

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: P522486

Luminaire Tested: **SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522486
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 (5700K)
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

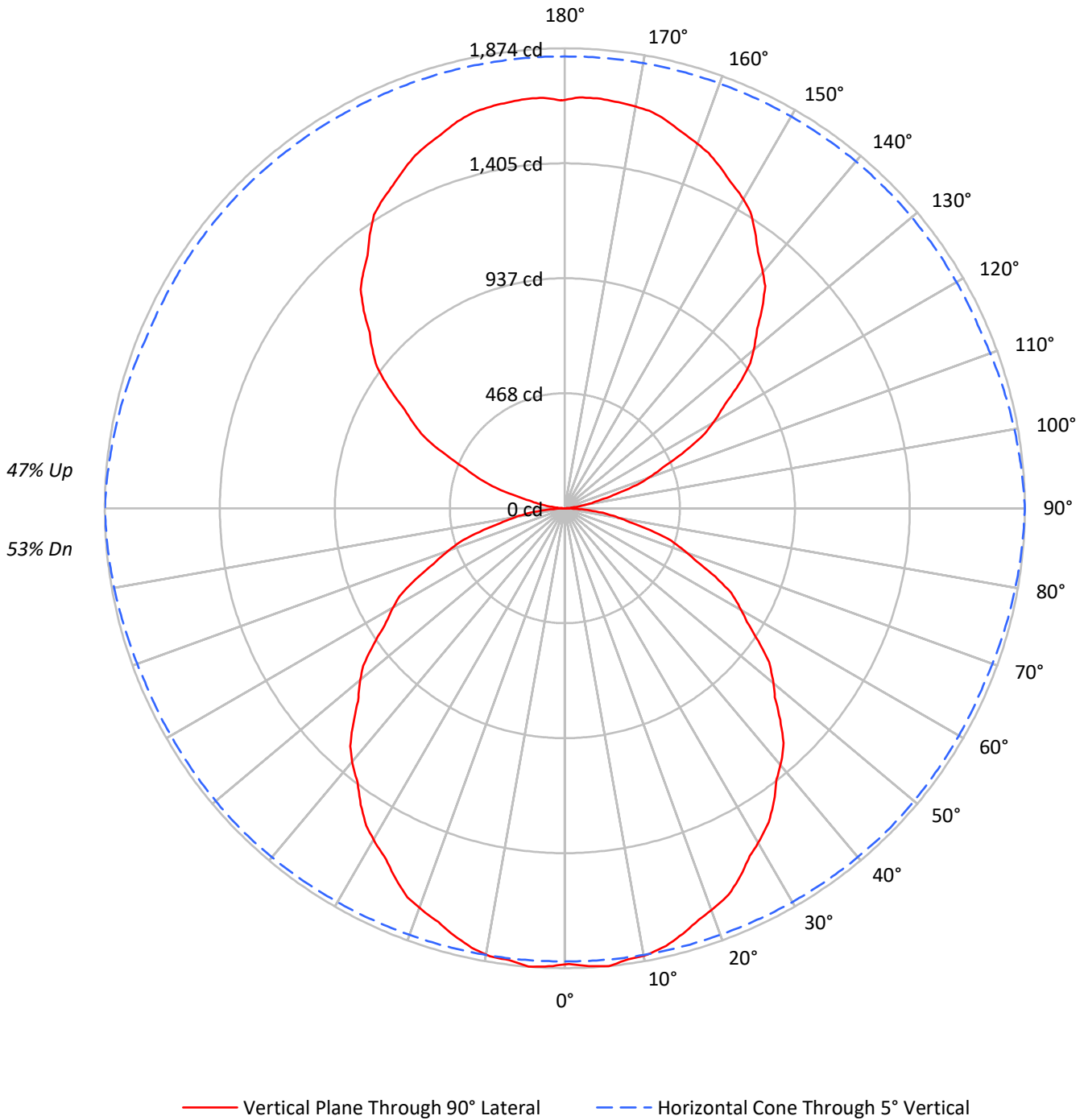
Lumens per Lamp: N/A
Luminaire Lumens: 9818.3 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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									
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°	29981	29981	29981
5°	29924	30371	29838
10°	29973	30339	29591
15°	29939	30081	29601
20°	29644	29862	28969
25°	29186	29584	28581
30°	29000	29218	28210
35°	28549	28925	27524
40°	28157	28627	27196
45°	27597	28081	26505
50°	26972	27585	25960
55°	26283	26911	25030
60°	25459	26418	24225
65°	24321	25742	22823
70°	22990	24345	21437
75°	21048	22508	19326
80°	18150	19535	16374
85°	12968	15135	11393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	1.8
10°-20°	501.9	5.1
20°-30°	755.1	7.7
30°-40°	902.0	9.2
40°-50°	926.9	9.4
50°-60°	833.2	8.5
60°-70°	633.3	6.5
70°-80°	360.9	3.7
80°-90°	93.9	1.0
90°-100°	43.7	0.4
100°-110°	189.1	1.9
110°-120°	539.2	5.5
120°-130°	819.8	8.3
130°-140°	886.7	9.0
140°-150°	847.2	8.6
150°-160°	696.8	7.1
160°-170°	455.3	4.6
170°-180°	157.5	1.6
0°-30°	1432.7	14.6
0°-40°	2334.8	23.8
0°-60°	4094.8	41.7
0°-90°	5183.0	52.8
90°-120°	771.9	7.9
90°-150°	3325.7	33.9
90°-180°	4635.0	47.2
0°-180°	9818.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1857	1857	1857	1857	1857	
5°	1846	1858	1874	1845	1841	176
15°	1791	1785	1800	1779	1771	504
25°	1638	1666	1661	1639	1604	758
35°	1448	1470	1468	1435	1396	905
45°	1209	1222	1230	1190	1161	929
55°	934	953	956	914	889	833
65°	637	652	674	629	597	629
75°	337	349	361	331	310	357
85°	70	84	82	73	62	86
90°	0	0	0	0	0	2
95°	7	10	30	70	66	9
105°	44	111	219	150	161	50
115°	398	1058	546	260	293	547
125°	1585	1395	873	429	368	1393
135°	1754	1588	1148	712	564	1352
145°	1828	1710	1368	1012	863	1145
155°	1849	1767	1527	1268	1151	854
165°	1805	1766	1636	1467	1399	513
175°	1701	1705	1675	1615	1571	165
180°	1661	1661	1661	1661	1661	



TEST NUMBER: P522486

CATALOG NUMBER: SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1856.9	1856.9	1856.9	1856.9	1856.9	1856.9	1856.9	1856.9	1856.9
2.5°	1854.3	1852.7	1860.3	1852.1	1867.9	1859.6	1854.3	1857.3	1840.7
5°	1846.3	1850.4	1857.9	1851.0	1873.9	1840.7	1845.2	1842.0	1841.0
7.5°	1840.1	1843.4	1841.4	1837.1	1855.6	1834.4	1832.5	1825.6	1823.6
10°	1828.2	1832.4	1826.1	1828.7	1850.5	1819.4	1819.7	1802.8	1804.9
12.5°	1806.2	1815.3	1813.4	1804.2	1830.1	1804.0	1809.5	1797.6	1793.0
15°	1791.1	1781.7	1784.7	1787.1	1799.6	1770.5	1779.4	1764.7	1770.9
17.5°	1759.3	1753.4	1755.4	1749.2	1763.5	1733.6	1738.5	1726.7	1722.5
20°	1725.3	1725.3	1727.4	1724.5	1738.0	1709.0	1710.4	1690.2	1686.0
22.5°	1699.8	1695.7	1707.1	1698.2	1710.0	1681.8	1681.6	1656.5	1665.7
25°	1638.3	1643.5	1665.9	1646.1	1660.6	1625.3	1639.4	1611.6	1604.3
27.5°	1591.2	1592.8	1605.2	1594.4	1604.6	1577.4	1589.9	1554.9	1544.5
30°	1555.5	1551.4	1574.6	1557.9	1567.2	1547.5	1549.2	1511.0	1513.1
32.5°	1506.3	1507.1	1533.0	1521.2	1525.6	1499.3	1504.2	1476.8	1465.6
35°	1448.4	1448.4	1469.6	1457.1	1467.5	1435.3	1434.6	1405.7	1396.4
37.5°	1380.9	1374.2	1400.0	1393.4	1401.5	1371.6	1361.1	1333.9	1328.5
40°	1335.9	1331.7	1350.7	1346.8	1358.2	1329.1	1313.6	1288.2	1290.3
42.5°	1278.2	1282.3	1298.1	1300.0	1306.4	1274.9	1265.2	1236.4	1238.5
45°	1208.6	1206.5	1222.4	1221.5	1229.8	1202.8	1190.5	1156.7	1160.8
47.5°	1122.2	1125.1	1142.1	1140.3	1151.7	1127.6	1108.0	1085.4	1080.2
50°	1073.8	1075.9	1088.7	1090.9	1098.2	1073.3	1057.9	1034.5	1033.5
52.5°	1015.2	1013.2	1031.8	1036.6	1042.2	1023.9	1004.4	977.6	974.1
55°	933.7	934.8	952.8	960.2	956.0	943.6	913.6	887.1	889.2
57.5°	844.4	852.1	860.5	873.3	874.1	854.0	834.4	808.7	804.5
60°	788.4	789.4	805.4	818.1	818.1	796.3	772.5	750.2	750.2
62.5°	724.7	729.9	743.4	755.4	761.2	743.6	713.9	690.7	689.1
65°	636.6	637.7	651.5	667.6	673.8	649.9	629.2	602.6	597.4
67.5°	545.6	550.0	561.1	573.8	581.0	555.3	533.5	512.7	514.4
70°	487.0	488.1	496.6	512.6	515.7	494.9	473.2	454.1	454.1
72.5°	423.4	430.2	437.2	451.4	453.7	435.5	418.1	399.7	395.6
75°	337.4	342.6	349.1	357.7	360.8	345.2	331.1	315.0	309.8
77.5°	252.1	257.1	268.0	269.3	268.7	257.9	246.8	234.8	229.6
80°	195.2	199.4	211.2	213.2	210.1	201.8	189.9	181.3	176.1
82.5°	141.8	149.2	157.7	159.7	155.8	151.6	141.5	131.3	126.9
85°	70.0	74.2	83.8	87.9	81.7	79.6	73.2	64.7	61.5
87.5°	13.6	16.9	25.5	31.2	23.8	27.9	21.2	15.2	13.6
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	24.4	27.1	23.7	23.7
95°	7.1	7.1	9.9	31.0	29.6	50.3	70.5	66.3	66.3
97.5°	14.4	15.8	22.6	91.7	69.1	67.2	95.3	106.1	108.0
100°	21.2	22.5	33.8	149.8	102.9	87.8	104.4	124.2	128.3
102.5°	29.0	31.5	54.2	235.7	144.7	103.0	119.0	136.6	141.9
105°	43.7	47.9	111.4	395.1	218.6	134.5	149.5	156.6	160.8
107.5°	64.9	81.7	300.1	555.1	310.2	177.6	193.5	192.4	196.0
110°	87.4	121.9	518.9	642.7	377.9	211.1	211.5	222.7	218.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	145.0	242.3	773.9	726.9	445.6	251.2	228.4	253.3	254.7
115°	397.7	683.1	1057.6	844.9	545.7	322.4	259.5	283.7	293.3
117.5°	986.0	1188.4	1202.9	949.7	645.6	401.8	295.0	305.7	318.4
120°	1336.8	1378.2	1270.6	1014.1	712.1	458.4	324.3	320.4	334.2
122.5°	1474.5	1459.6	1325.8	1074.0	777.6	518.3	360.4	338.4	347.7
125°	1585.0	1546.4	1394.7	1156.9	872.9	608.2	428.7	368.1	368.1
127.5°	1651.0	1606.1	1457.8	1230.5	958.9	698.9	510.8	416.3	403.3
130°	1689.4	1641.1	1496.2	1281.4	1015.3	757.5	568.3	457.8	437.2
132.5°	1718.7	1674.9	1532.3	1321.3	1070.6	815.0	625.8	509.4	475.5
135°	1754.2	1717.0	1587.8	1382.3	1147.9	901.1	712.1	598.5	564.1
137.5°	1777.1	1748.1	1637.8	1432.4	1219.5	986.5	799.3	685.2	654.0
140°	1789.5	1766.1	1662.6	1462.1	1263.5	1041.5	860.2	743.9	715.0
142.5°	1801.9	1782.9	1680.6	1495.0	1306.4	1096.5	920.0	803.7	772.5
145°	1827.6	1805.5	1710.5	1534.7	1367.9	1173.4	1012.5	890.6	863.0
147.5°	1845.6	1819.2	1735.1	1577.4	1426.0	1243.1	1097.4	979.7	952.4
150°	1850.1	1822.6	1748.6	1600.2	1460.9	1285.8	1149.3	1037.3	1011.1
152.5°	1846.8	1825.8	1758.8	1619.6	1490.3	1327.3	1196.7	1092.6	1068.6
155°	1848.7	1829.4	1766.9	1645.8	1527.2	1385.2	1267.7	1175.5	1150.7
157.5°	1840.3	1827.6	1772.6	1665.9	1561.3	1437.0	1332.9	1255.3	1230.2
160°	1840.3	1821.0	1772.6	1677.4	1585.0	1470.6	1373.5	1303.9	1283.3
162.5°	1827.9	1810.8	1771.5	1685.6	1607.6	1502.0	1411.9	1346.9	1331.8
165°	1805.0	1791.2	1765.5	1696.5	1635.8	1544.8	1466.6	1408.5	1398.9
167.5°	1787.2	1768.2	1754.2	1696.1	1655.0	1575.6	1512.8	1464.8	1459.2
170°	1766.9	1754.5	1743.0	1693.0	1664.0	1597.8	1545.5	1497.5	1492.0
172.5°	1741.0	1734.1	1728.3	1690.9	1669.6	1616.7	1573.7	1530.1	1520.2
175°	1700.7	1706.2	1704.9	1686.3	1675.3	1640.8	1614.6	1583.3	1570.9
177.5°	1675.8	1673.6	1679.2	1675.8	1674.7	1653.8	1646.5	1625.2	1631.8
180°	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2

(END OF REPORT)