

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: P522587

Luminaire Tested: **SQW-F-0U-125D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522587  
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-0U-125D-93050-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

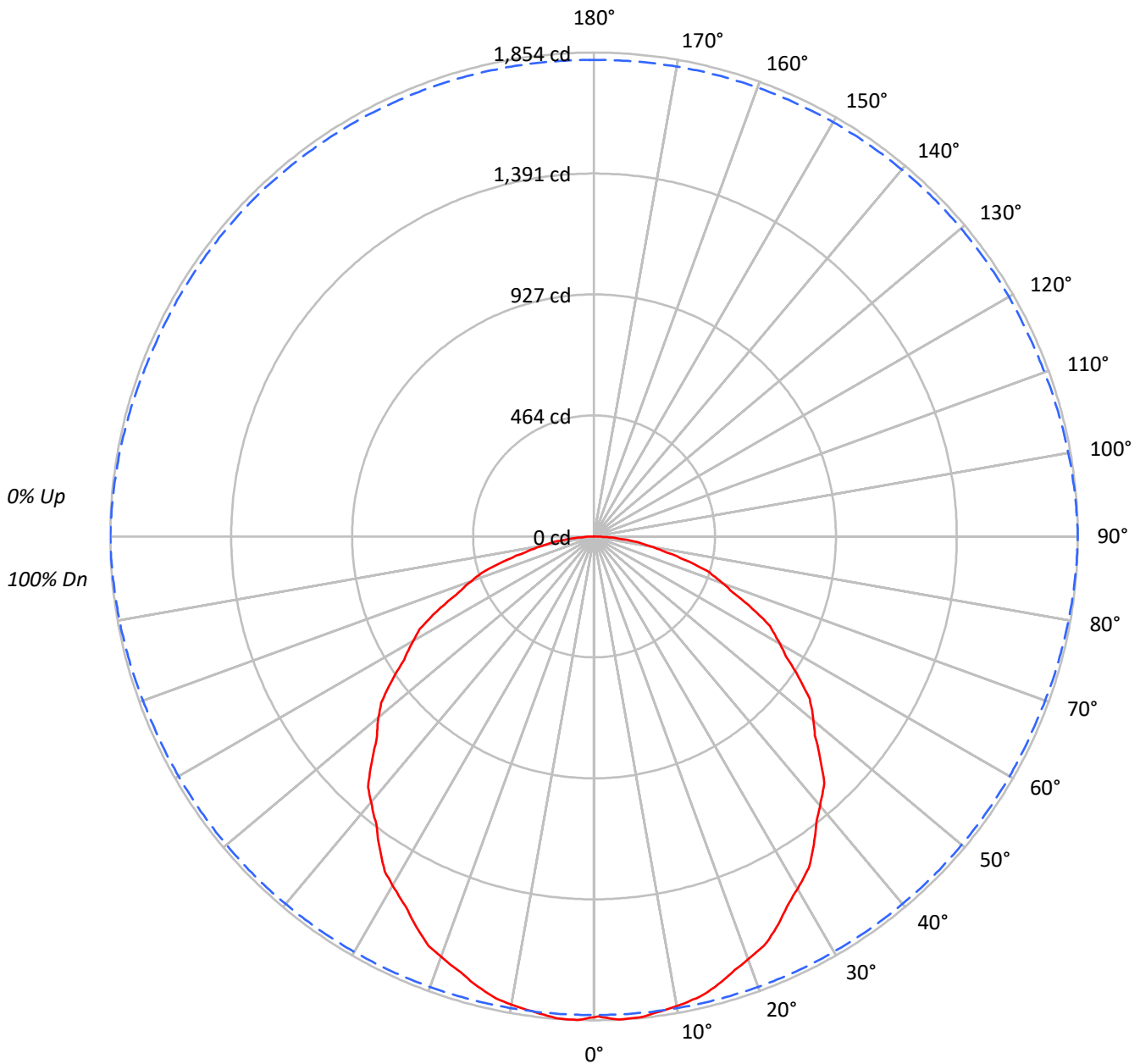
Lumens per Lamp: N/A  
Luminaire Lumens: 5138.0 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.5  
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



— 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

**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	3.4
10°-20°	497.0	9.7
20°-30°	747.4	14.5
30°-40°	892.8	17.4
40°-50°	918.2	17.9
50°-60°	826.6	16.1
60°-70°	629.6	12.3
70°-80°	358.9	7.0
80°-90°	93.5	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1418.3	27.6
0°-40°	2311.2	45.0
0°-60°	4056.0	78.9
0°-90°	5138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5138.0	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	93
90°	0	0	0	0	0	



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**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

(END OF REPORT)