

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: P522462

Luminaire Tested: **SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522462  
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-050D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 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**

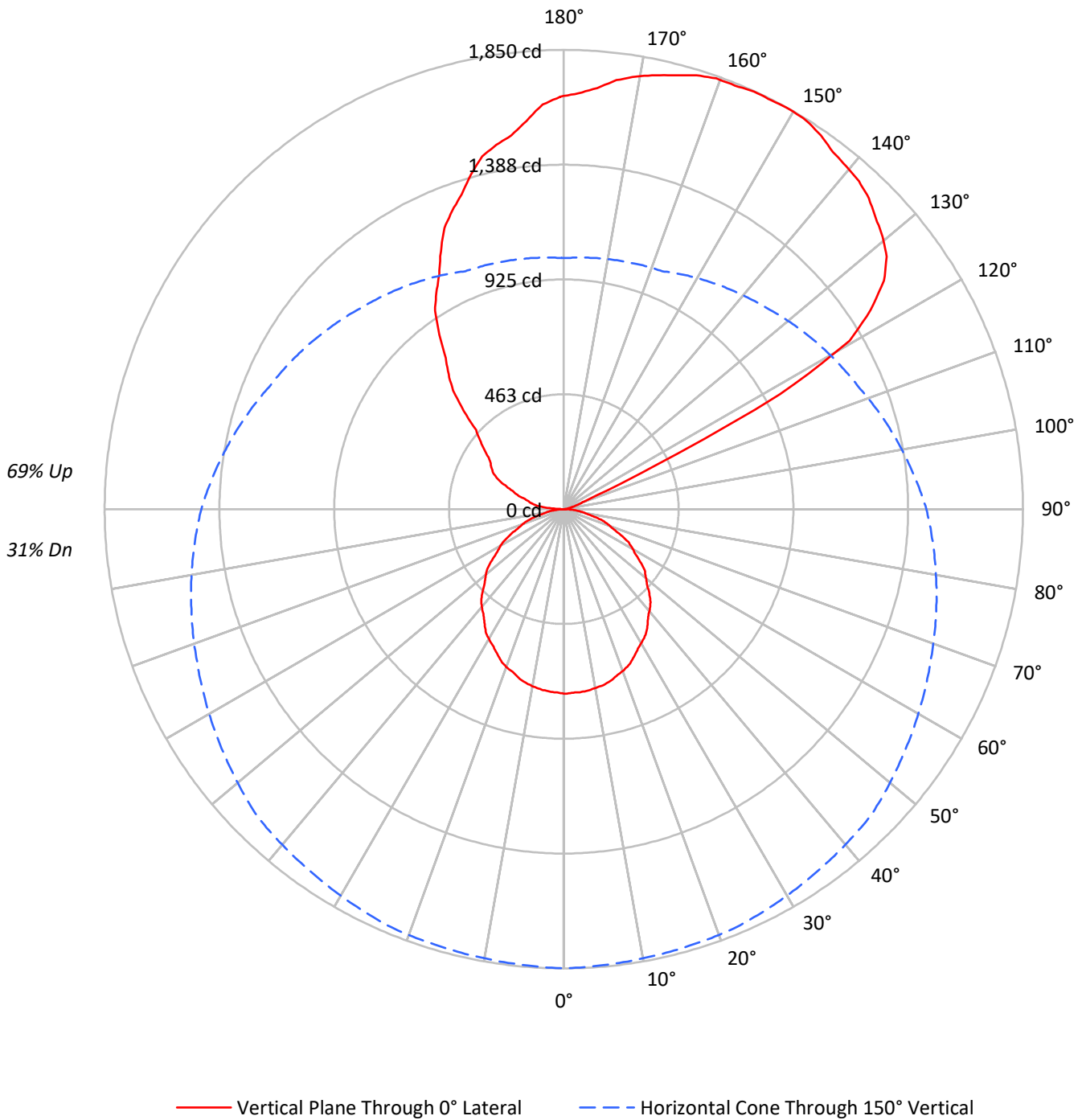
Lumens per Lamp: N/A  
Luminaire Lumens: 6710.6 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 56.5  
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



TEST NUMBER: P522462  
CATALOG NUMBER: SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (5700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P522462

CATALOG NUMBER: SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (5700K)

**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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	93	89	85	82	84	80	77	74	64	61	59	48	47	45	34	33	32	26
2	85	78	72	67	76	70	65	61	56	52	49	42	40	38	30	28	27	22
3	77	68	61	55	69	62	55	51	49	45	41	37	34	32	26	25	23	18
4	71	60	53	47	63	54	48	43	43	39	35	33	30	27	23	21	20	15
5	65	53	46	40	58	48	41	36	39	34	30	29	26	23	21	19	17	13
6	60	48	40	34	53	43	36	31	35	30	26	27	23	20	19	17	15	12
7	55	43	35	30	49	39	32	27	31	26	23	24	21	18	17	15	13	10
8	51	39	31	26	46	35	29	24	28	23	20	22	18	16	16	14	12	9
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	15	12	11	8
10	44	32	25	21	40	29	23	19	24	19	16	19	15	13	14	11	10	8

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

	0°	90°	180°
0°	12009	12009	12009
5°	12003	12125	11951
10°	11986	12108	11899
15°	11972	12043	11813
20°	11887	11978	11668
25°	11738	11852	11475
30°	11572	11731	11315
35°	11440	11586	11105
40°	11228	11428	10914
45°	11024	11266	10661
50°	10741	11060	10394
55°	10514	10812	10007
60°	10211	10588	9629
65°	9647	10136	9081
70°	9116	9668	8464
75°	8409	8871	7742
80°	7299	7792	6509
85°	5502	6095	4909



TEST NUMBER: P522462

CATALOG NUMBER: SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (5700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.4	1.0
10°-20°	201.1	3.0
20°-30°	302.5	4.5
30°-40°	361.2	5.4
40°-50°	371.5	5.5
50°-60°	334.2	5.0
60°-70°	252.8	3.8
70°-80°	143.7	2.1
80°-90°	38.0	0.6
90°-100°	43.7	0.7
100°-110°	189.1	2.8
110°-120°	539.2	8.0
120°-130°	819.8	12.2
130°-140°	886.7	13.2
140°-150°	847.2	12.6
150°-160°	696.8	10.4
160°-170°	455.3	6.8
170°-180°	157.5	2.3
0°-30°	573.9	8.6
0°-40°	935.1	13.9
0°-60°	1640.8	24.5
0°-90°	2075.3	30.9
90°-120°	771.9	11.5
90°-150°	3325.7	49.6
90°-180°	4635.0	69.1
0°-180°	6710.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	744	744	744	744	744	
5°	741	741	748	741	737	70
15°	716	717	720	712	707	202
25°	659	665	665	656	644	303
35°	580	587	588	575	563	362
45°	483	489	493	478	467	372
55°	374	381	384	369	356	334
65°	252	260	265	249	238	251
75°	135	139	142	132	124	142
85°	30	34	33	30	26	35
90°	0	0	0	0	0	1
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: P522462

CATALOG NUMBER: SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	743.8	743.8	743.8	743.8	743.8	743.8	743.8	743.8	743.8
2.5°	740.4	742.9	743.0	742.3	748.9	742.3	743.8	742.1	739.6
5°	740.6	740.6	740.6	739.8	748.1	738.7	740.6	737.4	737.4
7.5°	736.2	736.4	737.2	734.5	743.6	733.2	735.1	731.7	732.6
10°	731.1	732.1	732.1	730.2	738.5	728.1	730.0	725.8	725.8
12.5°	726.0	726.2	727.0	724.3	732.6	721.4	723.2	719.0	718.1
15°	716.2	716.2	717.3	713.2	720.5	710.1	712.0	706.7	706.7
17.5°	702.0	701.8	704.3	699.0	706.5	694.8	698.6	692.0	690.1
20°	691.8	690.8	695.0	688.8	697.1	684.7	687.6	680.1	679.1
22.5°	679.1	678.0	684.0	677.8	685.2	672.8	675.7	665.7	665.5
25°	658.9	657.9	665.3	659.1	665.3	653.9	655.7	645.1	644.1
27.5°	636.0	636.0	644.7	637.4	644.5	633.1	633.9	623.1	623.1
30°	620.7	620.7	630.3	623.0	629.2	617.8	618.6	606.9	606.9
32.5°	604.6	604.6	612.5	606.9	613.1	601.7	601.6	590.0	590.0
35°	580.4	578.3	586.8	581.6	587.8	576.4	575.1	563.4	563.4
37.5°	551.3	550.3	559.6	555.9	560.9	549.7	546.7	535.4	536.5
40°	532.7	531.6	540.1	538.1	542.2	531.8	526.3	516.8	517.8
42.5°	513.1	511.3	519.7	518.5	522.7	512.3	507.6	497.2	497.4
45°	482.8	482.8	489.2	489.2	493.4	482.0	477.5	466.9	466.9
47.5°	450.5	450.7	457.3	457.6	461.6	451.6	446.7	435.2	435.0
50°	427.6	428.6	436.1	437.2	440.3	432.0	425.5	414.9	413.8
52.5°	408.1	406.6	414.0	416.0	418.3	410.0	403.4	392.8	391.7
55°	373.5	374.5	380.9	384.1	384.1	376.8	369.3	358.6	355.5
57.5°	339.1	340.6	345.7	349.8	350.8	342.7	334.9	325.2	321.1
60°	316.2	315.2	323.6	326.8	327.9	320.6	312.0	302.3	298.2
62.5°	291.6	292.2	298.2	303.1	304.1	296.0	288.2	276.0	272.7
65°	252.5	255.6	260.0	263.2	265.3	259.0	249.4	239.8	237.7
67.5°	216.9	219.0	223.2	228.2	229.4	222.3	213.7	205.4	203.1
70°	193.1	195.2	199.5	202.7	204.8	198.6	189.9	182.4	179.3
72.5°	169.3	171.4	174.9	178.1	180.2	173.9	166.2	159.5	157.3
75°	134.8	136.8	139.0	141.1	142.2	138.0	131.6	125.2	124.1
77.5°	100.6	102.7	105.0	107.8	106.7	103.8	97.6	93.3	92.1
80°	78.5	80.6	83.8	84.9	83.8	81.7	76.4	72.1	70.0
82.5°	58.1	60.2	63.5	63.6	61.8	61.3	56.9	53.4	52.2
85°	29.7	31.8	34.0	35.0	32.9	32.9	29.7	26.5	26.5
87.5°	5.9	7.6	10.2	12.7	10.2	11.0	8.5	5.9	5.9
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



TEST NUMBER: P522462

CATALOG NUMBER: SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (5700K)

**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)