

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: P522483

Luminaire Tested: **SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522483
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

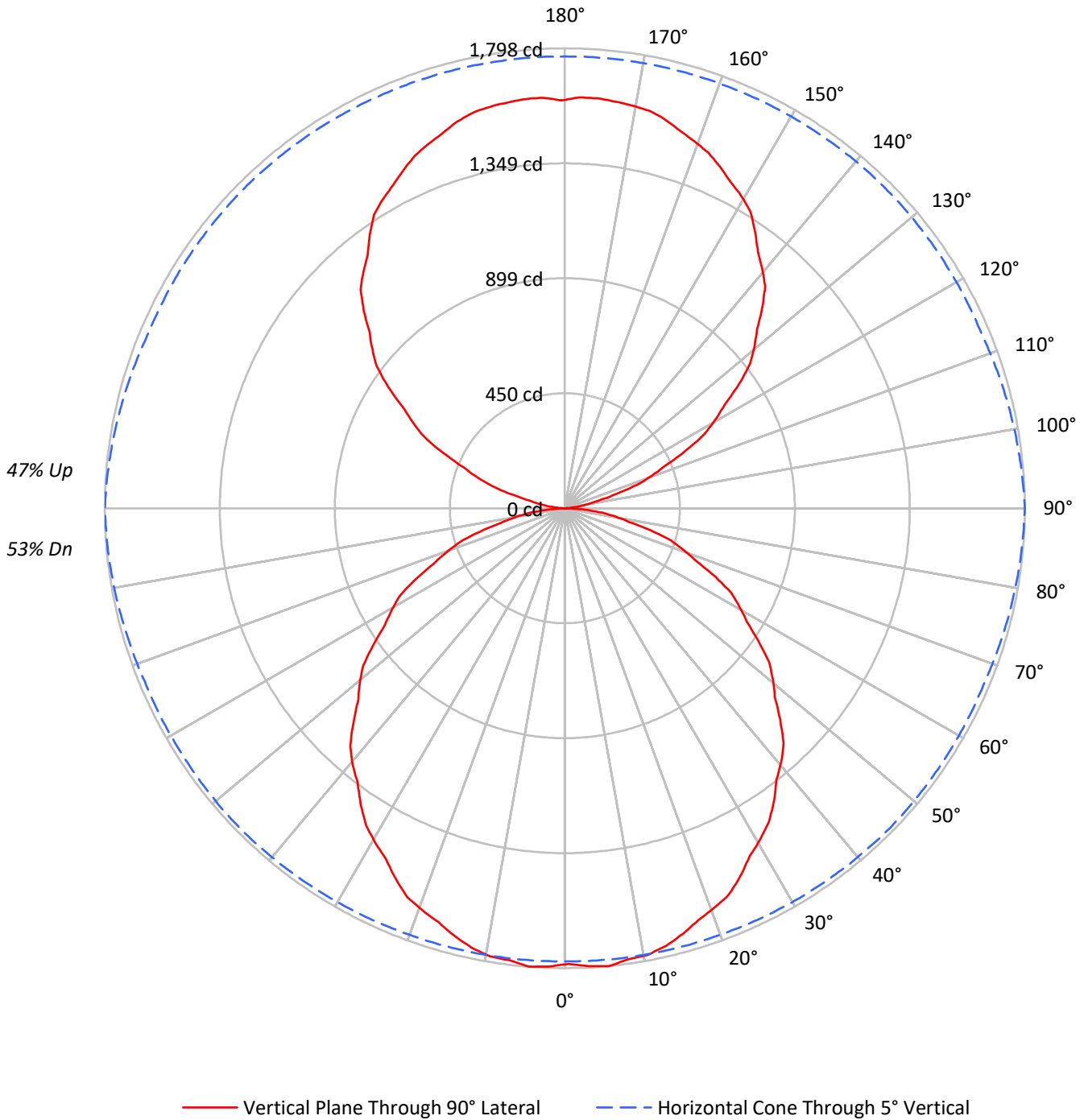
Lumens per Lamp: N/A
Luminaire Lumens: 9422.4 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 94.7
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	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°	28772	28772	28772
5°	28716	29146	28634
10°	28765	29116	28398
15°	28732	28868	28408
20°	28448	28660	27802
25°	28009	28390	27430
30°	27831	28040	27072
35°	27397	27758	26414
40°	27021	27472	26097
45°	26482	26948	25437
50°	25885	26472	24912
55°	25225	25827	24020
60°	24432	25352	23247
65°	23343	24703	21903
70°	22065	23363	20573
75°	20200	21597	18546
80°	17424	18745	15714
85°	12449	14524	10948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	1.8
10°-20°	481.7	5.1
20°-30°	724.7	7.7
30°-40°	865.6	9.2
40°-50°	889.5	9.4
50°-60°	799.6	8.5
60°-70°	607.8	6.5
70°-80°	346.3	3.7
80°-90°	90.1	1.0
90°-100°	41.9	0.4
100°-110°	181.5	1.9
110°-120°	517.4	5.5
120°-130°	786.8	8.3
130°-140°	850.9	9.0
140°-150°	813.1	8.6
150°-160°	668.7	7.1
160°-170°	437.0	4.6
170°-180°	151.1	1.6
0°-30°	1375.0	14.6
0°-40°	2240.6	23.8
0°-60°	3929.7	41.7
0°-90°	4974.0	52.8
90°-120°	740.8	7.9
90°-150°	3191.6	33.9
90°-180°	4448.0	47.2
0°-180°	9422.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1782	1782	1782	1782	1782	
5°	1772	1783	1798	1771	1767	169
15°	1719	1713	1727	1708	1700	484
25°	1572	1599	1594	1573	1540	727
35°	1390	1410	1408	1377	1340	869
45°	1160	1173	1180	1142	1114	892
55°	896	914	918	877	853	799
65°	611	625	647	604	573	604
75°	324	335	346	318	297	343
85°	67	80	78	70	59	82
90°	0	0	0	0	0	2
95°	7	10	28	68	64	9
105°	42	107	210	144	154	48
115°	382	1015	524	249	282	525
125°	1521	1338	838	411	353	1337
135°	1684	1524	1102	683	541	1298
145°	1754	1642	1313	972	828	1099
155°	1774	1696	1466	1217	1104	820
165°	1732	1694	1570	1407	1342	492
175°	1632	1636	1608	1550	1508	158
180°	1594	1594	1594	1594	1594	



TEST NUMBER: P522483

CATALOG NUMBER: SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0
2.5°	1779.6	1778.0	1785.3	1777.5	1792.6	1784.6	1779.6	1782.5	1766.5
5°	1771.8	1775.8	1783.0	1776.4	1798.3	1766.4	1770.8	1767.7	1766.7
7.5°	1765.9	1769.1	1767.1	1763.1	1780.8	1760.5	1758.6	1752.0	1750.0
10°	1754.5	1758.5	1752.5	1755.0	1775.9	1746.0	1746.4	1730.1	1732.1
12.5°	1733.3	1742.1	1740.3	1731.5	1756.4	1731.3	1736.6	1725.1	1720.7
15°	1718.9	1709.9	1712.8	1715.1	1727.0	1699.1	1707.7	1693.6	1699.5
17.5°	1688.3	1682.8	1684.7	1678.7	1692.4	1663.7	1668.4	1657.1	1653.1
20°	1655.7	1655.7	1657.8	1655.0	1668.0	1640.1	1641.5	1622.1	1618.1
22.5°	1631.3	1627.3	1638.2	1629.7	1641.1	1614.0	1613.8	1589.8	1598.5
25°	1572.2	1577.2	1598.7	1579.7	1593.6	1559.8	1573.3	1546.6	1539.7
27.5°	1527.0	1528.6	1540.5	1530.1	1539.9	1513.8	1525.8	1492.2	1482.2
30°	1492.8	1488.8	1511.1	1495.1	1504.0	1485.1	1486.7	1450.1	1452.1
32.5°	1445.6	1446.4	1471.2	1459.9	1464.1	1438.8	1443.5	1417.2	1406.5
35°	1390.0	1390.0	1410.3	1398.3	1408.3	1377.4	1376.7	1349.0	1340.1
37.5°	1325.2	1318.8	1343.5	1337.2	1345.0	1316.3	1306.3	1280.1	1274.9
40°	1282.0	1278.0	1296.3	1292.5	1303.4	1275.5	1260.6	1236.3	1238.2
42.5°	1226.6	1230.6	1245.8	1247.6	1253.7	1223.5	1214.2	1186.6	1188.6
45°	1159.8	1157.8	1173.1	1172.2	1180.2	1154.3	1142.5	1110.0	1114.0
47.5°	1076.9	1079.7	1096.1	1094.3	1105.3	1082.2	1063.3	1041.6	1036.6
50°	1030.5	1032.5	1044.8	1047.0	1053.9	1030.0	1015.2	992.8	991.8
52.5°	974.3	972.3	990.2	994.8	1000.2	982.6	963.9	938.2	934.8
55°	896.1	897.1	914.4	921.5	917.5	905.5	876.8	851.3	853.3
57.5°	810.4	817.7	825.8	838.1	838.9	819.6	800.8	776.1	772.1
60°	756.6	757.6	772.9	785.1	785.1	764.2	741.3	719.9	719.9
62.5°	695.5	700.5	713.4	724.9	730.5	713.6	685.1	662.9	661.3
65°	611.0	612.0	625.2	640.6	646.6	623.7	603.8	578.3	573.3
67.5°	523.6	527.8	538.5	550.6	557.6	532.9	512.0	492.1	493.7
70°	467.4	468.4	476.6	491.9	494.9	475.0	454.2	435.8	435.8
72.5°	406.3	412.9	419.5	433.2	435.4	417.9	401.2	383.6	379.6
75°	323.8	328.8	335.0	343.2	346.2	331.3	317.7	302.3	297.3
77.5°	241.9	246.7	257.2	258.4	257.8	247.5	236.9	225.3	220.4
80°	187.4	191.3	202.6	204.6	201.6	193.7	182.3	174.0	169.0
82.5°	136.0	143.2	151.3	153.3	149.5	145.5	135.8	126.0	121.8
85°	67.2	71.2	80.4	84.4	78.4	76.4	70.3	62.0	59.1
87.5°	13.0	16.2	24.4	30.0	22.8	26.8	20.4	14.6	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.2	2.2	2.2	4.4	6.5	23.4	26.0	22.7	22.7
95°	6.8	6.8	9.5	29.7	28.4	48.3	67.7	63.6	63.6
97.5°	13.8	15.1	21.7	88.0	66.3	64.5	91.5	101.8	103.7
100°	20.3	21.6	32.5	143.8	98.8	84.2	100.1	119.2	123.2
102.5°	27.9	30.3	52.0	226.2	138.9	98.9	114.2	131.1	136.1
105°	42.0	45.9	106.9	379.1	209.8	129.0	143.5	150.3	154.3
107.5°	62.3	78.4	288.0	532.7	297.7	170.4	185.7	184.7	188.1
110°	83.9	117.0	498.0	616.8	362.7	202.6	203.0	213.7	209.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	139.1	232.5	742.7	697.6	427.6	241.1	219.2	243.1	244.4
115°	381.6	655.5	1015.0	810.9	523.7	309.4	249.0	272.2	281.5
117.5°	946.2	1140.5	1154.4	911.5	619.5	385.6	283.1	293.4	305.6
120°	1282.9	1322.6	1219.3	973.2	683.4	439.9	311.3	307.5	320.7
122.5°	1415.0	1400.7	1272.4	1030.7	746.2	497.4	345.9	324.7	333.7
125°	1521.1	1484.1	1338.4	1110.3	837.7	583.6	411.4	353.2	353.2
127.5°	1584.5	1541.3	1399.1	1180.9	920.3	670.7	490.2	399.5	387.0
130°	1621.3	1575.0	1435.9	1229.8	974.4	726.9	545.4	439.4	419.5
132.5°	1649.4	1607.3	1470.5	1268.0	1027.4	782.1	600.6	488.9	456.3
135°	1683.5	1647.8	1523.8	1326.6	1101.6	864.7	683.4	574.4	541.3
137.5°	1705.4	1677.7	1571.7	1374.7	1170.3	946.7	767.1	657.6	627.7
140°	1717.4	1694.9	1595.6	1403.1	1212.6	999.5	825.5	713.9	686.1
142.5°	1729.3	1711.0	1612.9	1434.7	1253.7	1052.3	882.9	771.3	741.3
145°	1753.9	1732.7	1641.6	1472.8	1312.7	1126.1	971.7	854.7	828.2
147.5°	1771.2	1745.8	1665.1	1513.8	1368.5	1193.0	1053.2	940.2	914.0
150°	1775.6	1749.1	1678.1	1535.7	1402.0	1234.0	1103.0	995.5	970.3
152.5°	1772.3	1752.2	1687.9	1554.3	1430.2	1273.8	1148.4	1048.6	1025.5
155°	1774.2	1755.7	1695.7	1579.4	1465.6	1329.3	1216.6	1128.1	1104.3
157.5°	1766.1	1753.9	1701.1	1598.7	1498.4	1379.0	1279.2	1204.7	1180.6
160°	1766.1	1747.6	1701.1	1609.8	1521.1	1411.3	1318.1	1251.4	1231.5
162.5°	1754.2	1737.8	1700.0	1617.7	1542.8	1441.4	1354.9	1292.6	1278.1
165°	1732.2	1719.0	1694.4	1628.1	1569.8	1482.5	1407.4	1351.8	1342.5
167.5°	1715.2	1696.9	1683.5	1627.7	1588.3	1512.0	1451.8	1405.7	1400.4
170°	1695.7	1683.8	1672.7	1624.7	1596.9	1533.4	1483.2	1437.1	1431.8
172.5°	1670.8	1664.2	1658.6	1622.7	1602.3	1551.5	1510.3	1468.4	1458.9
175°	1632.1	1637.4	1636.2	1618.3	1607.7	1574.7	1549.5	1519.5	1507.6
177.5°	1608.3	1606.2	1611.5	1608.3	1607.2	1587.1	1580.1	1559.7	1566.1
180°	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2

(END OF REPORT)