

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: P522611

Luminaire Tested: **SQW-F-100U-125D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522611
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-100U-125D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

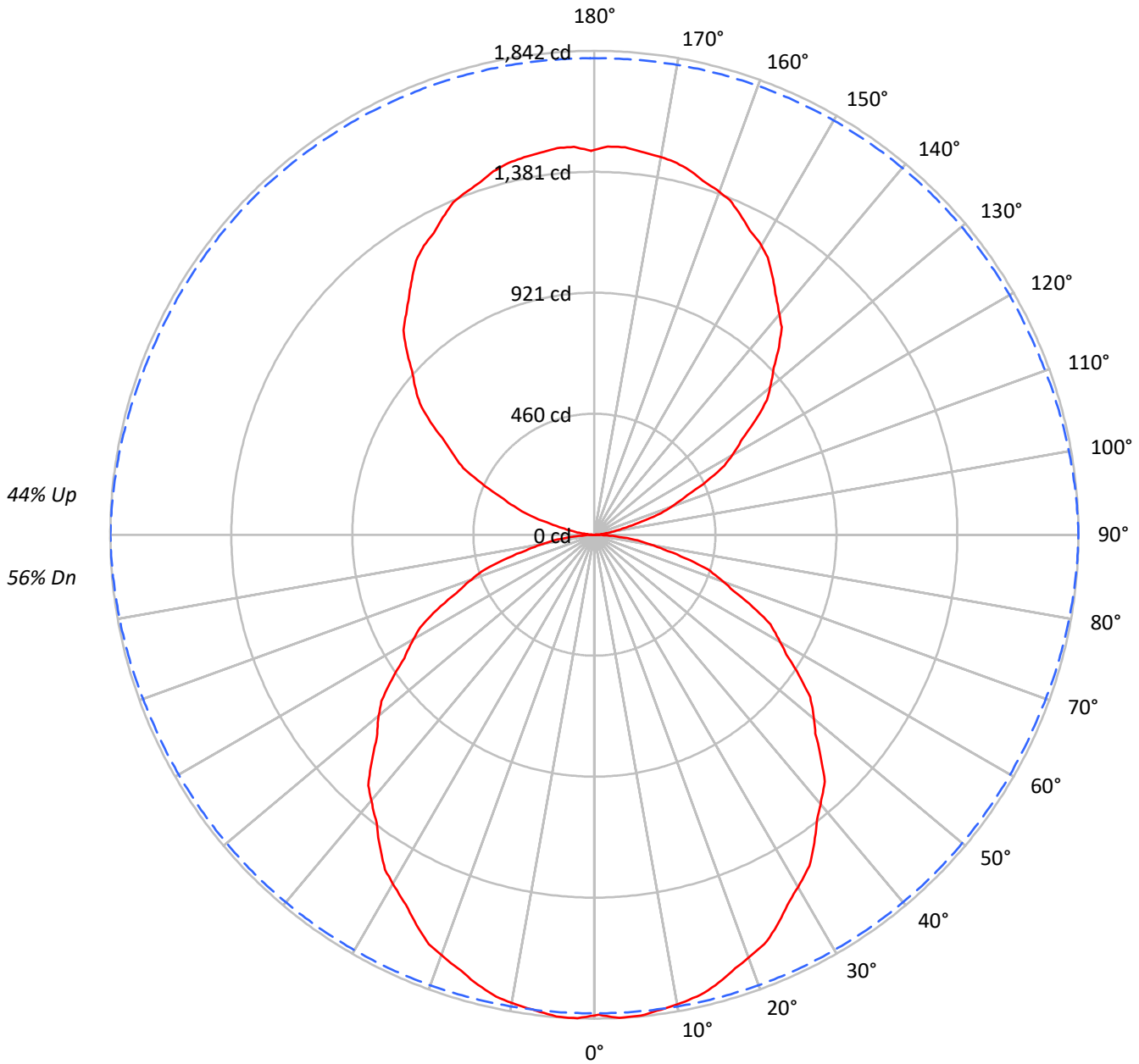
Lumens per Lamp: N/A
Luminaire Lumens: 9163.8 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 93.3
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: P522611
CATALOG NUMBER: SQW-F-100U-125D-93050-1D-UNV-STD-W-4 (4500K)

Luminous Intensity Polar Plot



— Vertical Plane Through 90° Lateral - - - Horizontal Cone Through 2.5° Vertical



TEST NUMBER: P522611

CATALOG NUMBER: SQW-F-100U-125D-93050-1D-UNV-STD-W-4 (4500K)

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	50	30	10	0	
RCR																						
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56				
1	99	94	91	87	92	88	84	81	76	73	71	64	63	61	54	53	52	47				
2	90	82	76	71	83	77	71	67	66	62	58	56	53	51	47	45	43	39				
3	82	72	65	59	76	67	61	55	58	53	49	50	46	43	42	39	37	33				
4	75	64	56	50	69	60	52	47	52	46	42	44	40	36	37	34	31	28				
5	69	57	49	42	64	53	46	40	46	40	36	40	35	31	33	30	27	24				
6	63	51	43	37	59	48	40	35	42	36	31	36	31	27	30	27	24	21				
7	58	46	38	32	54	43	36	31	38	32	27	32	28	24	28	24	21	19				
8	54	42	34	28	50	39	32	27	34	28	24	30	25	22	25	22	19	17				
9	51	38	30	25	47	36	29	24	31	26	22	27	23	19	23	20	17	15				
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	22	18	15	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29497	29497	29497
5°	29577	29807	29313
10°	29535	29719	29117
15°	29466	29585	28938
20°	29222	29362	28575
25°	28883	29083	28067
30°	28519	28728	27591
35°	28186	28407	27001
40°	27695	28015	26494
45°	27190	27585	25795
50°	26819	27151	25206
55°	26156	26587	24352
60°	25404	25998	23402
65°	24458	25352	22204
70°	23207	24024	20899
75°	21584	22352	18858
80°	18354	19396	15714
85°	13950	15080	10745



TEST NUMBER: P522611

CATALOG NUMBER: SQW-F-100U-125D-93050-1D-UNV-STD-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	1.9
10°-20°	493.6	5.4
20°-30°	742.3	8.1
30°-40°	886.8	9.7
40°-50°	912.0	10.0
50°-60°	821.0	9.0
60°-70°	625.4	6.8
70°-80°	356.5	3.9
80°-90°	92.8	1.0
90°-100°	36.9	0.4
100°-110°	163.6	1.8
110°-120°	470.3	5.1
120°-130°	716.3	7.8
130°-140°	777.6	8.5
140°-150°	743.6	8.1
150°-160°	612.6	6.7
160°-170°	400.9	4.4
170°-180°	138.7	1.5
0°-30°	1408.7	15.4
0°-40°	2295.5	25.0
0°-60°	4028.6	44.0
0°-90°	5103.2	55.7
90°-120°	670.9	7.3
90°-150°	2908.4	31.7
90°-180°	4061.0	44.3
0°-180°	9163.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1827	1827	1827	1827	1827	
5°	1825	1824	1839	1813	1809	173
15°	1763	1763	1770	1740	1731	497
25°	1621	1636	1632	1602	1576	747
35°	1430	1446	1441	1407	1370	893
45°	1191	1206	1208	1164	1130	920
55°	929	940	944	897	865	830
65°	640	652	664	613	581	633
75°	346	353	358	319	302	365
85°	75	88	81	69	58	89
90°	0	0	0	0	0	3
95°	5	8	26	57	56	7
105°	37	99	188	129	138	43
115°	353	927	474	222	249	487
125°	1401	1220	756	374	319	1230
135°	1544	1398	1002	621	494	1192
145°	1616	1504	1195	884	754	1013
155°	1632	1566	1338	1108	1010	756
165°	1598	1558	1435	1289	1227	453
175°	1504	1508	1479	1413	1379	145
180°	1461	1461	1461	1461	1461	



TEST NUMBER: P522611

CATALOG NUMBER: SQW-F-100U-125D-93050-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9
2.5°	1821.2	1825.2	1826.9	1825.7	1841.6	1823.3	1823.7	1818.7	1813.1
5°	1824.9	1822.9	1823.9	1820.2	1839.1	1815.3	1812.7	1807.6	1808.6
7.5°	1812.9	1811.5	1812.3	1807.0	1824.9	1800.8	1798.8	1793.5	1793.1
10°	1801.5	1798.5	1802.5	1794.8	1812.7	1787.8	1784.2	1778.0	1776.0
12.5°	1788.4	1784.7	1789.5	1780.1	1797.2	1769.9	1769.5	1760.9	1759.7
15°	1762.8	1762.8	1762.8	1755.0	1769.9	1742.1	1740.4	1731.2	1731.2
17.5°	1726.8	1727.6	1732.9	1722.6	1734.9	1708.0	1704.6	1693.8	1692.4
20°	1700.7	1700.7	1710.9	1694.9	1708.9	1682.0	1679.3	1662.1	1663.1
22.5°	1669.8	1669.8	1682.4	1668.0	1680.4	1653.5	1650.0	1629.5	1630.5
25°	1621.3	1619.3	1635.6	1621.6	1632.5	1605.7	1602.0	1577.5	1575.5
27.5°	1567.2	1569.0	1584.7	1570.1	1580.0	1550.7	1551.7	1522.5	1518.9
30°	1529.7	1530.7	1548.0	1535.0	1540.9	1514.1	1513.4	1481.8	1479.9
32.5°	1490.6	1490.8	1509.0	1493.5	1502.7	1475.0	1471.1	1441.1	1438.3
35°	1430.0	1429.0	1446.3	1435.2	1441.2	1412.3	1406.6	1378.9	1369.9
37.5°	1361.2	1362.0	1378.3	1371.9	1375.6	1348.0	1336.8	1309.2	1305.8
40°	1314.0	1314.0	1330.2	1326.2	1329.2	1302.4	1289.5	1261.9	1257.0
42.5°	1265.1	1266.7	1281.4	1278.3	1285.3	1256.0	1239.9	1213.9	1207.3
45°	1190.8	1193.8	1206.1	1203.1	1208.1	1183.2	1164.3	1136.7	1129.7
47.5°	1120.6	1117.6	1131.4	1129.6	1131.4	1107.1	1088.2	1059.6	1054.0
50°	1067.7	1064.7	1076.8	1079.9	1080.9	1055.0	1036.1	1007.5	1003.5
52.5°	1013.1	1010.1	1023.1	1027.8	1028.0	1003.7	981.6	954.6	950.6
55°	929.2	924.3	940.4	946.5	944.5	923.6	896.7	873.1	865.1
57.5°	844.6	844.0	857.8	863.3	862.1	841.4	814.6	790.6	782.5
60°	786.7	783.8	800.0	807.1	805.1	785.2	755.2	733.6	724.7
62.5°	728.9	729.1	743.0	749.3	751.3	727.4	699.8	675.0	668.5
65°	640.2	636.2	652.4	658.6	663.6	638.7	612.7	588.1	581.2
67.5°	551.0	548.0	559.2	566.4	570.8	548.5	523.1	502.7	499.7
70°	491.6	488.6	499.7	506.9	508.9	489.0	462.1	445.7	442.7
72.5°	433.0	430.0	438.7	445.9	450.3	428.8	403.4	387.8	380.9
75°	346.0	344.1	353.2	353.3	358.3	337.4	318.6	303.3	302.3
77.5°	259.3	260.7	267.3	267.7	268.9	253.4	238.6	221.2	220.2
80°	197.4	204.4	208.6	210.6	208.6	198.7	183.2	169.9	169.0
82.5°	146.2	151.5	159.8	158.5	154.9	147.3	135.2	122.7	121.7
85°	75.3	80.3	87.5	87.4	81.4	77.4	69.2	59.0	58.0
87.5°	17.9	21.1	28.5	30.8	25.2	26.0	17.9	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	2.2	3.3	5.4	20.4	22.9	20.7	19.6
95°	5.4	5.4	8.2	25.9	25.9	41.8	57.2	55.8	55.8
97.5°	12.3	13.6	19.1	78.8	58.8	57.2	81.7	89.9	90.7
100°	17.7	19.0	30.0	128.4	87.1	73.8	87.1	106.3	110.3
102.5°	24.2	26.6	47.4	202.7	123.1	88.5	102.4	116.1	120.1
105°	36.8	40.8	99.4	339.6	187.9	117.3	129.3	136.2	137.5
107.5°	55.3	70.2	272.0	477.7	266.6	155.3	162.3	167.0	168.6
110°	74.9	106.8	472.4	561.0	325.4	184.3	179.7	191.9	189.2

TEST NUMBER: P522611

CATALOG NUMBER: SQW-F-100U-125D-93050-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	126.1	219.8	693.5	629.4	384.2	218.6	196.1	216.0	217.6
115°	352.6	605.6	927.2	726.7	473.8	278.1	221.9	241.2	249.2
117.5°	885.0	1053.0	1050.2	816.8	559.8	348.2	253.0	262.2	271.2
120°	1189.9	1215.2	1112.3	877.6	615.4	398.4	279.1	275.2	283.2
122.5°	1303.2	1282.7	1159.2	931.1	672.0	450.8	312.9	289.3	296.3
125°	1401.0	1361.0	1219.9	1007.2	755.6	528.0	374.4	319.9	318.6
127.5°	1455.1	1413.3	1279.2	1073.4	832.4	608.2	444.4	363.2	351.0
130°	1481.3	1442.7	1320.6	1113.9	883.6	662.6	495.6	401.2	382.6
132.5°	1512.9	1471.1	1350.0	1155.5	932.6	713.8	546.8	446.9	425.1
135°	1543.9	1505.3	1398.2	1209.7	1002.0	789.1	620.8	522.2	494.2
137.5°	1571.7	1536.3	1442.3	1252.4	1064.7	863.1	699.3	603.2	569.1
140°	1590.2	1551.6	1460.9	1285.2	1102.8	909.8	751.5	655.6	629.0
142.5°	1596.7	1573.0	1480.5	1312.7	1145.3	954.4	803.8	704.7	680.2
145°	1616.1	1600.1	1504.4	1345.8	1195.4	1021.0	883.6	780.9	754.3
147.5°	1628.6	1604.6	1526.5	1381.5	1244.4	1080.6	956.0	857.4	832.7
150°	1629.7	1611.1	1543.9	1403.5	1277.1	1124.0	1000.7	907.6	885.0
152.5°	1638.4	1615.5	1552.6	1422.2	1301.0	1160.7	1045.3	958.7	934.0
155°	1632.4	1616.4	1565.7	1446.2	1338.3	1207.9	1108.2	1031.5	1010.2
157.5°	1632.4	1612.7	1567.3	1464.8	1374.3	1259.8	1167.1	1096.2	1080.2
160°	1621.5	1613.5	1568.4	1478.0	1392.8	1289.0	1206.3	1141.8	1120.5
162.5°	1617.2	1603.9	1570.6	1486.9	1409.1	1312.7	1240.0	1178.9	1163.0
165°	1598.4	1586.4	1557.5	1490.9	1435.0	1355.1	1289.3	1234.7	1226.7
167.5°	1576.9	1567.5	1548.5	1497.4	1452.2	1386.9	1331.5	1287.4	1276.5
170°	1561.6	1547.0	1539.8	1500.8	1460.9	1406.3	1358.8	1319.0	1307.0
172.5°	1535.5	1533.6	1527.8	1492.5	1468.5	1423.5	1383.8	1347.4	1339.7
175°	1504.4	1504.4	1508.5	1486.6	1478.6	1441.3	1413.2	1391.2	1379.2
177.5°	1468.5	1469.6	1478.3	1477.2	1478.3	1457.0	1448.9	1428.1	1426.0
180°	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9

(END OF REPORT)