

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: P522481

Luminaire Tested: **SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522481
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-125D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

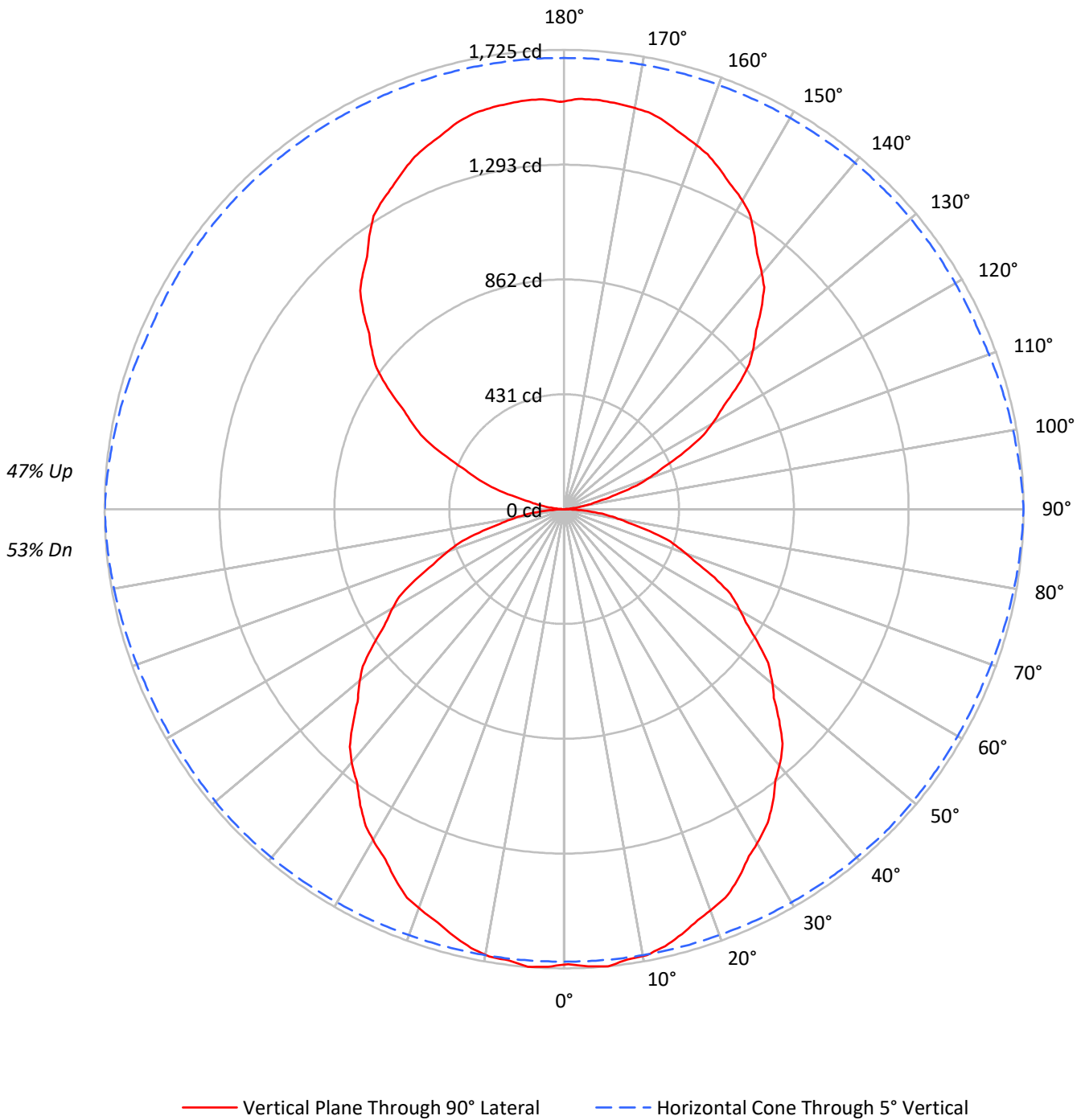
Lumens per Lamp: N/A
Luminaire Lumens: 9036.3 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 94.6
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: P522481
CATALOG NUMBER: SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P522481

CATALOG NUMBER: SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (3000K)

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	98	94	90	86	91	87	84	81	74	72	69	63	61	59	52	50	49	44
2	89	82	76	70	82	76	70	66	65	61	57	55	52	49	45	43	41	37
3	81	72	64	58	75	67	60	55	57	52	48	48	45	41	40	37	35	31
4	74	63	55	49	69	59	52	46	51	45	41	43	39	35	36	33	30	26
5	68	56	48	42	63	53	45	40	45	39	35	38	34	31	32	29	26	23
6	63	51	42	36	58	47	40	34	41	35	31	35	30	27	29	26	23	20
7	58	46	38	32	54	43	35	30	37	31	27	32	27	24	26	23	20	18
8	54	41	34	28	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	21	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	27593	27593	27593
5°	27540	27951	27460
10°	27586	27922	27234
15°	27554	27686	27244
20°	27283	27484	26663
25°	26861	27227	26306
30°	26690	26892	25963
35°	26274	26621	25332
40°	25914	26346	25029
45°	25398	25843	24395
50°	24825	25387	23893
55°	24192	24769	23037
60°	23431	24312	22294
65°	22384	23690	21005
70°	21158	22405	19733
75°	19370	20711	17792
80°	16709	17982	15072
85°	11949	13931	10485



TEST NUMBER: P522481

CATALOG NUMBER: SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	1.8
10°-20°	461.9	5.1
20°-30°	695.0	7.7
30°-40°	830.2	9.2
40°-50°	853.1	9.4
50°-60°	766.8	8.5
60°-70°	582.9	6.5
70°-80°	332.1	3.7
80°-90°	86.5	1.0
90°-100°	40.2	0.4
100°-110°	174.0	1.9
110°-120°	496.2	5.5
120°-130°	754.5	8.3
130°-140°	816.1	9.0
140°-150°	779.8	8.6
150°-160°	641.3	7.1
160°-170°	419.1	4.6
170°-180°	144.9	1.6
0°-30°	1318.6	14.6
0°-40°	2148.8	23.8
0°-60°	3768.7	41.7
0°-90°	4770.2	52.8
90°-120°	710.4	7.9
90°-150°	3060.8	33.9
90°-180°	4266.0	47.2
0°-180°	9036.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1709	1709	1709	1709	1709	
5°	1699	1710	1725	1698	1694	162
15°	1648	1643	1656	1638	1630	464
25°	1508	1533	1528	1509	1477	697
35°	1333	1352	1351	1320	1285	833
45°	1112	1125	1132	1096	1068	855
55°	859	877	880	841	818	766
65°	586	600	620	579	550	579
75°	310	321	332	305	285	328
85°	64	77	75	67	57	79
90°	0	0	0	0	0	2
95°	6	9	27	65	61	8
105°	40	102	201	138	148	46
115°	366	973	502	239	270	503
125°	1459	1284	803	394	339	1282
135°	1614	1461	1056	655	519	1244
145°	1682	1574	1259	932	794	1054
155°	1702	1626	1406	1167	1059	786
165°	1661	1625	1506	1350	1288	472
175°	1565	1569	1542	1486	1446	152
180°	1529	1529	1529	1529	1529	



TEST NUMBER: P522481

CATALOG NUMBER: SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1709.0	1709.0	1709.0	1709.0	1709.0	1709.0	1709.0	1709.0	1709.0
2.5°	1706.6	1705.1	1712.1	1704.6	1719.1	1711.5	1706.6	1709.4	1694.1
5°	1699.2	1703.0	1710.0	1703.6	1724.6	1694.1	1698.2	1695.3	1694.3
7.5°	1693.6	1696.6	1694.7	1690.8	1707.8	1688.3	1686.5	1680.2	1678.3
10°	1682.6	1686.4	1680.7	1683.1	1703.1	1674.5	1674.8	1659.2	1661.1
12.5°	1662.3	1670.7	1669.0	1660.5	1684.4	1660.3	1665.4	1654.4	1650.2
15°	1648.4	1639.8	1642.6	1644.8	1656.3	1629.5	1637.7	1624.2	1629.9
17.5°	1619.1	1613.8	1615.6	1609.9	1623.1	1595.6	1600.0	1589.2	1585.4
20°	1587.9	1587.9	1589.8	1587.2	1599.6	1572.9	1574.2	1555.6	1551.8
22.5°	1564.5	1560.6	1571.1	1562.9	1573.8	1547.9	1547.7	1524.6	1533.0
25°	1507.8	1512.6	1533.2	1515.0	1528.3	1495.9	1508.8	1483.3	1476.6
27.5°	1464.5	1466.0	1477.3	1467.4	1476.8	1451.7	1463.3	1431.0	1421.5
30°	1431.6	1427.8	1449.2	1433.8	1442.4	1424.2	1425.8	1390.7	1392.6
32.5°	1386.3	1387.1	1410.9	1400.1	1404.1	1379.9	1384.4	1359.1	1348.8
35°	1333.0	1333.0	1352.5	1341.0	1350.6	1321.0	1320.3	1293.8	1285.2
37.5°	1270.9	1264.8	1288.5	1282.4	1289.8	1262.3	1252.7	1227.6	1222.7
40°	1229.5	1225.7	1243.2	1239.5	1250.0	1223.3	1209.0	1185.6	1187.5
42.5°	1176.4	1180.2	1194.7	1196.4	1202.3	1173.3	1164.5	1137.9	1139.8
45°	1112.3	1110.4	1125.0	1124.2	1131.8	1107.0	1095.7	1064.5	1068.4
47.5°	1032.8	1035.5	1051.2	1049.5	1060.0	1037.8	1019.7	998.9	994.1
50°	988.3	990.2	1002.0	1004.1	1010.7	987.8	973.6	952.1	951.2
52.5°	934.4	932.5	949.6	954.0	959.2	942.4	924.4	899.7	896.5
55°	859.4	860.3	877.0	883.7	879.9	868.4	840.8	816.5	818.4
57.5°	777.2	784.2	792.0	803.7	804.5	786.0	768.0	744.3	740.4
60°	725.6	726.5	741.2	752.9	752.9	732.9	710.9	690.4	690.4
62.5°	667.0	671.8	684.2	695.2	700.6	684.4	657.0	635.7	634.2
65°	585.9	586.9	599.6	614.4	620.1	598.2	579.1	554.6	549.8
67.5°	502.2	506.2	516.4	528.1	534.8	511.1	491.0	471.9	473.4
70°	448.2	449.2	457.0	471.7	474.6	455.5	435.5	418.0	418.0
72.5°	389.6	396.0	402.3	415.5	417.6	400.8	384.8	367.9	364.1
75°	310.5	315.3	321.3	329.2	332.0	317.7	304.7	289.9	285.2
77.5°	232.0	236.6	246.7	247.8	247.3	237.3	227.1	216.1	211.3
80°	179.7	183.5	194.3	196.2	193.4	185.7	174.8	166.9	162.1
82.5°	130.5	137.3	145.1	147.0	143.4	139.5	130.3	120.8	116.8
85°	64.5	68.3	77.1	80.9	75.2	73.3	67.4	59.5	56.6
87.5°	12.5	15.6	23.4	28.8	21.9	25.7	19.5	14.0	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.1	2.1	2.1	4.2	6.2	22.5	24.9	21.8	21.8
95°	6.5	6.5	9.1	28.5	27.3	46.3	64.9	61.0	61.0
97.5°	13.2	14.5	20.8	84.4	63.6	61.8	87.7	97.6	99.4
100°	19.5	20.7	31.1	137.9	94.7	80.8	96.0	114.3	118.1
102.5°	26.7	29.0	49.8	216.9	133.2	94.8	109.5	125.7	130.6
105°	40.2	44.0	102.5	363.6	201.2	123.8	137.6	144.1	148.0
107.5°	59.7	75.2	276.2	510.9	285.5	163.4	178.1	177.1	180.4
110°	80.5	112.2	477.6	591.5	347.8	194.3	194.7	205.0	201.2



TEST NUMBER: P522481

CATALOG NUMBER: SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	133.4	223.0	712.3	669.0	410.1	231.2	210.3	233.1	234.4
115°	366.0	628.7	973.4	777.6	502.3	296.7	238.8	261.1	270.0
117.5°	907.5	1093.8	1107.1	874.1	594.2	369.8	271.5	281.4	293.1
120°	1230.4	1268.4	1169.4	933.3	655.4	421.9	298.5	294.9	307.6
122.5°	1357.0	1343.3	1220.2	988.5	715.6	477.1	331.7	311.4	320.1
125°	1458.8	1423.3	1283.6	1064.8	803.4	559.7	394.5	338.7	338.7
127.5°	1519.5	1478.2	1341.7	1132.5	882.5	643.2	470.1	383.1	371.2
130°	1554.8	1510.4	1377.0	1179.4	934.5	697.2	523.0	421.4	402.3
132.5°	1581.8	1541.5	1410.3	1216.0	985.3	750.1	576.0	468.9	437.6
135°	1614.5	1580.3	1461.4	1272.2	1056.5	829.3	655.4	550.9	519.1
137.5°	1635.6	1608.9	1507.3	1318.3	1122.4	907.9	735.6	630.6	601.9
140°	1647.0	1625.4	1530.2	1345.6	1162.9	958.6	791.7	684.7	658.0
142.5°	1658.4	1640.9	1546.8	1375.9	1202.3	1009.2	846.7	739.6	711.0
145°	1682.0	1661.7	1574.3	1412.5	1258.9	1080.0	931.9	819.7	794.3
147.5°	1698.6	1674.3	1596.9	1451.7	1312.4	1144.1	1010.0	901.7	876.6
150°	1702.8	1677.4	1609.3	1472.8	1344.6	1183.4	1057.8	954.7	930.6
152.5°	1699.7	1680.4	1618.7	1490.6	1371.6	1221.6	1101.4	1005.6	983.5
155°	1701.5	1683.7	1626.2	1514.7	1405.6	1274.9	1166.8	1081.9	1059.1
157.5°	1693.7	1682.0	1631.4	1533.2	1437.0	1322.5	1226.7	1155.3	1132.3
160°	1693.7	1675.9	1631.4	1543.8	1458.8	1353.5	1264.1	1200.1	1181.1
162.5°	1682.3	1666.5	1630.4	1551.4	1479.6	1382.4	1299.4	1239.7	1225.7
165°	1661.3	1648.6	1624.9	1561.4	1505.5	1421.8	1349.8	1296.4	1287.5
167.5°	1644.9	1627.4	1614.5	1561.0	1523.2	1450.1	1392.3	1348.1	1343.0
170°	1626.2	1614.8	1604.2	1558.1	1531.5	1470.6	1422.5	1378.2	1373.1
172.5°	1602.3	1596.0	1590.7	1556.2	1536.7	1487.9	1448.4	1408.2	1399.1
175°	1565.2	1570.3	1569.1	1552.0	1541.9	1510.1	1486.0	1457.2	1445.8
177.5°	1542.4	1540.3	1545.5	1542.4	1541.3	1522.0	1515.4	1495.8	1501.9
180°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9

(END OF REPORT)