

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: P522479

Luminaire Tested: **SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522479
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

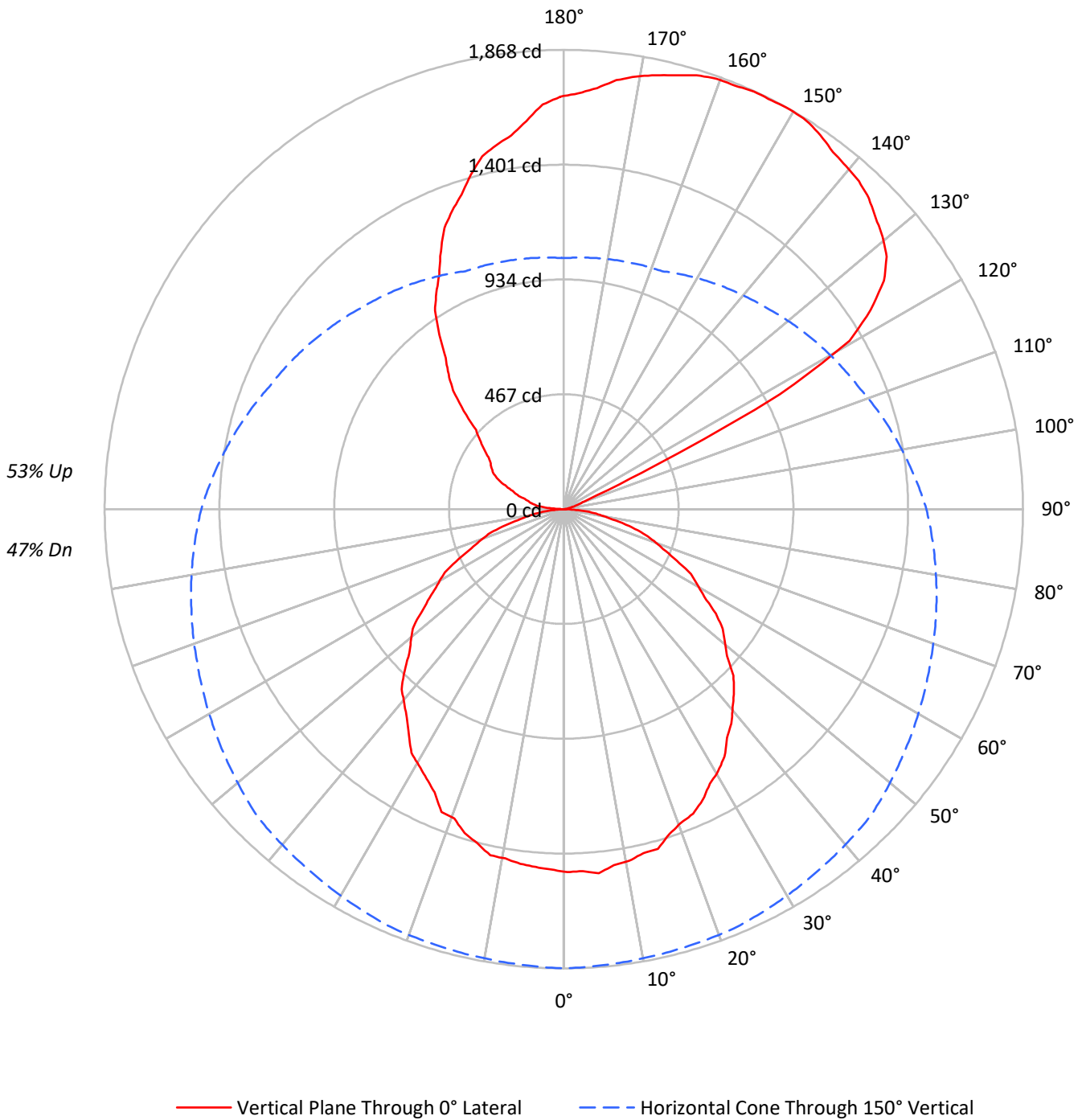
Lumens per Lamp: N/A
Luminaire Lumens: 8804.8 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79.3
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: P522479
CATALOG NUMBER: SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (6500K)

Luminous Intensity Polar Plot





TEST NUMBER: P522479

CATALOG NUMBER: SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (6500K)

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°	23831	23831	23831
5°	24114	24026	23663
10°	23866	23953	23620
15°	23957	23920	23473
20°	23392	23759	22931
25°	23357	23414	22556
30°	23066	23364	22326
35°	22527	22992	21936
40°	22306	22689	21492
45°	22085	22281	21107
50°	21308	21981	20502
55°	21106	21560	19781
60°	20166	20925	19059
65°	19274	20256	18086
70°	18406	19317	16891
75°	17105	17773	15234
80°	14644	15537	12748
85°	10911	12097	8725



TEST NUMBER: P522479

CATALOG NUMBER: SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	1.6
10°-20°	399.5	4.5
20°-30°	599.8	6.8
30°-40°	717.0	8.1
40°-50°	737.8	8.4
50°-60°	664.2	7.5
60°-70°	504.4	5.7
70°-80°	287.8	3.3
80°-90°	75.3	0.9
90°-100°	44.1	0.5
100°-110°	190.9	2.2
110°-120°	544.3	6.2
120°-130°	827.6	9.4
130°-140°	895.1	10.2
140°-150°	855.3	9.7
150°-160°	703.4	8.0
160°-170°	459.6	5.2
170°-180°	159.0	1.8
0°-30°	1139.0	12.9
0°-40°	1856.0	21.1
0°-60°	3258.0	37.0
0°-90°	4125.6	46.9
90°-120°	779.2	8.8
90°-150°	3357.2	38.1
90°-180°	4679.0	53.1
0°-180°	8804.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1476	1476	1476	1476	1476	
5°	1488	1476	1482	1457	1460	140
15°	1433	1425	1431	1411	1404	400
25°	1311	1319	1314	1300	1266	602
35°	1143	1171	1166	1141	1113	720
45°	967	975	976	954	924	739
55°	750	763	766	735	703	664
65°	504	518	530	494	473	502
75°	274	282	285	260	244	287
85°	59	68	65	59	47	71
90°	0	0	0	0	0	2
95°	7	10	30	71	67	9
105°	44	112	221	151	162	51
115°	401	1068	551	262	296	552
125°	1600	1408	881	433	372	1406
135°	1771	1603	1159	719	569	1365
145°	1845	1727	1381	1022	871	1156
155°	1866	1784	1542	1280	1162	862
165°	1822	1782	1651	1480	1412	518
175°	1717	1721	1691	1630	1586	166
180°	1677	1677	1677	1677	1677	



TEST NUMBER: P522479

CATALOG NUMBER: SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0
2.5°	1474.3	1486.0	1470.0	1474.6	1488.9	1471.3	1476.0	1467.4	1466.6
5°	1487.8	1470.0	1476.0	1467.8	1482.4	1468.8	1456.7	1472.5	1460.0
7.5°	1462.5	1451.0	1474.5	1462.7	1470.5	1461.2	1462.5	1453.7	1453.5
10°	1455.7	1448.3	1455.7	1455.8	1461.0	1448.5	1447.1	1437.5	1440.7
12.5°	1436.0	1446.2	1435.1	1449.1	1460.2	1438.4	1430.0	1433.3	1439.0
15°	1433.2	1430.0	1424.6	1420.6	1431.0	1405.9	1410.7	1401.1	1404.3
17.5°	1389.7	1395.6	1398.3	1394.8	1404.3	1381.4	1376.0	1376.0	1377.5
20°	1361.4	1374.0	1382.8	1373.4	1382.8	1365.0	1361.4	1348.2	1334.6
22.5°	1346.0	1343.5	1361.4	1342.6	1355.4	1333.4	1343.4	1320.4	1327.8
25°	1311.1	1300.6	1318.6	1308.0	1314.3	1296.5	1300.4	1272.4	1266.1
27.5°	1264.6	1264.6	1275.5	1271.1	1275.5	1261.3	1257.3	1231.7	1229.2
30°	1237.2	1228.8	1248.9	1239.6	1253.2	1219.7	1222.2	1201.7	1197.5
32.5°	1200.3	1203.7	1217.2	1205.4	1221.5	1189.7	1195.6	1164.2	1169.2
35°	1142.9	1149.2	1170.7	1154.9	1166.5	1147.6	1140.8	1120.2	1112.9
37.5°	1106.3	1096.6	1107.1	1108.1	1111.6	1090.9	1083.3	1058.5	1060.9
40°	1058.3	1056.2	1071.1	1075.4	1076.5	1056.6	1050.8	1020.8	1019.7
42.5°	1014.6	1016.7	1029.1	1034.3	1034.5	1014.6	1013.9	981.5	985.4
45°	967.2	964.1	974.7	973.7	975.8	954.9	954.4	923.3	924.4
47.5°	892.9	899.6	906.8	908.9	917.1	899.3	886.7	862.0	858.2
50°	848.3	860.9	862.3	872.0	875.1	853.1	843.0	822.5	816.2
52.5°	808.9	815.6	821.1	827.5	832.3	812.0	796.7	777.2	775.9
55°	749.8	745.6	762.6	760.6	765.9	750.2	734.8	713.1	702.7
57.5°	673.3	681.5	685.3	693.3	696.9	679.7	666.2	643.3	642.5
60°	624.5	636.0	637.3	651.2	648.0	633.4	619.1	598.6	590.2
62.5°	579.9	583.1	591.9	601.6	602.6	586.3	575.4	553.2	547.3
65°	504.5	510.8	518.4	531.3	530.2	518.7	493.8	481.8	473.4
67.5°	436.2	438.3	448.6	454.7	458.9	443.0	428.7	411.9	408.3
70°	389.9	387.8	400.6	405.0	409.2	396.6	382.4	367.2	357.8
72.5°	339.3	341.4	350.9	357.8	360.3	347.8	332.7	321.0	314.9
75°	274.2	272.1	281.7	286.0	284.9	275.5	260.3	252.6	244.2
77.5°	202.0	206.2	211.9	215.7	214.2	207.9	196.0	184.4	180.8
80°	157.5	161.6	168.2	170.2	167.1	160.8	153.2	142.3	137.1
82.5°	116.3	118.8	125.3	129.1	124.3	120.5	113.8	105.5	99.4
85°	58.9	61.0	67.5	69.5	65.3	65.3	58.9	51.3	47.1
87.5°	13.7	14.5	19.7	25.6	20.6	22.2	17.1	12.8	9.4
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	24.6	27.3	23.9	23.9
95°	7.1	7.1	10.0	31.3	29.9	50.8	71.2	66.9	66.9
97.5°	14.5	15.9	22.8	92.6	69.8	67.8	96.2	107.1	109.0
100°	21.4	22.7	34.2	151.2	103.9	88.6	105.3	125.4	129.5
102.5°	29.3	31.8	54.7	237.9	146.1	104.0	120.1	137.9	143.2
105°	44.1	48.3	112.5	398.8	220.6	135.7	150.9	158.1	162.3
107.5°	65.5	82.5	302.9	560.4	313.2	179.3	195.3	194.3	197.9
110°	88.3	123.1	523.9	648.8	381.5	213.1	213.5	224.8	220.6



TEST NUMBER: P522479

CATALOG NUMBER: SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	146.3	244.6	781.2	733.8	449.8	253.6	230.6	255.7	257.1
115°	401.4	689.6	1067.7	853.0	550.9	325.4	261.9	286.4	296.1
117.5°	995.3	1199.7	1214.3	958.7	651.7	405.6	297.8	308.6	321.4
120°	1349.5	1391.3	1282.6	1023.7	718.9	462.8	327.4	323.5	337.4
122.5°	1488.5	1473.4	1338.4	1084.2	784.9	523.3	363.9	341.6	351.0
125°	1600.1	1561.1	1407.9	1167.9	881.2	613.9	432.8	371.5	371.5
127.5°	1666.7	1621.3	1471.7	1242.2	968.0	705.5	515.6	420.2	407.1
130°	1705.4	1656.7	1510.4	1293.6	1024.9	764.7	573.7	462.2	441.3
132.5°	1735.0	1690.7	1546.8	1333.8	1080.7	822.7	631.8	514.3	480.0
135°	1770.9	1733.3	1602.9	1395.4	1158.8	909.6	718.9	604.2	569.4
137.5°	1793.9	1764.7	1653.3	1446.0	1231.1	995.8	806.9	691.7	660.2
140°	1806.5	1782.8	1678.4	1475.9	1275.5	1051.4	868.4	751.0	721.7
142.5°	1819.0	1799.8	1696.6	1509.2	1318.8	1106.9	928.7	811.3	779.8
145°	1844.9	1822.6	1726.8	1549.3	1380.8	1184.6	1022.1	899.0	871.2
147.5°	1863.1	1836.4	1751.5	1592.3	1439.5	1254.9	1107.8	989.0	961.5
150°	1867.7	1839.8	1765.2	1615.4	1474.8	1298.0	1160.2	1047.1	1020.7
152.5°	1864.3	1843.1	1775.4	1635.0	1504.4	1339.9	1208.0	1103.0	1078.8
155°	1866.3	1846.8	1783.7	1661.4	1541.7	1398.3	1279.8	1186.7	1161.6
157.5°	1857.7	1844.9	1789.4	1681.6	1576.1	1450.6	1345.5	1267.2	1241.9
160°	1857.7	1838.2	1789.4	1693.3	1600.1	1484.5	1386.5	1316.3	1295.4
162.5°	1845.2	1827.9	1788.2	1701.6	1622.8	1516.2	1425.2	1359.7	1344.4
165°	1822.1	1808.2	1782.3	1712.5	1651.3	1559.4	1480.5	1421.9	1412.1
167.5°	1804.2	1785.0	1770.9	1712.1	1670.7	1590.5	1527.2	1478.6	1473.1
170°	1783.7	1771.2	1759.5	1709.0	1679.8	1613.0	1560.2	1511.7	1506.1
172.5°	1757.5	1750.5	1744.7	1706.9	1685.5	1632.0	1588.7	1544.6	1534.6
175°	1716.8	1722.4	1721.1	1702.3	1691.2	1656.4	1630.0	1598.3	1585.8
177.5°	1691.7	1689.5	1695.1	1691.7	1690.6	1669.4	1662.1	1640.6	1647.3
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9

(END OF REPORT)