

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: P522482

Luminaire Tested: **SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522482
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

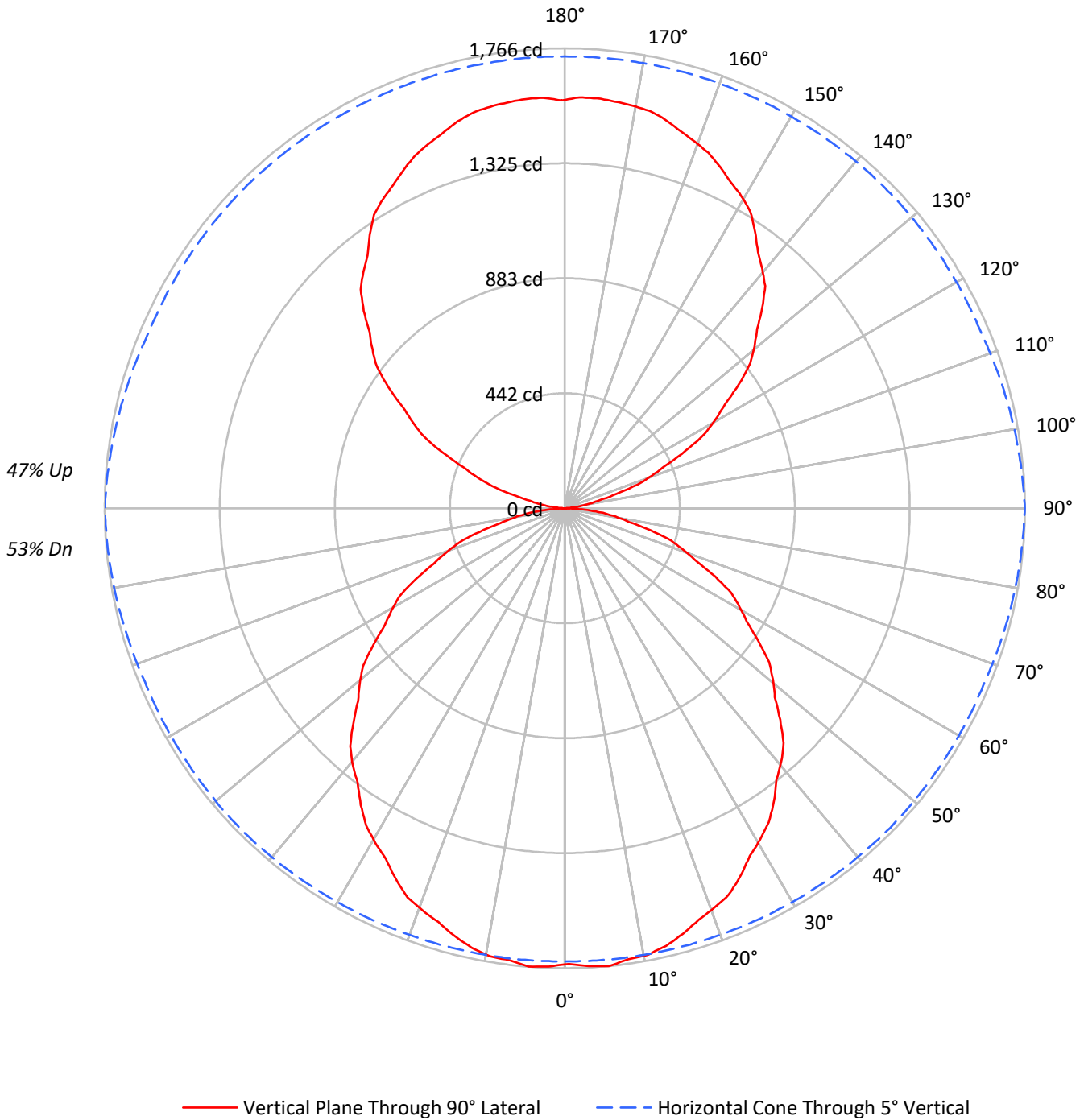
Lumens per Lamp: N/A
Luminaire Lumens: 9253.2 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 94.7
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: P522482
CATALOG NUMBER: SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P522482

CATALOG NUMBER: SQW-F-100U-125D-92765-1D-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	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°	28255	28255	28255
5°	28201	28622	28120
10°	28248	28593	27888
15°	28216	28349	27898
20°	27938	28144	27302
25°	27506	27880	26936
30°	27332	27537	26586
35°	26905	27260	25939
40°	26536	26978	25630
45°	26008	26464	24980
50°	25420	25998	24465
55°	24771	25363	23589
60°	23993	24897	22830
65°	22923	24260	21509
70°	21668	22943	20205
75°	19838	21210	18216
80°	17108	18410	15435
85°	12227	14264	10745



TEST NUMBER: P522482

CATALOG NUMBER: SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.6	1.8
10°-20°	473.0	5.1
20°-30°	711.7	7.7
30°-40°	850.1	9.2
40°-50°	873.5	9.4
50°-60°	785.2	8.5
60°-70°	596.9	6.5
70°-80°	340.1	3.7
80°-90°	88.5	1.0
90°-100°	41.1	0.4
100°-110°	178.2	1.9
110°-120°	508.1	5.5
120°-130°	772.6	8.3
130°-140°	835.7	9.0
140°-150°	798.5	8.6
150°-160°	656.7	7.1
160°-170°	429.1	4.6
170°-180°	148.4	1.6
0°-30°	1350.3	14.6
0°-40°	2200.4	23.8
0°-60°	3859.1	41.7
0°-90°	4884.7	52.8
90°-120°	727.5	7.9
90°-150°	3134.2	33.9
90°-180°	4368.0	47.2
0°-180°	9253.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1750	1750	1750	1750	1750	
5°	1740	1751	1766	1739	1735	166
15°	1688	1682	1696	1677	1669	475
25°	1544	1570	1565	1545	1512	714
35°	1365	1385	1383	1352	1316	853
45°	1139	1152	1159	1122	1094	876
55°	880	898	901	861	838	785
65°	600	614	635	593	563	593
75°	318	329	340	312	292	336
85°	66	79	77	69	58	81
90°	0	0	0	0	0	2
95°	7	9	28	66	62	8
105°	41	105	206	141	152	48
115°	375	997	514	244	276	516
125°	1494	1314	823	404	347	1313
135°	1653	1496	1082	671	532	1274
145°	1722	1612	1289	954	813	1079
155°	1742	1665	1439	1195	1084	805
165°	1701	1664	1542	1382	1318	483
175°	1603	1607	1579	1522	1480	155
180°	1566	1566	1566	1566	1566	



TEST NUMBER: P522482

CATALOG NUMBER: SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0
2.5°	1747.6	1746.0	1753.2	1745.5	1760.4	1752.6	1747.6	1750.4	1734.8
5°	1740.0	1743.9	1751.0	1744.5	1766.0	1734.7	1739.0	1736.0	1735.0
7.5°	1734.2	1737.3	1735.4	1731.4	1748.8	1728.9	1727.0	1720.6	1718.6
10°	1723.0	1726.9	1721.0	1723.5	1744.0	1714.7	1715.0	1699.0	1701.0
12.5°	1702.2	1710.8	1709.0	1700.4	1724.8	1700.2	1705.4	1694.1	1689.8
15°	1688.0	1679.2	1682.0	1684.3	1696.0	1668.6	1677.0	1663.1	1669.0
17.5°	1658.0	1652.5	1654.4	1648.5	1662.0	1633.8	1638.4	1627.3	1623.4
20°	1626.0	1626.0	1628.0	1625.3	1638.0	1610.6	1612.0	1592.9	1589.0
22.5°	1602.0	1598.1	1608.8	1600.5	1611.6	1585.0	1584.8	1561.2	1569.8
25°	1544.0	1548.9	1570.0	1551.3	1565.0	1531.8	1545.0	1518.8	1512.0
27.5°	1499.6	1501.2	1512.8	1502.6	1512.2	1486.6	1498.4	1465.4	1455.6
30°	1466.0	1462.1	1484.0	1468.2	1477.0	1458.4	1460.0	1424.0	1426.0
32.5°	1419.6	1420.4	1444.8	1433.7	1437.8	1413.0	1417.6	1391.8	1381.2
35°	1365.0	1365.0	1385.0	1373.2	1383.0	1352.7	1352.0	1324.8	1316.0
37.5°	1301.4	1295.1	1319.4	1313.2	1320.8	1292.6	1282.8	1257.1	1252.0
40°	1259.0	1255.1	1273.0	1269.2	1280.0	1252.6	1238.0	1214.0	1216.0
42.5°	1204.6	1208.5	1223.4	1225.1	1231.2	1201.5	1192.4	1165.2	1167.2
45°	1139.0	1137.0	1152.0	1151.2	1159.0	1133.6	1122.0	1090.1	1094.0
47.5°	1057.6	1060.3	1076.4	1074.6	1085.4	1062.7	1044.2	1022.9	1018.0
50°	1012.0	1014.0	1026.0	1028.2	1035.0	1011.5	997.0	975.0	974.0
52.5°	956.8	954.8	972.4	976.9	982.2	965.0	946.6	921.3	918.0
55°	880.0	881.0	898.0	904.9	901.0	889.3	861.0	836.0	838.0
57.5°	795.8	803.0	811.0	823.0	823.8	804.8	786.4	762.1	758.2
60°	743.0	744.0	759.0	771.0	771.0	750.5	728.0	707.0	707.0
62.5°	683.0	687.9	700.6	711.9	717.4	700.8	672.8	651.0	649.4
65°	600.0	601.0	614.0	629.1	635.0	612.5	593.0	567.9	563.0
67.5°	514.2	518.3	528.8	540.8	547.6	523.4	502.8	483.2	484.8
70°	459.0	460.0	468.0	483.1	486.0	466.4	446.0	428.0	428.0
72.5°	399.0	405.5	412.0	425.4	427.6	410.4	394.0	376.7	372.8
75°	318.0	322.9	329.0	337.1	340.0	325.3	312.0	296.9	292.0
77.5°	237.6	242.3	252.6	253.8	253.2	243.0	232.6	221.3	216.4
80°	184.0	187.9	199.0	200.9	198.0	190.2	179.0	170.9	166.0
82.5°	133.6	140.6	148.6	150.5	146.8	142.9	133.4	123.7	119.6
85°	66.0	69.9	79.0	82.9	77.0	75.0	69.0	60.9	58.0
87.5°	12.8	15.9	24.0	29.4	22.4	26.3	20.0	14.4	12.8
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	4.3	6.4	23.0	25.5	22.3	22.3
95°	6.6	6.6	9.3	29.2	27.9	47.4	66.5	62.5	62.5
97.5°	13.6	14.9	21.3	86.4	65.1	63.3	89.8	100.0	101.8
100°	19.9	21.2	31.9	141.2	97.0	82.7	98.3	117.0	120.9
102.5°	27.4	29.7	51.0	222.1	136.4	97.1	112.2	128.8	133.7
105°	41.2	45.1	105.0	372.3	206.0	126.7	140.9	147.6	151.5
107.5°	61.1	77.0	282.8	523.2	292.4	167.4	182.3	181.4	184.7
110°	82.4	114.9	489.1	605.7	356.2	198.9	199.4	209.9	206.0

TEST NUMBER: P522482

CATALOG NUMBER: SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	136.6	228.4	729.4	685.1	420.0	236.7	215.3	238.7	240.0
115°	374.8	643.8	996.8	796.3	514.3	303.8	244.5	267.3	276.4
117.5°	929.2	1120.0	1133.6	895.1	608.4	378.7	278.0	288.1	300.1
120°	1259.9	1298.9	1197.4	955.7	671.1	432.0	305.7	302.0	315.0
122.5°	1389.6	1375.6	1249.5	1012.2	732.8	488.5	339.7	318.9	327.7
125°	1493.8	1457.4	1314.4	1090.3	822.7	573.2	404.0	346.9	346.9
127.5°	1556.0	1513.6	1373.9	1159.7	903.7	658.6	481.4	392.3	380.1
130°	1592.1	1546.7	1410.1	1207.7	956.9	713.9	535.6	431.5	412.0
132.5°	1619.8	1578.5	1444.1	1245.2	1009.0	768.1	589.8	480.1	448.1
135°	1653.3	1618.2	1496.5	1302.7	1081.8	849.2	671.1	564.1	531.6
137.5°	1674.8	1647.5	1543.5	1350.0	1149.3	929.7	753.3	645.8	616.4
140°	1686.5	1664.4	1566.9	1377.9	1190.8	981.6	810.7	701.1	673.8
142.5°	1698.2	1680.3	1583.9	1409.0	1231.2	1033.4	867.0	757.4	728.0
145°	1722.4	1701.6	1612.1	1446.4	1289.1	1105.9	954.2	839.3	813.3
147.5°	1739.4	1714.4	1635.2	1486.6	1343.9	1171.6	1034.2	923.3	897.6
150°	1743.7	1717.7	1648.0	1508.1	1376.8	1211.8	1083.1	977.6	952.9
152.5°	1740.5	1720.7	1657.5	1526.4	1404.5	1250.9	1127.8	1029.7	1007.1
155°	1742.3	1724.1	1665.2	1551.1	1439.3	1305.5	1194.8	1107.9	1084.5
157.5°	1734.3	1722.4	1670.6	1570.0	1471.5	1354.3	1256.2	1183.1	1159.4
160°	1734.3	1716.2	1670.6	1580.9	1493.8	1385.9	1294.4	1228.9	1209.4
162.5°	1722.7	1706.5	1669.5	1588.6	1515.1	1415.5	1330.6	1269.4	1255.1
165°	1701.1	1688.1	1663.9	1598.8	1541.6	1455.9	1382.2	1327.5	1318.4
167.5°	1684.4	1666.4	1653.3	1598.4	1559.7	1484.9	1425.8	1380.5	1375.3
170°	1665.2	1653.5	1642.6	1595.5	1568.2	1505.8	1456.6	1411.3	1406.1
172.5°	1640.8	1634.3	1628.8	1593.6	1573.5	1523.6	1483.2	1442.0	1432.7
175°	1602.8	1608.0	1606.8	1589.3	1578.9	1546.4	1521.7	1492.2	1480.5
177.5°	1579.4	1577.3	1582.6	1579.4	1578.3	1558.6	1551.7	1531.7	1537.9
180°	1565.6	1565.6	1565.6	1565.6	1565.6	1565.6	1565.6	1565.6	1565.6

(END OF REPORT)