

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: P522480

Luminaire Tested: **SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522480
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

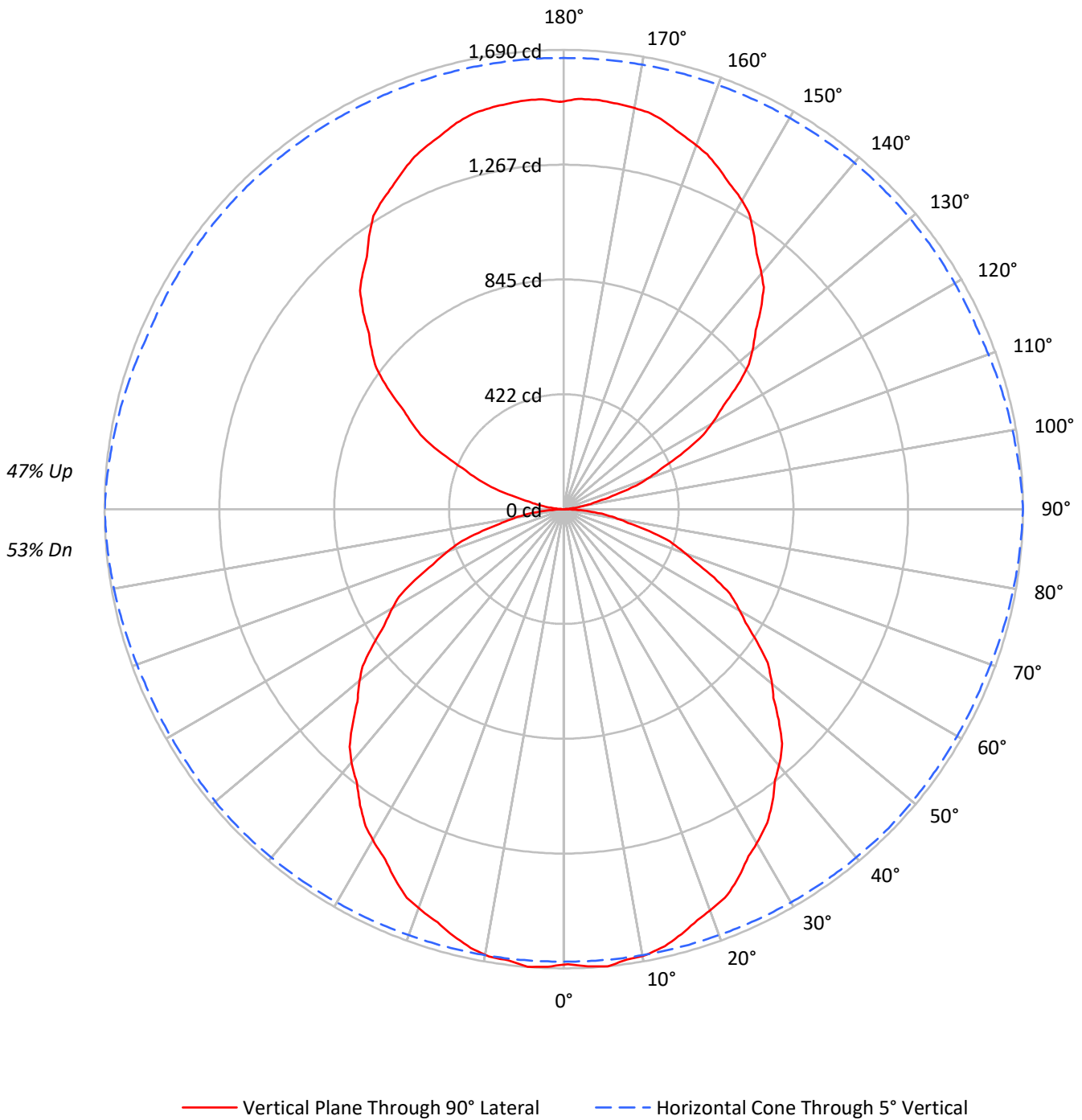
Lumens per Lamp: N/A
Luminaire Lumens: 8852.9 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 94.4
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	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°	27033	27033	27033
5°	26981	27384	26903
10°	27027	27355	26681
15°	26995	27122	26691
20°	26730	26926	26122
25°	26316	26674	25771
30°	26150	26345	25435
35°	25740	26081	24817
40°	25387	25811	24521
45°	24882	25320	23900
50°	24320	24872	23408
55°	23699	24265	22567
60°	22956	23818	21842
65°	21929	23209	20577
70°	20729	21951	19331
75°	18977	20293	17430
80°	16365	17610	14765
85°	11689	13653	10282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	1.8
10°-20°	452.5	5.1
20°-30°	680.9	7.7
30°-40°	813.3	9.2
40°-50°	835.7	9.4
50°-60°	751.3	8.5
60°-70°	571.1	6.5
70°-80°	325.4	3.7
80°-90°	84.7	1.0
90°-100°	39.4	0.4
100°-110°	170.5	1.9
110°-120°	486.2	5.5
120°-130°	739.2	8.3
130°-140°	799.5	9.0
140°-150°	763.9	8.6
150°-160°	628.3	7.1
160°-170°	410.5	4.6
170°-180°	142.0	1.6
0°-30°	1291.9	14.6
0°-40°	2105.2	23.8
0°-60°	3692.2	41.7
0°-90°	4673.4	52.8
90°-120°	696.0	7.9
90°-150°	2998.7	33.9
90°-180°	4180.0	47.2
0°-180°	8852.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1674	1674	1674	1674	1674	
5°	1665	1675	1690	1664	1660	158
15°	1615	1609	1623	1604	1597	455
25°	1477	1502	1497	1478	1447	683
35°	1306	1325	1323	1294	1259	816
45°	1090	1102	1109	1074	1047	838
55°	842	859	862	824	802	751
65°	574	587	608	567	539	568
75°	304	315	325	298	279	322
85°	63	76	74	66	56	77
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3
2.5°	1672.0	1670.5	1677.4	1670.0	1684.2	1676.8	1672.0	1674.7	1659.7
5°	1664.7	1668.5	1675.2	1669.0	1689.6	1659.7	1663.8	1660.9	1659.9
7.5°	1659.2	1662.2	1660.3	1656.5	1673.1	1654.1	1652.3	1646.1	1644.2
10°	1648.5	1652.2	1646.5	1648.9	1668.5	1640.5	1640.8	1625.5	1627.4
12.5°	1628.6	1636.8	1635.1	1626.8	1650.2	1626.6	1631.6	1620.8	1616.7
15°	1615.0	1606.6	1609.2	1611.4	1622.6	1596.4	1604.4	1591.2	1596.8
17.5°	1586.3	1581.0	1582.8	1577.2	1590.1	1563.2	1567.5	1556.9	1553.2
20°	1555.7	1555.7	1557.6	1555.0	1567.1	1540.9	1542.3	1524.0	1520.3
22.5°	1532.7	1529.0	1539.2	1531.2	1541.9	1516.4	1516.2	1493.7	1501.9
25°	1477.2	1481.9	1502.1	1484.2	1497.3	1465.5	1478.2	1453.1	1446.6
27.5°	1434.7	1436.2	1447.4	1437.6	1446.8	1422.3	1433.6	1402.0	1392.6
30°	1402.6	1398.8	1419.8	1404.7	1413.1	1395.3	1396.8	1362.4	1364.3
32.5°	1358.2	1358.9	1382.3	1371.7	1375.6	1351.8	1356.3	1331.5	1321.4
35°	1305.9	1305.9	1325.1	1313.8	1323.2	1294.2	1293.5	1267.5	1259.1
37.5°	1245.1	1239.1	1262.3	1256.4	1263.7	1236.7	1227.3	1202.7	1197.8
40°	1204.5	1200.8	1217.9	1214.3	1224.6	1198.4	1184.4	1161.5	1163.4
42.5°	1152.5	1156.2	1170.5	1172.1	1177.9	1149.5	1140.8	1114.8	1116.7
45°	1089.7	1087.9	1102.2	1101.4	1108.9	1084.5	1073.5	1042.9	1046.7
47.5°	1011.8	1014.5	1029.8	1028.2	1038.4	1016.7	999.0	978.6	974.0
50°	968.2	970.1	981.6	983.7	990.2	967.8	953.9	932.8	931.9
52.5°	915.4	913.5	930.3	934.7	939.7	923.2	905.6	881.5	878.3
55°	841.9	842.9	859.2	865.8	862.0	850.8	823.8	799.9	801.7
57.5°	761.4	768.3	775.9	787.4	788.2	770.0	752.4	729.1	725.4
60°	710.9	711.8	726.2	737.6	737.6	718.0	696.5	676.4	676.4
62.5°	653.5	658.1	670.3	681.1	686.4	670.5	643.7	622.8	621.3
65°	574.0	575.0	587.4	601.9	607.5	586.0	567.3	543.3	538.6
67.5°	492.0	495.9	505.9	517.4	523.9	500.7	481.0	462.3	463.8
70°	439.1	440.1	447.8	462.2	465.0	446.3	426.7	409.5	409.5
72.5°	381.7	387.9	394.2	407.0	409.1	392.6	377.0	360.4	356.7
75°	304.2	308.9	314.8	322.5	325.3	311.3	298.5	284.0	279.4
77.5°	227.3	231.8	241.7	242.8	242.2	232.5	222.5	211.7	207.0
80°	176.0	179.8	190.4	192.2	189.4	182.0	171.3	163.5	158.8
82.5°	127.8	134.6	142.2	144.0	140.4	136.7	127.6	118.4	114.4
85°	63.1	66.9	75.6	79.3	73.7	71.8	66.0	58.3	55.5
87.5°	12.2	15.2	23.0	28.2	21.4	25.2	19.1	13.7	12.2
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



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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)