

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: P522477

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

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522477  
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-100D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 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**

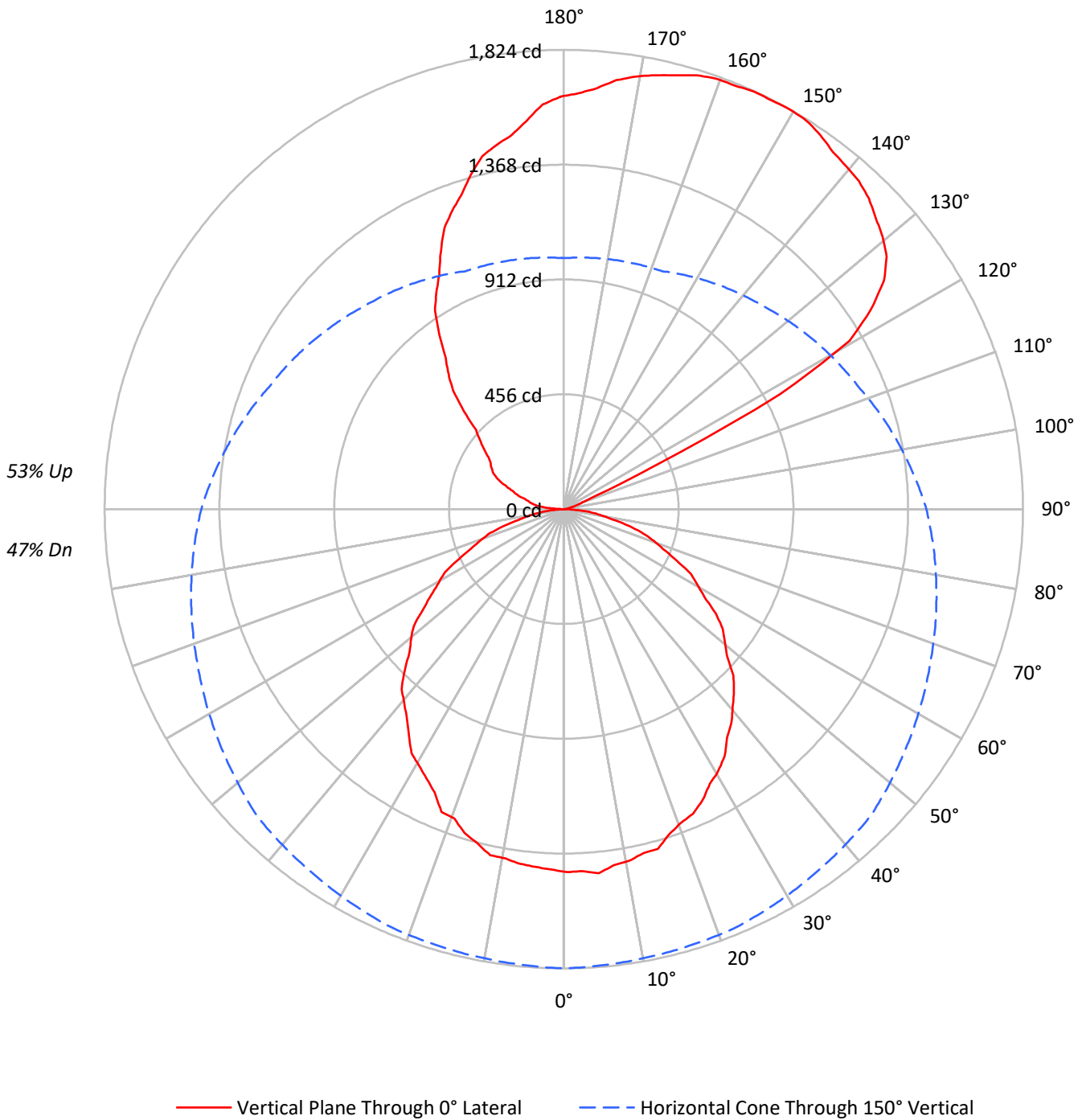
Lumens per Lamp: N/A  
Luminaire Lumens: 8599.6 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 79.7  
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



TEST NUMBER: P522477  
CATALOG NUMBER: SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (5000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P522477

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

**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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	97	93	89	85	89	85	82	79	71	69	67	59	57	55	47	46	45	39
2	88	81	75	69	81	74	69	64	62	58	55	51	48	46	41	39	37	33
3	80	71	63	58	73	65	59	54	55	50	46	45	42	39	36	34	32	27
4	73	63	55	49	67	58	51	45	49	43	39	40	36	33	32	30	27	23
5	67	56	47	41	62	51	44	39	43	38	34	36	32	29	29	26	24	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	34	28	23	29	24	20	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	23276	23276	23276
5°	23551	23467	23110
10°	23309	23396	23069
15°	23398	23363	22925
20°	22847	23206	22397
25°	22812	22869	22030
30°	22527	22820	21806
35°	22003	22456	21425
40°	21785	22160	20993
45°	21571	21763	20614
50°	20813	21469	20024
55°	20614	21056	19319
60°	19695	20437	18613
65°	18823	19786	17666
70°	17977	18864	16494
75°	16706	17361	14878
80°	14300	15174	12450
85°	10652	11819	8522



TEST NUMBER: P522477

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.5	1.6
10°-20°	390.2	4.5
20°-30°	585.8	6.8
30°-40°	700.3	8.1
40°-50°	720.6	8.4
50°-60°	648.7	7.5
60°-70°	492.7	5.7
70°-80°	281.1	3.3
80°-90°	73.6	0.9
90°-100°	43.0	0.5
100°-110°	186.4	2.2
110°-120°	531.6	6.2
120°-130°	808.3	9.4
130°-140°	874.2	10.2
140°-150°	835.3	9.7
150°-160°	687.0	8.0
160°-170°	448.9	5.2
170°-180°	155.3	1.8
0°-30°	1112.5	12.9
0°-40°	1812.7	21.1
0°-60°	3182.0	37.0
0°-90°	4029.4	46.9
90°-120°	761.1	8.9
90°-150°	3279.0	38.1
90°-180°	4570.0	53.1
0°-180°	8599.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1442	1442	1442	1442	1442	
5°	1453	1442	1448	1423	1426	137
15°	1400	1391	1398	1378	1372	391
25°	1280	1288	1284	1270	1237	588
35°	1116	1144	1139	1114	1087	703
45°	945	952	953	932	903	722
55°	732	745	748	718	686	648
65°	493	506	518	482	462	490
75°	268	275	278	254	238	280
85°	58	66	64	58	46	69
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: P522477

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6
2.5°	1439.9	1451.4	1435.8	1440.3	1454.2	1437.0	1441.6	1433.2	1432.4
5°	1453.1	1435.7	1441.6	1433.6	1447.9	1434.6	1422.8	1438.2	1425.9
7.5°	1428.4	1417.2	1440.2	1428.6	1436.2	1427.2	1428.4	1419.9	1419.7
10°	1421.7	1414.6	1421.7	1421.9	1427.0	1414.7	1413.4	1404.0	1407.1
12.5°	1402.5	1412.5	1401.7	1415.3	1426.1	1404.9	1396.6	1399.9	1405.4
15°	1399.8	1396.7	1391.4	1387.5	1397.7	1373.1	1377.8	1368.5	1371.5
17.5°	1357.3	1363.0	1365.7	1362.3	1371.5	1349.2	1343.9	1343.9	1345.4
20°	1329.7	1342.0	1350.6	1341.4	1350.6	1333.2	1329.7	1316.8	1303.5
22.5°	1314.6	1312.2	1329.7	1311.3	1323.8	1302.3	1312.1	1289.7	1296.8
25°	1280.5	1270.3	1287.8	1277.5	1283.7	1266.3	1270.1	1242.7	1236.6
27.5°	1235.1	1235.1	1245.8	1241.5	1245.8	1231.9	1228.0	1203.0	1200.6
30°	1208.3	1200.1	1219.8	1210.7	1224.0	1191.3	1193.7	1173.7	1169.6
32.5°	1172.3	1175.6	1188.9	1177.3	1193.1	1162.0	1167.7	1137.1	1142.0
35°	1116.3	1122.4	1143.5	1128.0	1139.3	1120.9	1114.2	1094.1	1087.0
37.5°	1080.5	1071.1	1081.3	1082.2	1085.7	1065.5	1058.1	1033.9	1036.1
40°	1033.6	1031.6	1046.2	1050.4	1051.4	1032.0	1026.3	997.0	996.0
42.5°	990.9	993.0	1005.2	1010.2	1010.4	991.0	990.3	958.6	962.5
45°	944.7	941.6	952.0	951.0	953.1	932.6	932.1	901.8	902.8
47.5°	872.1	878.6	885.7	887.8	895.7	878.3	866.0	841.9	838.2
50°	828.6	840.8	842.2	851.7	854.7	833.2	823.3	803.3	797.2
52.5°	790.1	796.6	802.0	808.2	812.9	793.0	778.1	759.1	757.8
55°	732.3	728.2	744.9	742.9	748.0	732.7	717.7	696.5	686.3
57.5°	657.6	665.6	669.3	677.2	680.6	663.9	650.7	628.3	627.5
60°	609.9	621.2	622.5	636.0	632.9	618.6	604.7	584.6	576.4
62.5°	566.4	569.5	578.1	587.6	588.6	572.6	562.0	540.3	534.6
65°	492.7	498.9	506.3	518.9	517.9	506.6	482.3	470.6	462.4
67.5°	426.0	428.0	438.1	444.1	448.2	432.6	418.7	402.3	398.8
70°	380.8	378.8	391.3	395.5	399.6	387.4	373.5	358.6	349.4
72.5°	331.4	333.5	342.7	349.5	351.9	339.7	324.9	313.5	307.6
75°	267.8	265.8	275.1	279.3	278.3	269.1	254.2	246.7	238.5
77.5°	197.3	201.4	206.9	210.7	209.2	203.1	191.4	180.1	176.6
80°	153.8	157.9	164.2	166.3	163.2	157.1	149.6	139.0	133.9
82.5°	113.6	116.1	122.4	126.1	121.4	117.7	111.1	103.0	97.1
85°	57.5	59.6	65.9	67.9	63.8	63.8	57.5	50.1	46.0
87.5°	13.4	14.2	19.2	25.0	20.1	21.7	16.7	12.5	9.2
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



TEST NUMBER: P522477

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

**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)