

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: P522487

Luminaire Tested: **SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522487
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

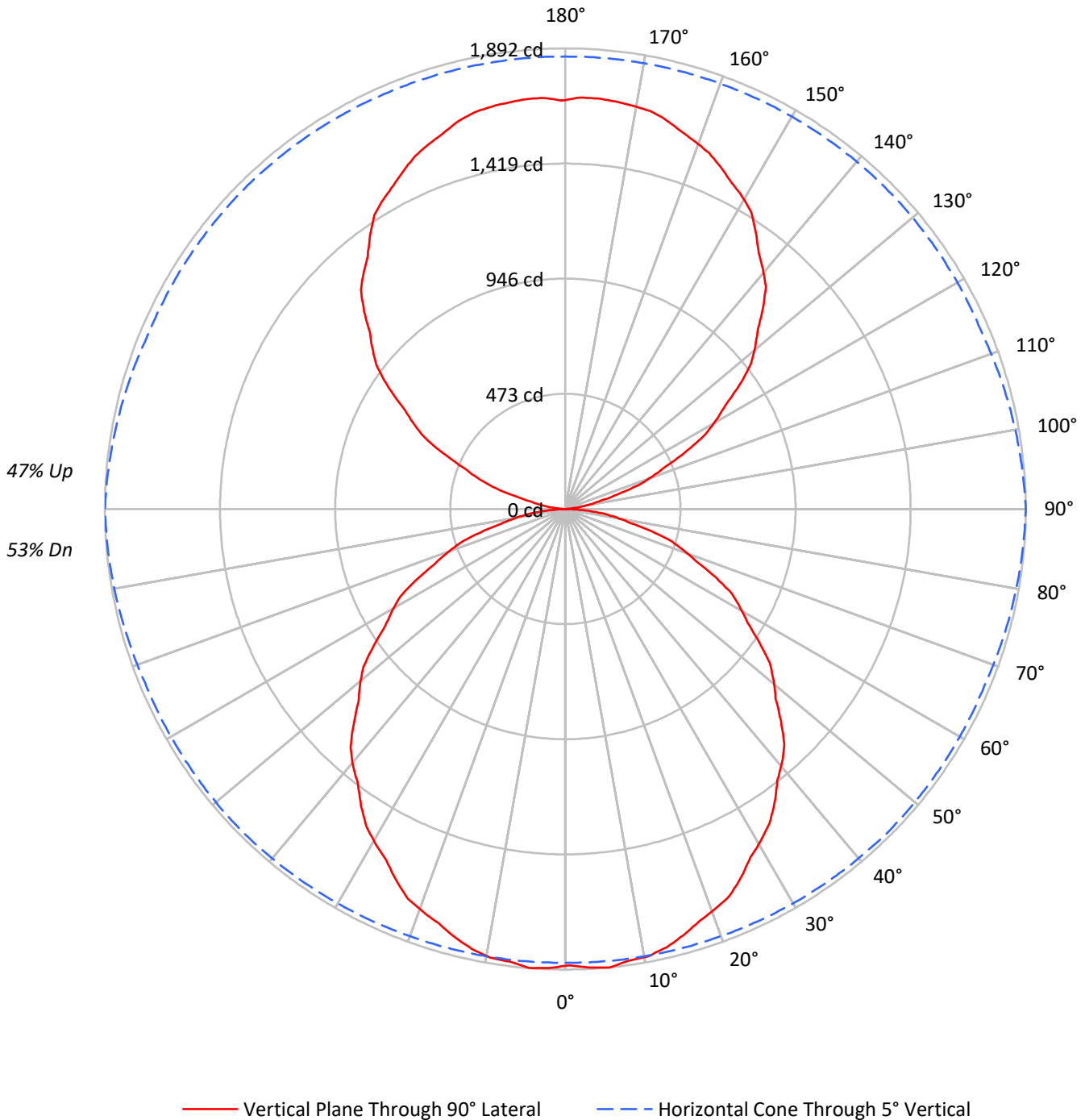
Lumens per Lamp: N/A
Luminaire Lumens: 9911.4 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 94
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									
RC	80					70					50					30					10				
RW	70	50	30	10	70	50	30	10	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°	30265	30265	30265
5°	30208	30658	30120
10°	30258	30627	29872
15°	30223	30365	29882
20°	29926	30146	29244
25°	29462	29863	28853
30°	29276	29496	28476
35°	28819	29199	27784
40°	28424	28896	27453
45°	27857	28346	26756
50°	27228	27846	26206
55°	26534	27167	25267
60°	25701	26666	24454
65°	24554	25987	23037
70°	23207	24576	21640
75°	21248	22720	19513
80°	18326	19721	16532
85°	13097	15283	11504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	1.8
10°-20°	506.7	5.1
20°-30°	762.3	7.7
30°-40°	910.6	9.2
40°-50°	935.7	9.4
50°-60°	841.1	8.5
60°-70°	639.4	6.5
70°-80°	364.3	3.7
80°-90°	94.8	1.0
90°-100°	44.1	0.4
100°-110°	190.9	1.9
110°-120°	544.3	5.5
120°-130°	827.6	8.3
130°-140°	895.1	9.0
140°-150°	855.3	8.6
150°-160°	703.4	7.1
160°-170°	459.6	4.6
170°-180°	159.0	1.6
0°-30°	1446.3	14.6
0°-40°	2356.9	23.8
0°-60°	4133.7	41.7
0°-90°	5232.1	52.8
90°-120°	779.2	7.9
90°-150°	3357.2	33.9
90°-180°	4679.0	47.2
0°-180°	9911.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1874	1874	1874	1874	1874	
5°	1864	1876	1892	1863	1858	177
15°	1808	1802	1817	1796	1788	509
25°	1654	1682	1676	1655	1620	765
35°	1462	1484	1481	1448	1410	914
45°	1220	1234	1241	1202	1172	938
55°	943	962	965	922	898	841
65°	643	658	680	635	603	635
75°	341	352	364	334	313	360
85°	71	85	82	74	62	87
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: P522487

CATALOG NUMBER: SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5
2.5°	1871.9	1870.2	1877.9	1869.7	1885.6	1877.2	1871.9	1875.0	1858.2
5°	1863.8	1868.0	1875.6	1868.6	1891.6	1858.1	1862.7	1859.5	1858.4
7.5°	1857.6	1860.9	1858.8	1854.6	1873.2	1851.8	1849.8	1842.9	1840.8
10°	1845.6	1849.7	1843.4	1846.1	1868.1	1836.6	1837.0	1819.9	1822.0
12.5°	1823.3	1832.5	1830.6	1821.3	1847.5	1821.1	1826.7	1814.6	1810.0
15°	1808.1	1798.6	1801.6	1804.1	1816.6	1787.3	1796.3	1781.4	1787.7
17.5°	1775.9	1770.1	1772.1	1765.8	1780.2	1750.1	1754.9	1743.1	1738.9
20°	1741.7	1741.7	1743.8	1740.9	1754.5	1725.2	1726.7	1706.2	1702.0
22.5°	1716.0	1711.8	1723.2	1714.3	1726.2	1697.7	1697.5	1672.2	1681.5
25°	1653.8	1659.1	1681.7	1661.7	1676.3	1640.7	1654.9	1626.9	1619.6
27.5°	1606.3	1607.9	1620.4	1609.5	1619.8	1592.3	1605.0	1569.6	1559.1
30°	1570.3	1566.1	1589.6	1572.6	1582.1	1562.2	1563.9	1525.3	1527.4
32.5°	1520.6	1521.4	1547.6	1535.7	1540.1	1513.5	1518.4	1490.8	1479.4
35°	1462.1	1462.1	1483.5	1470.9	1481.4	1448.9	1448.2	1419.0	1409.6
37.5°	1394.0	1387.3	1413.3	1406.6	1414.8	1384.6	1374.0	1346.5	1341.1
40°	1348.6	1344.4	1363.6	1359.5	1371.0	1341.7	1326.1	1300.4	1302.5
42.5°	1290.3	1294.5	1310.4	1312.3	1318.8	1286.9	1277.2	1248.1	1250.2
45°	1220.0	1217.9	1233.9	1233.1	1241.4	1214.2	1201.8	1167.6	1171.8
47.5°	1132.8	1135.8	1153.0	1151.1	1162.6	1138.3	1118.5	1095.6	1090.4
50°	1084.0	1086.1	1099.0	1101.3	1108.6	1083.5	1067.9	1044.3	1043.3
52.5°	1024.9	1022.8	1041.6	1046.4	1052.1	1033.6	1013.9	986.9	983.3
55°	942.6	943.6	961.9	969.3	965.1	952.5	922.2	895.5	897.6
57.5°	852.4	860.2	868.7	881.6	882.4	862.1	842.3	816.3	812.1
60°	795.9	796.9	813.0	825.8	825.8	803.8	779.8	757.3	757.3
62.5°	731.6	736.8	750.4	762.6	768.4	750.6	720.7	697.3	695.6
65°	642.7	643.7	657.7	673.9	680.2	656.1	635.2	608.3	603.0
67.5°	550.8	555.2	566.4	579.2	586.6	560.6	538.6	517.6	519.3
70°	491.6	492.7	501.3	517.4	520.6	499.6	477.7	458.4	458.4
72.5°	427.4	434.3	441.3	455.7	458.0	439.6	422.0	403.5	399.3
75°	340.6	345.9	352.4	361.0	364.2	348.5	334.2	318.0	312.8
77.5°	254.5	259.5	270.6	271.8	271.2	260.3	249.1	237.0	231.8
80°	197.1	201.3	213.2	215.2	212.1	203.7	191.7	183.0	177.8
82.5°	143.1	150.6	159.2	161.2	157.2	153.1	142.9	132.5	128.1
85°	70.7	74.9	84.6	88.8	82.5	80.4	73.9	65.3	62.1
87.5°	13.7	17.1	25.7	31.5	24.0	28.2	21.4	15.4	13.7
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



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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)