1058	546	260	293	547
125°	1585	1395	873	429	368	1393
135°	1754	1588	1148	712	564	1352
145°	1828	1710	1368	1012	863	1145
155°	1849	1767	1527	1268	1151	854
165°	1805	1766	1636	1467	1399	513
175°	1701	1705	1675	1615	1571	165
180°	1661	1661	1661	1661	1661	



TEST NUMBER: P522478

CATALOG NUMBER: SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2
2.5°	1460.5	1472.1	1456.2	1460.8	1474.9	1457.5	1462.2	1453.6	1452.8
5°	1473.8	1456.2	1462.2	1454.0	1468.5	1455.0	1443.1	1458.7	1446.2
7.5°	1448.8	1437.4	1460.7	1449.0	1456.6	1447.5	1448.8	1440.1	1439.9
10°	1442.0	1434.7	1442.0	1442.1	1447.3	1434.9	1433.5	1424.0	1427.1
12.5°	1422.5	1432.6	1421.6	1435.5	1446.5	1424.9	1416.5	1419.8	1425.4
15°	1419.7	1416.6	1411.2	1407.2	1417.6	1392.7	1397.4	1388.0	1391.1
17.5°	1376.6	1382.4	1385.1	1381.7	1391.1	1368.4	1363.1	1363.1	1364.5
20°	1348.6	1361.1	1369.8	1360.5	1369.8	1352.2	1348.6	1335.6	1322.1
22.5°	1333.3	1330.9	1348.6	1330.0	1342.7	1320.9	1330.8	1308.0	1315.3
25°	1298.8	1288.4	1306.2	1295.7	1301.9	1284.3	1288.1	1260.4	1254.2
27.5°	1252.7	1252.7	1263.5	1259.2	1263.5	1249.4	1245.5	1220.2	1217.7
30°	1225.5	1217.2	1237.2	1228.0	1241.5	1208.3	1210.7	1190.4	1186.3
32.5°	1189.0	1192.4	1205.8	1194.1	1210.0	1178.5	1184.4	1153.3	1158.3
35°	1132.2	1138.4	1159.8	1144.1	1155.5	1136.8	1130.0	1109.7	1102.5
37.5°	1095.9	1086.3	1096.7	1097.7	1101.2	1080.6	1073.2	1048.6	1050.9
40°	1048.3	1046.3	1061.1	1065.3	1066.4	1046.7	1040.9	1011.2	1010.1
42.5°	1005.0	1007.1	1019.5	1024.6	1024.8	1005.1	1004.4	972.2	976.2
45°	958.1	955.0	965.6	964.6	966.6	945.9	945.4	914.7	915.7
47.5°	884.5	891.1	898.3	900.4	908.5	890.9	878.4	853.9	850.1
50°	840.4	852.8	854.2	863.8	866.9	845.1	835.1	814.8	808.5
52.5°	801.3	808.0	813.4	819.7	824.5	804.3	789.2	769.9	768.6
55°	742.8	738.6	755.5	753.5	758.7	743.1	727.9	706.4	696.1
57.5°	667.0	675.1	678.9	686.8	690.3	673.3	660.0	637.3	636.4
60°	618.6	630.0	631.3	645.1	641.9	627.4	613.3	593.0	584.7
62.5°	574.5	577.6	586.3	595.9	597.0	580.8	570.0	548.0	542.2
65°	499.8	506.0	513.6	526.3	525.2	513.8	489.2	477.3	469.0
67.5°	432.1	434.1	444.4	450.4	454.6	438.8	424.6	408.0	404.5
70°	386.2	384.2	396.8	401.2	405.3	392.9	378.8	363.7	354.4
72.5°	336.1	338.2	347.6	354.5	356.9	344.5	329.6	318.0	312.0
75°	271.6	269.6	279.1	283.3	282.2	272.9	257.8	250.2	241.9
77.5°	200.1	204.3	209.9	213.7	212.2	206.0	194.2	182.6	179.1
80°	156.0	160.1	166.6	168.6	165.5	159.3	151.7	141.0	135.8
82.5°	115.2	117.7	124.1	127.9	123.1	119.3	112.7	104.5	98.5
85°	58.4	60.4	66.8	68.9	64.7	64.7	58.4	50.8	46.7
87.5°	13.6	14.4	19.5	25.4	20.4	22.0	17.0	12.7	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.3	2.3	2.3	4.6	6.8	24.4	27.1	23.7	23.7
95°	7.1	7.1	9.9	31.0	29.6	50.3	70.5	66.3	66.3
97.5°	14.4	15.8	22.6	91.7	69.1	67.2	95.3	106.1	108.0
100°	21.2	22.5	33.8	149.8	102.9	87.8	104.4	124.2	128.3
102.5°	29.0	31.5	54.2	235.7	144.7	103.0	119.0	136.6	141.9
105°	43.7	47.9	111.4	395.1	218.6	134.5	149.5	156.6	160.8
107.5°	64.9	81.7	300.1	555.1	310.2	177.6	193.5	192.4	196.0
110°	87.4	121.9	518.9	642.7	377.9	211.1	211.5	222.7	218.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	145.0	242.3	773.9	726.9	445.6	251.2	228.4	253.3	254.7
115°	397.7	683.1	1057.6	844.9	545.7	322.4	259.5	283.7	293.3
117.5°	986.0	1188.4	1202.9	949.7	645.6	401.8	295.0	305.7	318.4
120°	1336.8	1378.2	1270.6	1014.1	712.1	458.4	324.3	320.4	334.2
122.5°	1474.5	1459.6	1325.8	1074.0	777.6	518.3	360.4	338.4	347.7
125°	1585.0	1546.4	1394.7	1156.9	872.9	608.2	428.7	368.1	368.1
127.5°	1651.0	1606.1	1457.8	1230.5	958.9	698.9	510.8	416.3	403.3
130°	1689.4	1641.1	1496.2	1281.4	1015.3	757.5	568.3	457.8	437.2
132.5°	1718.7	1674.9	1532.3	1321.3	1070.6	815.0	625.8	509.4	475.5
135°	1754.2	1717.0	1587.8	1382.3	1147.9	901.1	712.1	598.5	564.1
137.5°	1777.1	1748.1	1637.8	1432.4	1219.5	986.5	799.3	685.2	654.0
140°	1789.5	1766.1	1662.6	1462.1	1263.5	1041.5	860.2	743.9	715.0
142.5°	1801.9	1782.9	1680.6	1495.0	1306.4	1096.5	920.0	803.7	772.5
145°	1827.6	1805.5	1710.5	1534.7	1367.9	1173.4	1012.5	890.6	863.0
147.5°	1845.6	1819.2	1735.1	1577.4	1426.0	1243.1	1097.4	979.7	952.4
150°	1850.1	1822.6	1748.6	1600.2	1460.9	1285.8	1149.3	1037.3	1011.1
152.5°	1846.8	1825.8	1758.8	1619.6	1490.3	1327.3	1196.7	1092.6	1068.6
155°	1848.7	1829.4	1766.9	1645.8	1527.2	1385.2	1267.7	1175.5	1150.7
157.5°	1840.3	1827.6	1772.6	1665.9	1561.3	1437.0	1332.9	1255.3	1230.2
160°	1840.3	1821.0	1772.6	1677.4	1585.0	1470.6	1373.5	1303.9	1283.3
162.5°	1827.9	1810.8	1771.5	1685.6	1607.6	1502.0	1411.9	1346.9	1331.8
165°	1805.0	1791.2	1765.5	1696.5	1635.8	1544.8	1466.6	1408.5	1398.9
167.5°	1787.2	1768.2	1754.2	1696.1	1655.0	1575.6	1512.8	1464.8	1459.2
170°	1766.9	1754.5	1743.0	1693.0	1664.0	1597.8	1545.5	1497.5	1492.0
172.5°	1741.0	1734.1	1728.3	1690.9	1669.6	1616.7	1573.7	1530.1	1520.2
175°	1700.7	1706.2	1704.9	1686.3	1675.3	1640.8	1614.6	1583.3	1570.9
177.5°	1675.8	1673.6	1679.2	1675.8	1674.7	1653.8	1646.5	1625.2	1631.8
180°	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2

(END OF REPORT)