

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: P522583

Luminaire Tested: **SQW-F-0U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522583  
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 (3000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

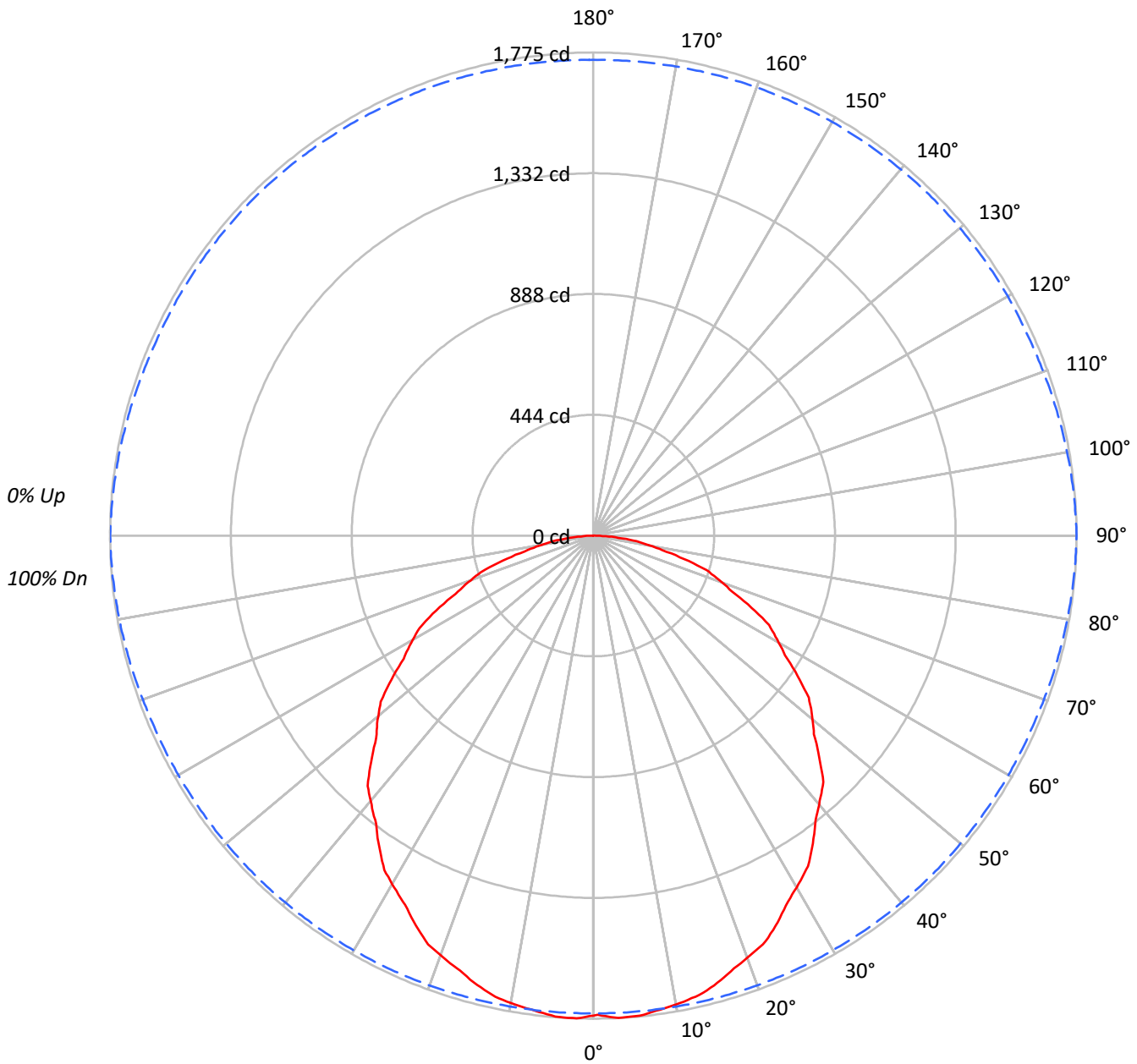
Lumens per Lamp: N/A  
Luminaire Lumens: 4919.8 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

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°	28438	28438	28438
5°	28514	28736	28259
10°	28473	28650	28071
15°	28408	28521	27898
20°	28172	28307	27548
25°	27847	28039	27059
30°	27496	27697	26599
35°	27173	27386	26032
40°	26698	27010	25541
45°	26213	26594	24868
50°	25854	26173	24302
55°	25216	25633	23477
60°	24493	25062	22559
65°	23580	24439	21406
70°	22372	23160	20148
75°	20811	21547	18178
80°	17703	18698	15146
85°	13449	14542	10356



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.6	3.4
10°-20°	475.9	9.7
20°-30°	715.7	14.5
30°-40°	854.9	17.4
40°-50°	879.3	17.9
50°-60°	791.5	16.1
60°-70°	602.9	12.3
70°-80°	343.7	7.0
80°-90°	89.5	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°	1358.1	27.6
0°-40°	2213.0	45.0
0°-60°	3883.8	78.9
0°-90°	4919.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4919.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1761	1761	1761	1761	1761	
5°	1759	1758	1773	1748	1744	167
15°	1700	1700	1706	1678	1669	479
25°	1563	1577	1574	1544	1519	720
35°	1379	1394	1389	1356	1321	861
45°	1148	1163	1165	1122	1089	887
55°	896	907	911	864	834	801
65°	617	629	640	591	560	610
75°	334	340	345	307	291	351
85°	73	84	78	67	56	89
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°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1755.8	1759.6	1761.3	1760.1	1775.4	1757.8	1758.1	1753.3	1747.9
5°	1759.3	1757.4	1758.3	1754.8	1773.0	1750.0	1747.5	1742.7	1743.6
7.5°	1747.7	1746.4	1747.1	1742.0	1759.3	1736.1	1734.2	1729.1	1728.7
10°	1736.7	1733.9	1737.7	1730.3	1747.5	1723.6	1720.1	1714.1	1712.2
12.5°	1724.2	1720.5	1725.2	1716.1	1732.6	1706.3	1705.9	1697.7	1696.5
15°	1699.5	1699.5	1699.5	1691.9	1706.3	1679.5	1677.9	1669.0	1669.0
17.5°	1664.7	1665.5	1670.6	1660.7	1672.6	1646.7	1643.3	1632.9	1631.6
20°	1639.6	1639.6	1649.4	1634.0	1647.5	1621.5	1619.0	1602.3	1603.3
22.5°	1609.8	1609.8	1621.9	1608.1	1620.0	1594.1	1590.7	1570.9	1571.9
25°	1563.1	1561.2	1576.8	1563.3	1573.9	1548.0	1544.4	1520.8	1518.9
27.5°	1510.9	1512.6	1527.7	1513.6	1523.2	1495.0	1496.0	1467.8	1464.4
30°	1474.8	1475.7	1492.4	1479.8	1485.6	1459.7	1459.1	1428.6	1426.7
32.5°	1437.1	1437.3	1454.7	1439.8	1448.7	1422.0	1418.2	1389.3	1386.6
35°	1378.6	1377.6	1394.3	1383.6	1389.4	1361.6	1356.0	1329.3	1320.7
37.5°	1312.3	1313.0	1328.8	1322.6	1326.2	1299.5	1288.7	1262.2	1258.9
40°	1266.7	1266.7	1282.4	1278.6	1281.5	1255.6	1243.2	1216.6	1211.8
42.5°	1219.6	1221.2	1235.3	1232.4	1239.1	1210.9	1195.3	1170.2	1163.9
45°	1148.0	1150.9	1162.7	1159.9	1164.7	1140.7	1122.5	1095.9	1089.1
47.5°	1080.3	1077.4	1090.7	1089.0	1090.7	1067.3	1049.1	1021.5	1016.1
50°	1029.3	1026.4	1038.1	1041.1	1042.0	1017.1	998.9	971.3	967.5
52.5°	976.7	973.8	986.3	990.8	991.0	967.6	946.3	920.3	916.5
55°	895.8	891.0	906.6	912.5	910.6	890.4	864.4	841.7	834.0
57.5°	814.2	813.6	827.0	832.2	831.1	811.1	785.4	762.2	754.4
60°	758.5	755.6	771.2	778.1	776.1	757.0	728.1	707.3	698.6
62.5°	702.7	702.9	716.3	722.4	724.3	701.3	674.7	650.8	644.5
65°	617.2	613.3	629.0	635.0	639.7	615.8	590.7	567.0	560.3
67.5°	531.2	528.3	539.1	546.0	550.3	528.8	504.3	484.7	481.8
70°	473.9	471.0	481.8	488.7	490.6	471.4	445.5	429.7	426.8
72.5°	417.4	414.5	422.9	429.9	434.1	413.4	389.0	373.9	367.2
75°	333.6	331.7	340.5	340.6	345.4	325.2	307.1	292.4	291.4
77.5°	250.0	251.4	257.7	258.1	259.2	244.3	230.0	213.3	212.3
80°	190.4	197.1	201.1	203.1	201.1	191.6	176.6	163.8	162.9
82.5°	140.9	146.1	154.1	152.8	149.3	142.0	130.3	118.3	117.4
85°	72.6	77.4	84.4	84.3	78.5	74.7	66.7	56.9	55.9
87.5°	17.3	20.3	27.5	29.7	24.3	25.1	17.3	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)