

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: P522485

Luminaire Tested: **SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522485  
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 (5000K)  
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 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

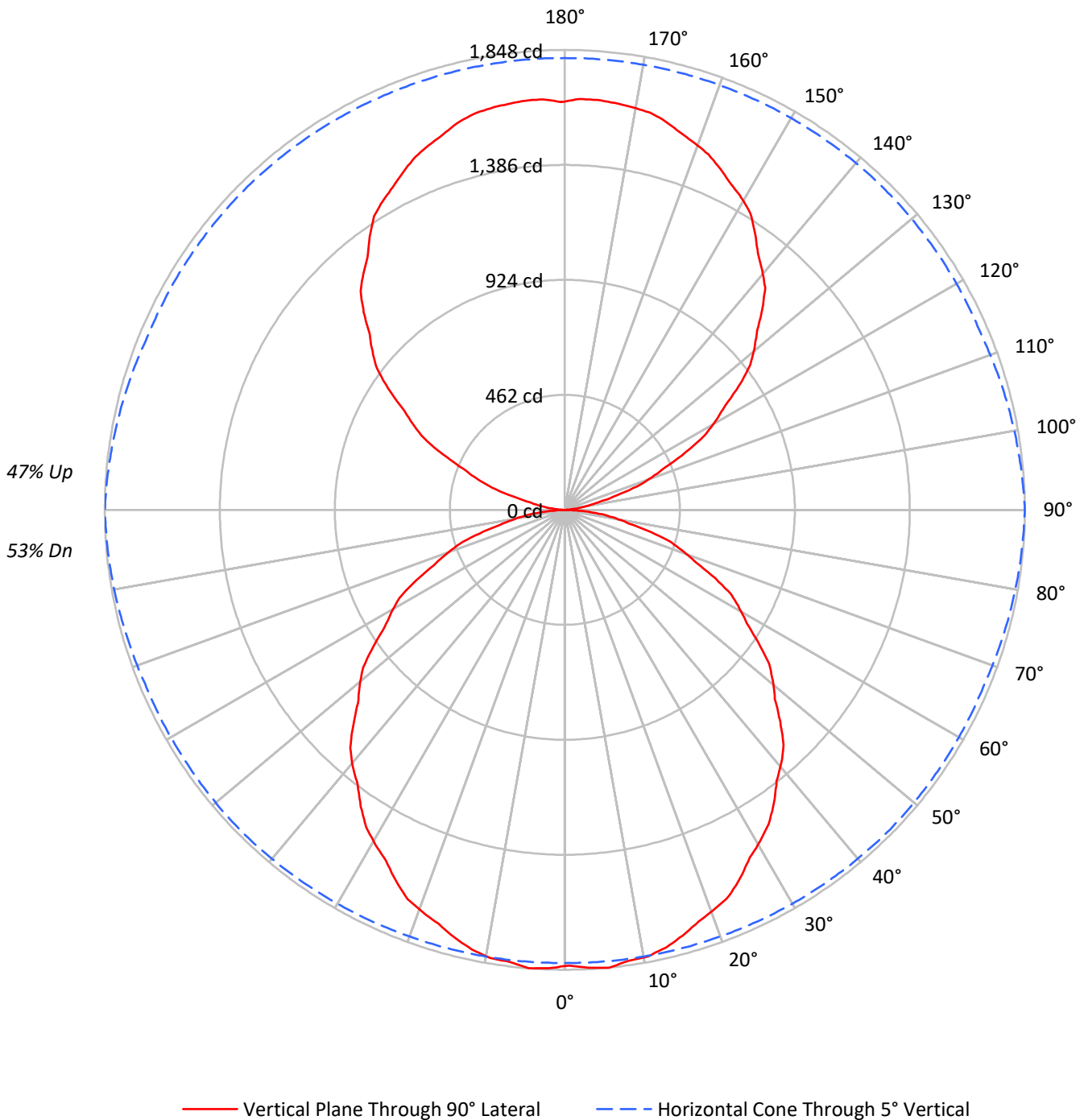
Lumens per Lamp: N/A  
Luminaire Lumens: 9680.4 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 94.5  
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°	29560	29560	29560
5°	29503	29943	29418
10°	29552	29913	29175
15°	29518	29658	29187
20°	29228	29443	28563
25°	28777	29168	28180
30°	28594	28808	27813
35°	28146	28519	27137
40°	27760	28224	26812
45°	27209	27686	26133
50°	26593	27198	25596
55°	25914	26534	24679
60°	25100	26046	23883
65°	23981	25379	22502
70°	22669	24000	21139
75°	20755	22190	19058
80°	17899	19256	16151
85°	12782	14931	11245



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.3	1.8
10°-20°	494.8	5.1
20°-30°	744.5	7.7
30°-40°	889.3	9.2
40°-50°	913.9	9.4
50°-60°	821.5	8.5
60°-70°	624.4	6.5
70°-80°	355.8	3.7
80°-90°	92.6	1.0
90°-100°	43.0	0.4
100°-110°	186.4	1.9
110°-120°	531.6	5.5
120°-130°	808.3	8.3
130°-140°	874.2	9.0
140°-150°	835.3	8.6
150°-160°	687.0	7.1
160°-170°	448.9	4.6
170°-180°	155.3	1.6
0°-30°	1412.6	14.6
0°-40°	2302.0	23.8
0°-60°	4037.3	41.7
0°-90°	5110.2	52.8
90°-120°	761.1	7.9
90°-150°	3279.0	33.9
90°-180°	4570.0	47.2
0°-180°	9680.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1831	1831	1831	1831	1831	
5°	1820	1832	1848	1819	1815	173
15°	1766	1760	1774	1754	1746	497
25°	1615	1642	1637	1616	1582	747
35°	1428	1449	1447	1414	1377	892
45°	1192	1205	1212	1174	1144	916
55°	921	940	943	901	877	821
65°	628	642	664	620	589	621
75°	333	344	356	326	306	352
85°	69	83	81	72	61	85
90°	0	0	0	0	0	2
95°	7	10	29	70	65	9
105°	43	110	216	147	158	50
115°	392	1043	538	256	289	539
125°	1563	1375	861	423	363	1373
135°	1730	1566	1132	702	556	1333
145°	1802	1686	1349	998	851	1129
155°	1823	1742	1506	1250	1134	842
165°	1780	1741	1613	1446	1379	506
175°	1677	1681	1652	1592	1549	162
180°	1638	1638	1638	1638	1638	



TEST NUMBER: P522485

CATALOG NUMBER: SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1830.8	1830.8	1830.8	1830.8	1830.8	1830.8	1830.8	1830.8	1830.8
2.5°	1828.3	1826.6	1834.1	1826.1	1841.7	1833.5	1828.3	1831.3	1814.9
5°	1820.3	1824.4	1831.8	1825.0	1847.5	1814.8	1819.3	1816.1	1815.1
7.5°	1814.3	1817.5	1815.5	1811.3	1829.5	1808.7	1806.7	1800.0	1797.9
10°	1802.5	1806.6	1800.5	1803.0	1824.5	1793.8	1794.2	1777.5	1779.5
12.5°	1780.8	1789.8	1787.9	1778.9	1804.4	1778.7	1784.1	1772.3	1767.8
15°	1765.9	1756.7	1759.7	1762.0	1774.3	1745.7	1754.4	1739.9	1746.1
17.5°	1734.5	1728.8	1730.8	1724.6	1738.7	1709.3	1714.0	1702.4	1698.4
20°	1701.1	1701.1	1703.2	1700.3	1713.6	1685.0	1686.4	1666.5	1662.4
22.5°	1676.0	1671.9	1683.1	1674.3	1686.0	1658.2	1658.0	1633.3	1642.3
25°	1615.3	1620.4	1642.5	1622.9	1637.3	1602.5	1616.3	1589.0	1581.8
27.5°	1568.8	1570.5	1582.6	1572.0	1582.0	1555.2	1567.6	1533.0	1522.8
30°	1533.7	1529.6	1552.5	1536.0	1545.2	1525.8	1527.4	1489.8	1491.8
32.5°	1485.1	1486.0	1511.5	1499.9	1504.2	1478.2	1483.0	1456.0	1445.0
35°	1428.0	1428.0	1448.9	1436.6	1446.9	1415.1	1414.4	1386.0	1376.8
37.5°	1361.5	1354.9	1380.3	1373.8	1381.8	1352.3	1342.0	1315.1	1309.8
40°	1317.1	1313.0	1331.8	1327.8	1339.1	1310.5	1295.2	1270.1	1272.1
42.5°	1260.2	1264.3	1279.9	1281.7	1288.0	1256.9	1247.5	1219.0	1221.1
45°	1191.6	1189.5	1205.2	1204.3	1212.5	1185.9	1173.8	1140.4	1144.5
47.5°	1106.4	1109.3	1126.1	1124.3	1135.5	1111.8	1092.4	1070.1	1065.0
50°	1058.7	1060.8	1073.4	1075.6	1082.8	1058.2	1043.0	1020.0	1019.0
52.5°	1001.0	998.9	1017.3	1022.0	1027.5	1009.5	990.3	963.9	960.4
55°	920.6	921.7	939.5	946.7	942.6	930.3	900.8	874.6	876.7
57.5°	832.5	840.1	848.4	861.0	861.8	842.0	822.7	797.3	793.2
60°	777.3	778.3	794.0	806.6	806.6	785.1	761.6	739.6	739.6
62.5°	714.5	719.6	732.9	744.8	750.5	733.1	703.9	681.0	679.4
65°	627.7	628.7	642.3	658.2	664.3	640.8	620.4	594.1	589.0
67.5°	537.9	542.2	553.2	565.7	572.9	547.5	526.0	505.5	507.2
70°	480.2	481.2	489.6	505.4	508.4	488.0	466.6	447.8	447.8
72.5°	417.4	424.2	431.0	445.1	447.3	429.3	412.2	394.1	390.0
75°	332.7	337.8	344.2	352.6	355.7	340.4	326.4	310.6	305.5
77.5°	248.6	253.5	264.3	265.5	264.9	254.3	243.3	231.5	226.4
80°	192.5	196.6	208.2	210.2	207.1	199.0	187.3	178.8	173.7
82.5°	139.8	147.1	155.5	157.5	153.6	149.5	139.6	129.4	125.1
85°	69.0	73.1	82.6	86.7	80.6	78.5	72.2	63.7	60.7
87.5°	13.4	16.7	25.1	30.8	23.4	27.5	20.9	15.0	13.4
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	4.5	6.7	24.1	26.7	23.4	23.4
95°	7.0	7.0	9.7	30.6	29.2	49.6	69.5	65.3	65.3
97.5°	14.2	15.5	22.2	90.4	68.1	66.2	94.0	104.6	106.5
100°	20.9	22.2	33.4	147.7	101.5	86.5	102.9	122.4	126.5
102.5°	28.6	31.1	53.4	232.4	142.7	101.6	117.3	134.7	139.9
105°	43.1	47.2	109.8	389.5	215.5	132.6	147.4	154.4	158.5
107.5°	64.0	80.5	295.9	547.3	305.9	175.1	190.8	189.7	193.3
110°	86.2	120.2	511.7	633.6	372.6	208.1	208.6	219.6	215.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	142.9	238.9	763.0	716.7	439.4	247.7	225.2	249.7	251.1
115°	392.1	673.5	1042.8	833.1	538.1	317.8	255.8	279.7	289.2
117.5°	972.1	1171.7	1186.0	936.4	636.5	396.2	290.9	301.4	313.9
120°	1318.1	1358.8	1252.7	999.9	702.1	452.0	319.8	315.9	329.5
122.5°	1453.8	1439.1	1307.2	1058.9	766.6	511.1	355.4	333.6	342.9
125°	1562.8	1524.7	1375.1	1140.7	860.6	599.6	422.7	362.9	362.9
127.5°	1627.8	1583.5	1437.4	1213.3	945.4	689.1	503.6	410.4	397.6
130°	1665.7	1618.1	1475.2	1263.4	1001.1	746.8	560.3	451.4	431.0
132.5°	1694.6	1651.3	1510.8	1302.7	1055.6	803.5	617.0	502.3	468.8
135°	1729.6	1692.9	1565.5	1362.9	1131.8	888.4	702.1	590.1	556.1
137.5°	1752.1	1723.6	1614.8	1412.3	1202.4	972.6	788.1	675.6	644.8
140°	1764.4	1741.3	1639.2	1441.5	1245.8	1026.9	848.1	733.5	704.9
142.5°	1776.6	1757.8	1657.0	1474.0	1288.0	1081.1	907.1	792.4	761.6
145°	1801.9	1780.2	1686.5	1513.1	1348.7	1157.0	998.3	878.1	850.9
147.5°	1819.7	1793.6	1710.7	1555.2	1405.9	1225.7	1082.0	966.0	939.1
150°	1824.2	1797.0	1724.0	1577.7	1440.4	1267.8	1133.1	1022.7	996.9
152.5°	1820.8	1800.2	1734.1	1596.9	1469.3	1308.6	1179.9	1077.3	1053.6
155°	1822.8	1803.7	1742.1	1622.7	1505.8	1365.7	1249.9	1159.0	1134.5
157.5°	1814.4	1801.9	1747.7	1642.5	1539.4	1416.8	1314.2	1237.7	1213.0
160°	1814.4	1795.4	1747.7	1653.9	1562.8	1449.9	1354.2	1285.6	1265.2
162.5°	1802.2	1785.3	1746.6	1662.0	1585.0	1480.9	1392.0	1328.0	1313.1
165°	1779.7	1766.1	1740.7	1672.6	1612.8	1523.1	1446.0	1388.8	1379.2
167.5°	1762.1	1743.4	1729.6	1672.2	1631.7	1553.4	1491.6	1444.2	1438.7
170°	1742.1	1729.9	1718.5	1669.2	1640.6	1575.4	1523.8	1476.4	1471.0
172.5°	1716.5	1709.7	1704.0	1667.1	1646.2	1594.0	1551.6	1508.6	1498.8
175°	1676.8	1682.2	1680.9	1662.6	1651.7	1617.8	1592.0	1561.1	1548.9
177.5°	1652.3	1650.1	1655.6	1652.3	1651.2	1630.5	1623.4	1602.4	1608.9
180°	1637.8	1637.8	1637.8	1637.8	1637.8	1637.8	1637.8	1637.8	1637.8

(END OF REPORT)