

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: P522612

Luminaire Tested: **SQW-F-100U-125D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522612  
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 (5000K)  
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 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

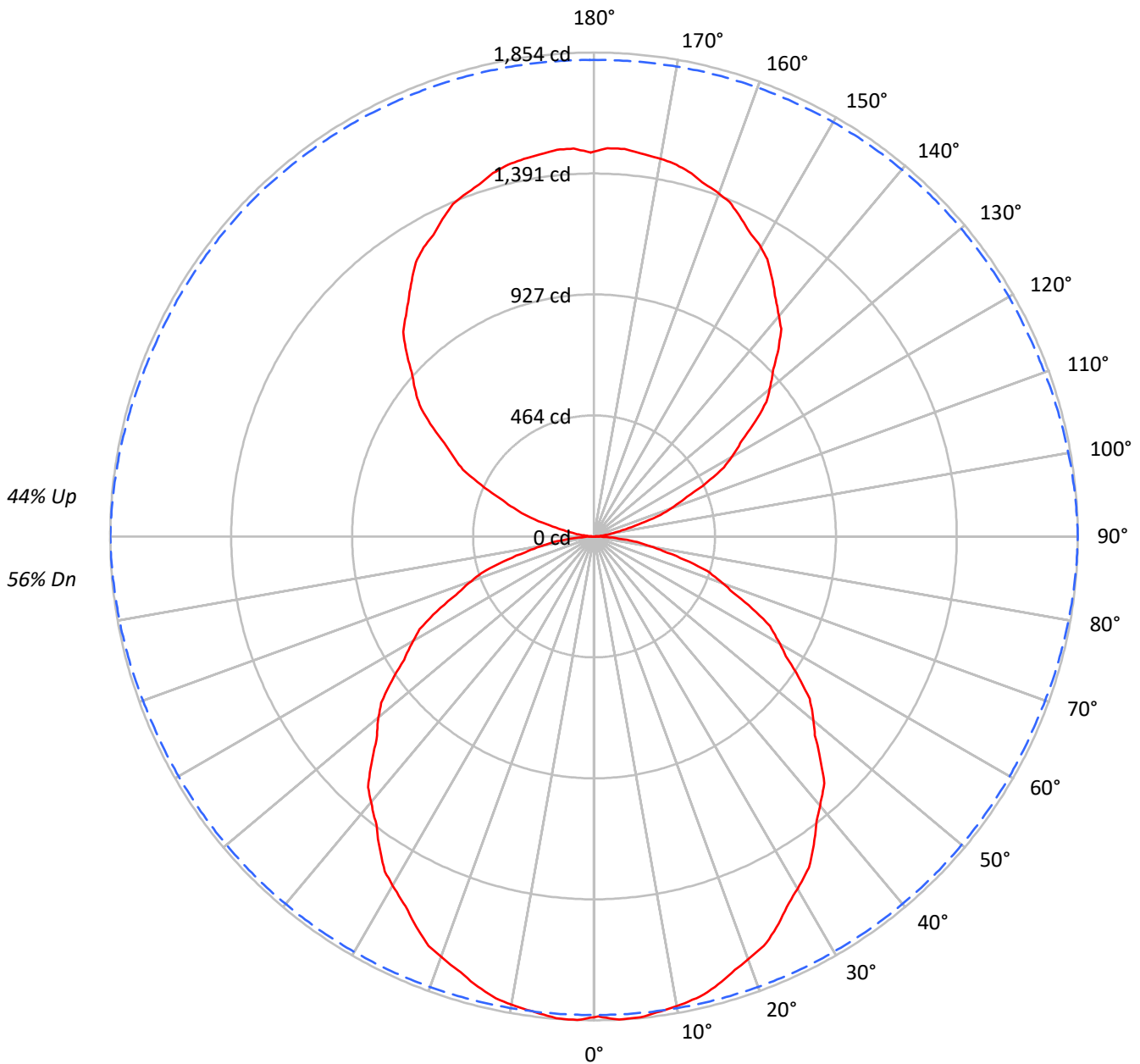
Lumens per Lamp: N/A  
Luminaire Lumens: 9226.3 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

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



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### Luminous Intensity Polar Plot



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



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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	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°	29699	29699	29699
5°	29778	30011	29512
10°	29737	29921	29316
15°	29666	29787	29137
20°	29421	29562	28770
25°	29081	29282	28260
30°	28715	28924	27777
35°	28377	28600	27187
40°	27883	28207	26673
45°	27375	27773	25971
50°	27000	27336	25380
55°	26337	26767	24518
60°	25578	26176	23560
65°	24627	25524	22353
70°	23363	24189	21045
75°	21734	22501	18983
80°	18484	19535	15816
85°	14042	15191	10819



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.9	1.9
10°-20°	497.0	5.4
20°-30°	747.4	8.1
30°-40°	892.8	9.7
40°-50°	918.2	10.0
50°-60°	826.6	9.0
60°-70°	629.6	6.8
70°-80°	358.9	3.9
80°-90°	93.5	1.0
90°-100°	37.1	0.4
100°-110°	164.8	1.8
110°-120°	473.5	5.1
120°-130°	721.2	7.8
130°-140°	782.9	8.5
140°-150°	748.7	8.1
150°-160°	616.8	6.7
160°-170°	403.6	4.4
170°-180°	139.7	1.5
0°-30°	1418.3	15.4
0°-40°	2311.2	25.0
0°-60°	4056.0	44.0
0°-90°	5138.0	55.7
90°-120°	675.4	7.3
90°-150°	2928.2	31.7
90°-180°	4088.0	44.3
0°-180°	9226.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1839	1839	1839	1839	1839	
5°	1837	1836	1852	1825	1821	174
15°	1775	1775	1782	1752	1743	500
25°	1632	1647	1644	1613	1586	752
35°	1440	1456	1451	1416	1379	899
45°	1199	1214	1216	1172	1137	926
55°	936	947	951	903	871	836
65°	645	657	668	617	585	637
75°	348	356	361	321	304	367
85°	76	88	82	70	58	90
90°	0	0	0	0	0	3
95°	6	8	26	58	56	7
105°	37	100	189	130	138	43
115°	355	934	477	223	251	491
125°	1410	1228	761	377	321	1238
135°	1554	1408	1009	625	498	1200
145°	1627	1515	1204	890	759	1019
155°	1644	1576	1348	1116	1017	761
165°	1609	1568	1445	1298	1235	456
175°	1515	1519	1489	1423	1389	146
180°	1471	1471	1471	1471	1471	



TEST NUMBER: P522612

CATALOG NUMBER: SQW-F-100U-125D-93050-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4
2.5°	1833.6	1837.6	1839.4	1838.1	1854.1	1835.7	1836.1	1831.1	1825.4
5°	1837.3	1835.3	1836.3	1832.6	1851.7	1827.6	1825.0	1819.9	1820.9
7.5°	1825.2	1823.8	1824.6	1819.3	1837.3	1813.1	1811.1	1805.8	1805.4
10°	1813.8	1810.8	1814.8	1807.0	1825.0	1800.0	1796.3	1790.1	1788.1
12.5°	1800.6	1796.8	1801.7	1792.2	1809.5	1782.0	1781.6	1772.9	1771.7
15°	1774.8	1774.8	1774.8	1767.0	1782.0	1753.9	1752.3	1743.1	1743.1
17.5°	1738.5	1739.3	1744.7	1734.3	1746.7	1719.7	1716.2	1705.3	1703.9
20°	1712.3	1712.3	1722.6	1706.5	1720.5	1693.5	1690.8	1673.4	1674.4
22.5°	1681.2	1681.2	1693.9	1679.4	1691.8	1664.8	1661.3	1640.6	1641.6
25°	1632.4	1630.4	1646.7	1632.6	1643.7	1616.6	1612.9	1588.3	1586.3
27.5°	1577.9	1579.7	1595.5	1580.8	1590.8	1561.3	1562.3	1532.9	1529.3
30°	1540.2	1541.2	1558.6	1545.4	1551.4	1524.4	1523.8	1492.0	1489.9
32.5°	1500.8	1501.0	1519.3	1503.7	1512.9	1485.0	1481.1	1450.9	1448.1
35°	1439.7	1438.7	1456.1	1445.0	1451.0	1422.0	1416.2	1388.3	1379.3
37.5°	1370.5	1371.3	1387.7	1381.2	1385.0	1357.2	1345.9	1318.1	1314.7
40°	1322.9	1322.9	1339.3	1335.3	1338.3	1311.2	1298.3	1270.5	1265.5
42.5°	1273.7	1275.3	1290.1	1287.0	1294.0	1264.6	1248.3	1222.1	1215.5
45°	1198.9	1201.9	1214.3	1211.3	1216.3	1191.3	1172.3	1144.5	1137.4
47.5°	1128.2	1125.2	1139.1	1137.3	1139.1	1114.6	1095.6	1066.8	1061.2
50°	1074.9	1071.9	1084.2	1087.3	1088.3	1062.2	1043.2	1014.4	1010.4
52.5°	1020.0	1017.0	1030.1	1034.8	1035.0	1010.5	988.2	961.1	957.1
55°	935.6	930.6	946.8	952.9	950.9	929.9	902.8	879.0	871.0
57.5°	850.3	849.7	863.6	869.1	867.9	847.1	820.2	796.0	787.8
60°	792.1	789.1	805.4	812.6	810.6	790.5	760.3	738.6	729.6
62.5°	733.9	734.1	748.0	754.4	756.5	732.4	704.6	679.7	673.0
65°	644.6	640.5	656.8	663.1	668.1	643.1	616.9	592.1	585.1
67.5°	554.8	551.8	563.0	570.3	574.7	552.2	526.7	506.1	503.1
70°	494.9	491.9	503.1	510.4	512.4	492.3	465.2	448.8	445.8
72.5°	435.9	432.9	441.7	448.9	453.3	431.7	406.2	390.5	383.5
75°	348.4	346.4	355.6	355.7	360.7	339.7	320.7	305.3	304.3
77.5°	261.1	262.5	269.1	269.5	270.7	255.1	240.2	222.8	221.8
80°	198.8	205.8	210.1	212.1	210.1	200.0	184.5	171.1	170.1
82.5°	147.2	152.6	160.9	159.6	156.0	148.3	136.1	123.6	122.6
85°	75.8	80.8	88.1	88.0	82.0	78.0	69.7	59.4	58.4
87.5°	18.0	21.2	28.7	31.0	25.4	26.2	18.0	10.7	10.7
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	5.5	20.5	23.0	20.8	19.7
95°	5.5	5.5	8.2	26.0	26.0	42.1	57.6	56.2	56.2
97.5°	12.3	13.7	19.2	79.3	59.2	57.6	82.2	90.5	91.3
100°	17.8	19.2	30.2	129.3	87.7	74.3	87.7	107.0	111.0
102.5°	24.4	26.8	47.7	204.1	123.9	89.1	103.1	116.9	120.9
105°	37.0	41.0	100.1	342.0	189.2	118.1	130.2	137.1	138.4
107.5°	55.7	70.7	273.9	481.0	268.4	156.3	163.4	168.1	169.7
110°	75.4	107.6	475.7	564.8	327.6	185.5	180.9	193.2	190.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	126.9	221.3	698.3	633.7	386.8	220.1	197.4	217.4	219.0
115°	355.0	609.7	933.5	731.7	477.0	280.0	223.4	242.8	250.8
117.5°	891.0	1060.1	1057.4	822.3	563.7	350.5	254.7	263.9	273.1
120°	1198.0	1223.5	1119.9	883.6	619.6	401.1	281.0	277.1	285.1
122.5°	1312.1	1291.5	1167.1	937.4	676.6	453.8	315.0	291.3	298.3
125°	1410.5	1370.3	1228.2	1014.1	760.8	531.6	377.0	322.1	320.8
127.5°	1465.1	1423.0	1288.0	1080.7	838.1	612.4	447.4	365.7	353.4
130°	1491.4	1452.5	1329.6	1121.5	889.6	667.1	499.0	403.9	385.2
132.5°	1523.2	1481.1	1359.2	1163.3	939.0	718.6	550.5	449.9	428.0
135°	1554.4	1515.6	1407.8	1218.0	1008.9	794.4	625.1	525.7	497.6
137.5°	1582.4	1546.8	1452.2	1260.9	1071.9	869.0	704.0	607.3	573.0
140°	1601.0	1562.2	1470.8	1293.9	1110.3	916.0	756.7	660.1	633.3
142.5°	1607.6	1583.8	1490.6	1321.7	1153.1	960.9	809.3	709.5	684.8
145°	1627.1	1611.0	1514.7	1355.0	1203.5	1027.9	889.6	786.2	759.4
147.5°	1639.7	1615.6	1536.9	1390.9	1252.9	1088.0	962.5	863.3	838.4
150°	1640.8	1622.0	1554.4	1413.1	1285.8	1131.6	1007.5	913.8	891.0
152.5°	1649.6	1626.5	1563.2	1431.9	1309.9	1168.6	1052.5	965.3	940.3
155°	1643.5	1627.5	1576.4	1456.0	1347.5	1216.1	1115.8	1038.5	1017.1
157.5°	1643.5	1623.7	1578.0	1474.8	1383.6	1268.4	1175.0	1103.6	1087.6
160°	1632.6	1624.5	1579.1	1488.1	1402.3	1297.7	1214.5	1149.6	1128.1
162.5°	1628.2	1614.8	1581.3	1497.0	1418.7	1321.7	1248.5	1187.0	1170.9
165°	1609.3	1597.2	1568.1	1501.1	1444.8	1364.4	1298.1	1243.1	1235.1
167.5°	1587.6	1578.2	1559.1	1507.6	1462.1	1396.4	1340.6	1296.2	1285.2
170°	1572.3	1557.5	1550.3	1511.0	1470.8	1415.9	1368.0	1328.0	1315.9
172.5°	1545.9	1544.1	1538.3	1502.6	1478.5	1433.2	1393.2	1356.6	1348.8
175°	1514.7	1514.7	1518.8	1496.7	1488.6	1451.1	1422.8	1400.6	1388.6
177.5°	1478.5	1479.6	1488.4	1487.3	1488.4	1466.9	1458.8	1437.9	1435.7
180°	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8

(END OF REPORT)