

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: P522533

Luminaire Tested: **SQW-F-050U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522533
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-050U-125D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

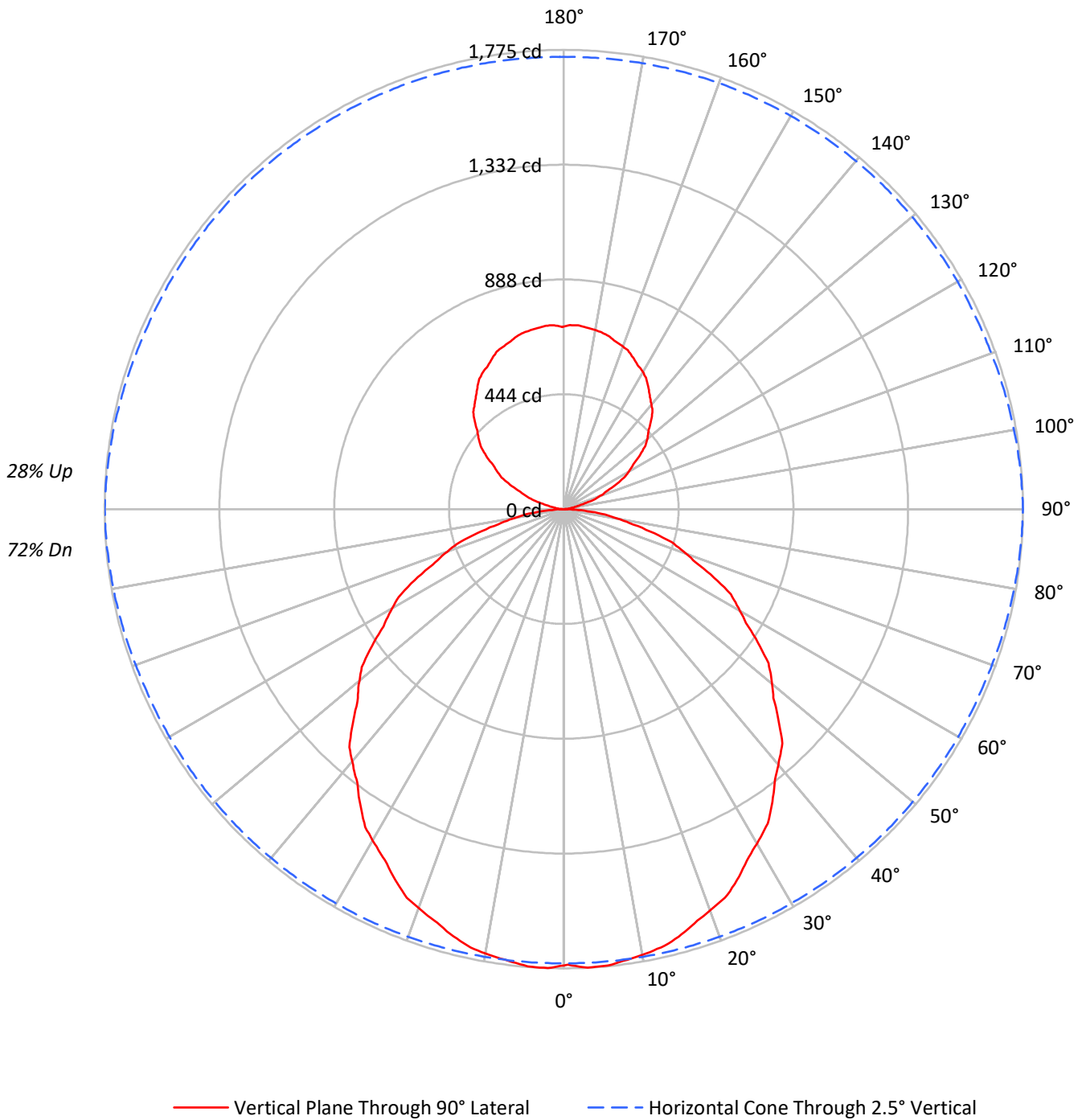
Lumens per Lamp: N/A
Luminaire Lumens: 6875.5 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 76
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





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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72
1	102	98	94	90	97	93	89	86	83	81	78	75	73	71	67	65	64	60
2	93	85	79	73	88	81	75	70	73	68	64	65	62	59	59	56	53	50
3	85	75	67	61	80	71	64	59	64	59	54	58	53	50	52	48	45	42
4	78	66	58	51	73	63	55	50	57	51	46	51	46	42	46	42	39	36
5	71	59	50	44	67	56	48	43	51	45	40	46	41	37	41	37	34	31
6	66	53	44	38	62	51	43	37	46	39	35	42	36	32	38	33	30	27
7	61	48	40	34	57	46	38	33	42	35	30	38	32	28	34	30	26	24
8	56	44	35	30	53	42	34	29	38	32	27	35	29	25	31	27	24	21
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	29	25	21	19
10	49	37	29	24	47	35	28	23	32	26	22	30	24	21	27	22	19	17

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	2.4
10°-20°	475.9	6.9
20°-30°	715.7	10.4
30°-40°	854.9	12.4
40°-50°	879.3	12.8
50°-60°	791.5	11.5
60°-70°	602.9	8.8
70°-80°	343.7	5.0
80°-90°	89.5	1.3
90°-100°	17.8	0.3
100°-110°	78.8	1.1
110°-120°	226.5	3.3
120°-130°	345.0	5.0
130°-140°	374.5	5.4
140°-150°	358.1	5.2
150°-160°	295.0	4.3
160°-170°	193.1	2.8
170°-180°	66.8	1.0
0°-30°	1358.1	19.8
0°-40°	2213.0	32.2
0°-60°	3883.8	56.5
0°-90°	4919.8	71.6
90°-120°	323.1	4.7
90°-150°	1400.7	20.4
90°-180°	1956.0	28.4
0°-180°	6875.5	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	86
90°	0	0	0	0	0	2
95°	3	4	12	28	27	4
105°	18	48	90	62	66	21
115°	170	446	228	107	120	235
125°	675	588	364	180	153	592
135°	744	673	483	299	238	574
145°	778	725	576	426	363	488
155°	786	754	645	534	486	364
165°	770	750	691	621	591	218
175°	725	726	712	681	664	70
180°	704	704	704	704	704	



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CATALOG NUMBER: SQW-F-050U-125D-93050-1D-UNV-STD-W-4 (3000K)

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
92.5°	0.5	0.5	1.0	1.6	2.6	9.8	11.0	10.0	9.4
95°	2.6	2.6	3.9	12.5	12.5	20.2	27.5	26.9	26.9
97.5°	5.9	6.5	9.2	37.9	28.3	27.6	39.3	43.3	43.7
100°	8.5	9.2	14.4	61.8	42.0	35.6	42.0	51.2	53.1
102.5°	11.7	12.8	22.8	97.6	59.3	42.6	49.3	55.9	57.8
105°	17.7	19.6	47.9	163.6	90.5	56.5	62.3	65.6	66.2
107.5°	26.6	33.8	131.0	230.1	128.4	74.8	78.2	80.4	81.2
110°	36.1	51.5	227.5	270.2	156.7	88.8	86.6	92.4	91.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	60.7	105.9	334.0	303.1	185.0	105.3	94.4	104.0	104.8
115°	169.8	291.6	446.5	350.0	228.2	133.9	106.9	116.1	120.0
117.5°	426.2	507.1	505.8	393.4	269.6	167.7	121.8	126.3	130.6
120°	573.1	585.3	535.7	422.7	296.4	191.9	134.4	132.5	136.4
122.5°	627.6	617.8	558.3	448.4	323.7	217.1	150.7	139.3	142.7
125°	674.7	655.5	587.5	485.1	363.9	254.3	180.3	154.1	153.4
127.5°	700.8	680.7	616.1	516.9	400.9	292.9	214.0	174.9	169.0
130°	713.4	694.8	636.0	536.5	425.6	319.1	238.7	193.2	184.3
132.5°	728.6	708.5	650.2	556.5	449.2	343.8	263.3	215.2	204.7
135°	743.6	725.0	673.4	582.6	482.6	380.0	299.0	251.5	238.0
137.5°	756.9	739.9	694.7	603.2	512.8	415.7	336.8	290.5	274.1
140°	765.9	747.3	703.6	619.0	531.1	438.2	361.9	315.8	302.9
142.5°	769.0	757.6	713.0	632.2	551.6	459.6	387.1	339.4	327.6
145°	778.3	770.6	724.6	648.2	575.7	491.7	425.6	376.1	363.3
147.5°	784.4	772.8	735.2	665.3	599.3	520.5	460.4	413.0	401.0
150°	784.9	775.9	743.6	676.0	615.0	541.3	481.9	437.1	426.2
152.5°	789.1	778.0	747.8	684.9	626.6	559.0	503.4	461.7	449.8
155°	786.2	778.5	754.1	696.5	644.6	581.7	533.7	496.8	486.5
157.5°	786.2	776.7	754.8	705.5	661.9	606.7	562.1	527.9	520.2
160°	780.9	777.1	755.4	711.8	670.8	620.8	581.0	549.9	539.6
162.5°	778.8	772.4	756.4	716.1	678.7	632.2	597.2	567.8	560.1
165°	769.8	764.0	750.1	718.0	691.1	652.6	621.0	594.6	590.8
167.5°	759.4	754.9	745.8	721.2	699.4	668.0	641.3	620.0	614.8
170°	752.1	745.0	741.6	722.8	703.6	677.3	654.4	635.2	629.5
172.5°	739.5	738.6	735.8	718.8	707.2	685.6	666.5	648.9	645.2
175°	724.6	724.6	726.5	715.9	712.1	694.1	680.6	670.0	664.2
177.5°	707.2	707.8	712.0	711.4	712.0	701.7	697.8	687.8	686.8
180°	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6

(END OF REPORT)