

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: P522367

Luminaire Tested: **SQW-F-050U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522367  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-050U-125D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

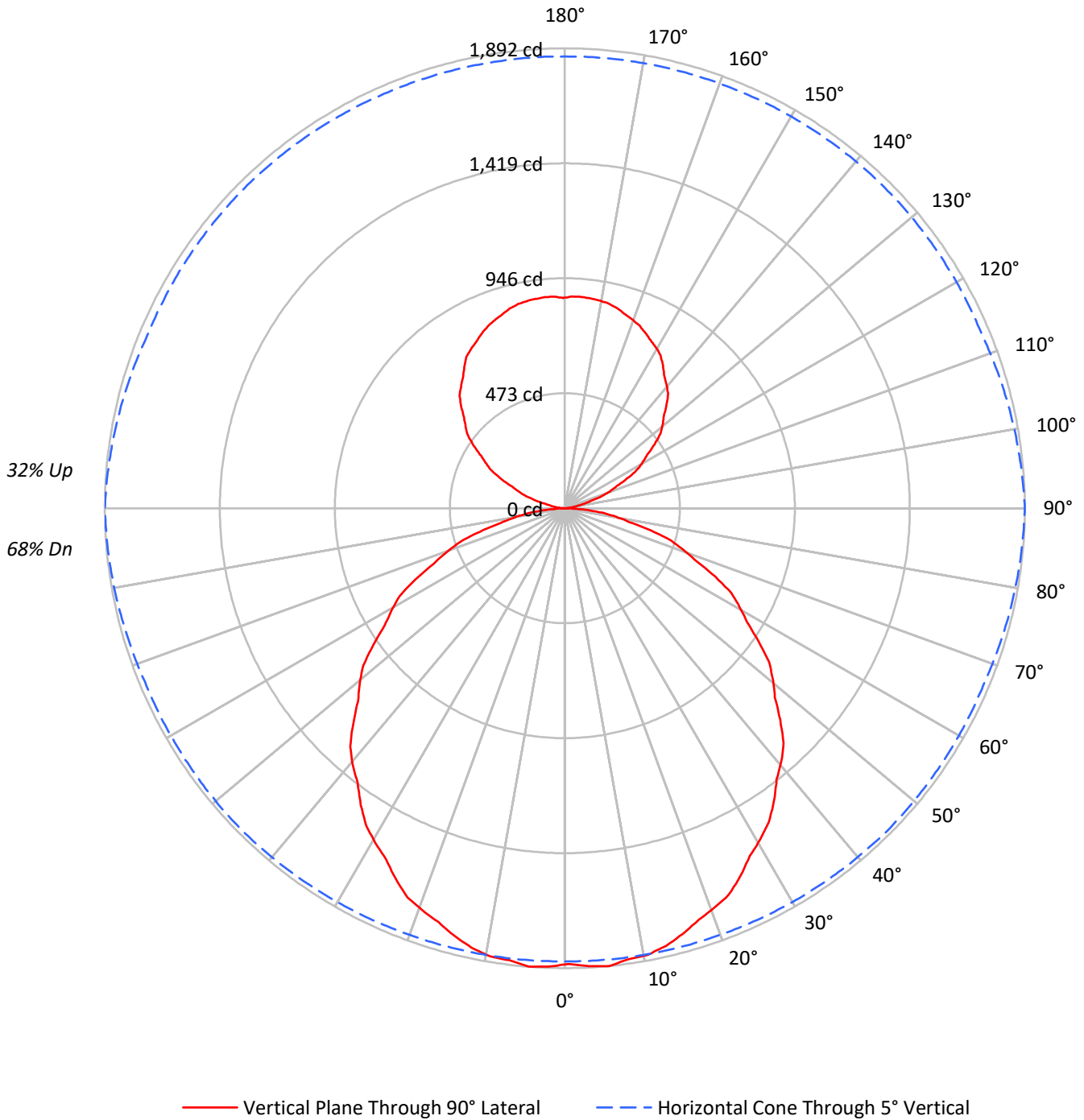
Lumens per Lamp: N/A  
Luminaire Lumens: 7644.7 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 76.5  
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





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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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	68				
1	102	97	93	89	96	92	88	85	82	79	77	73	71	69	64	63	61	57				
2	93	85	78	73	87	80	74	70	72	67	63	64	60	57	56	54	51	48				
3	84	74	67	61	79	70	64	58	63	58	53	56	52	48	50	46	44	40				
4	77	66	57	51	72	62	55	49	56	50	45	50	45	41	44	41	37	34				
5	71	59	50	44	66	56	48	42	50	44	39	45	40	36	40	36	32	30				
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	29	26				
7	60	48	39	33	57	45	38	32	41	35	30	37	32	28	33	29	25	23				
8	56	43	35	30	53	41	34	29	37	31	27	34	28	25	30	26	23	20				
9	52	40	32	26	49	38	31	26	34	28	24	31	26	22	28	24	20	18				
10	49	36	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	30265	30265	30265
5°	30208	30658	30120
10°	30258	30627	29872
15°	30223	30365	29882
20°	29926	30146	29244
25°	29462	29863	28853
30°	29276	29496	28476
35°	28819	29199	27784
40°	28424	28896	27453
45°	27857	28346	26756
50°	27228	27846	26206
55°	26534	27167	25267
60°	25701	26666	24454
65°	24554	25987	23037
70°	23207	24576	21640
75°	21248	22720	19513
80°	18326	19721	16532
85°	13097	15283	11504



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.4	2.3
10°-20°	506.7	6.6
20°-30°	762.3	10.0
30°-40°	910.6	11.9
40°-50°	935.7	12.2
50°-60°	841.1	11.0
60°-70°	639.4	8.4
70°-80°	364.3	4.8
80°-90°	94.8	1.2
90°-100°	22.7	0.3
100°-110°	98.4	1.3
110°-120°	280.6	3.7
120°-130°	426.7	5.6
130°-140°	461.5	6.0
140°-150°	441.0	5.8
150°-160°	362.7	4.7
160°-170°	237.0	3.1
170°-180°	82.0	1.1
0°-30°	1446.3	18.9
0°-40°	2356.9	30.8
0°-60°	4133.7	54.1
0°-90°	5232.1	68.4
90°-120°	401.7	5.3
90°-150°	1730.9	22.6
90°-180°	2413.0	31.6
0°-180°	7644.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1874	1874	1874	1874	1874	
5°	1864	1876	1892	1863	1858	177
15°	1808	1802	1817	1796	1788	509
25°	1654	1682	1676	1655	1620	765
35°	1462	1484	1481	1448	1410	914
45°	1220	1234	1241	1202	1172	938
55°	943	962	965	922	898	841
65°	643	658	680	635	603	635
75°	341	352	364	334	313	360
85°	71	85	82	74	62	87
90°	0	0	0	0	0	2
95°	4	5	15	37	34	5
105°	23	58	114	78	84	26
115°	207	550	284	135	153	285
125°	825	726	454	223	192	725
135°	913	826	597	371	294	704
145°	951	890	712	527	449	596
155°	962	920	795	660	599	445
165°	940	919	851	763	728	267
175°	885	887	872	840	818	86
180°	865	865	865	865	865	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5
2.5°	1871.9	1870.2	1877.9	1869.7	1885.6	1877.2	1871.9	1875.0	1858.2
5°	1863.8	1868.0	1875.6	1868.6	1891.6	1858.1	1862.7	1859.5	1858.4
7.5°	1857.6	1860.9	1858.8	1854.6	1873.2	1851.8	1849.8	1842.9	1840.8
10°	1845.6	1849.7	1843.4	1846.1	1868.1	1836.6	1837.0	1819.9	1822.0
12.5°	1823.3	1832.5	1830.6	1821.3	1847.5	1821.1	1826.7	1814.6	1810.0
15°	1808.1	1798.6	1801.6	1804.1	1816.6	1787.3	1796.3	1781.4	1787.7
17.5°	1775.9	1770.1	1772.1	1765.8	1780.2	1750.1	1754.9	1743.1	1738.9
20°	1741.7	1741.7	1743.8	1740.9	1754.5	1725.2	1726.7	1706.2	1702.0
22.5°	1716.0	1711.8	1723.2	1714.3	1726.2	1697.7	1697.5	1672.2	1681.5
25°	1653.8	1659.1	1681.7	1661.7	1676.3	1640.7	1654.9	1626.9	1619.6
27.5°	1606.3	1607.9	1620.4	1609.5	1619.8	1592.3	1605.0	1569.6	1559.1
30°	1570.3	1566.1	1589.6	1572.6	1582.1	1562.2	1563.9	1525.3	1527.4
32.5°	1520.6	1521.4	1547.6	1535.7	1540.1	1513.5	1518.4	1490.8	1479.4
35°	1462.1	1462.1	1483.5	1470.9	1481.4	1448.9	1448.2	1419.0	1409.6
37.5°	1394.0	1387.3	1413.3	1406.6	1414.8	1384.6	1374.0	1346.5	1341.1
40°	1348.6	1344.4	1363.6	1359.5	1371.0	1341.7	1326.1	1300.4	1302.5
42.5°	1290.3	1294.5	1310.4	1312.3	1318.8	1286.9	1277.2	1248.1	1250.2
45°	1220.0	1217.9	1233.9	1233.1	1241.4	1214.2	1201.8	1167.6	1171.8
47.5°	1132.8	1135.8	1153.0	1151.1	1162.6	1138.3	1118.5	1095.6	1090.4
50°	1084.0	1086.1	1099.0	1101.3	1108.6	1083.5	1067.9	1044.3	1043.3
52.5°	1024.9	1022.8	1041.6	1046.4	1052.1	1033.6	1013.9	986.9	983.3
55°	942.6	943.6	961.9	969.3	965.1	952.5	922.2	895.5	897.6
57.5°	852.4	860.2	868.7	881.6	882.4	862.1	842.3	816.3	812.1
60°	795.9	796.9	813.0	825.8	825.8	803.8	779.8	757.3	757.3
62.5°	731.6	736.8	750.4	762.6	768.4	750.6	720.7	697.3	695.6
65°	642.7	643.7	657.7	673.9	680.2	656.1	635.2	608.3	603.0
67.5°	550.8	555.2	566.4	579.2	586.6	560.6	538.6	517.6	519.3
70°	491.6	492.7	501.3	517.4	520.6	499.6	477.7	458.4	458.4
72.5°	427.4	434.3	441.3	455.7	458.0	439.6	422.0	403.5	399.3
75°	340.6	345.9	352.4	361.0	364.2	348.5	334.2	318.0	312.8
77.5°	254.5	259.5	270.6	271.8	271.2	260.3	249.1	237.0	231.8
80°	197.1	201.3	213.2	215.2	212.1	203.7	191.7	183.0	177.8
82.5°	143.1	150.6	159.2	161.2	157.2	153.1	142.9	132.5	128.1
85°	70.7	74.9	84.6	88.8	82.5	80.4	73.9	65.3	62.1
87.5°	13.7	17.1	25.7	31.5	24.0	28.2	21.4	15.4	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.2	1.2	1.2	2.4	3.5	12.7	14.1	12.3	12.3
95°	3.7	3.7	5.1	16.1	15.4	26.2	36.7	34.5	34.5
97.5°	7.5	8.2	11.7	47.7	36.0	35.0	49.6	55.2	56.2
100°	11.0	11.7	17.6	78.0	53.6	45.7	54.3	64.6	66.8
102.5°	15.1	16.4	28.2	122.7	75.3	53.6	61.9	71.1	73.8
105°	22.8	24.9	58.0	205.6	113.8	70.0	77.8	81.5	83.7
107.5°	33.8	42.5	156.2	288.9	161.5	92.4	100.7	100.2	102.0
110°	45.5	63.4	270.1	334.5	196.7	109.9	110.1	115.9	113.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	75.5	126.1	402.8	378.3	231.9	130.7	118.9	131.8	132.6
115°	207.0	355.5	550.5	439.8	284.0	167.8	135.0	147.6	152.7
117.5°	513.2	618.5	626.1	494.3	336.0	209.1	153.5	159.1	165.7
120°	695.8	717.3	661.3	527.8	370.6	238.6	168.8	166.8	173.9
122.5°	767.4	759.7	690.1	559.0	404.7	269.8	187.6	176.1	181.0
125°	825.0	804.9	725.9	602.2	454.3	316.5	223.1	191.6	191.6
127.5°	859.3	835.9	758.8	640.5	499.1	363.7	265.8	216.7	209.9
130°	879.3	854.2	778.7	667.0	528.4	394.2	295.8	238.3	227.5
132.5°	894.5	871.7	797.5	687.7	557.2	424.2	325.7	265.1	247.5
135°	913.0	893.7	826.4	719.4	597.4	469.0	370.6	311.5	293.6
137.5°	924.9	909.9	852.4	745.5	634.7	513.4	416.0	356.6	340.4
140°	931.4	919.2	865.3	761.0	657.6	542.1	447.7	387.2	372.1
142.5°	937.9	927.9	874.7	778.1	679.9	570.7	478.8	418.3	402.1
145°	951.2	939.7	890.3	798.8	711.9	610.8	527.0	463.5	449.2
147.5°	960.6	946.8	903.1	821.0	742.2	647.0	571.2	509.9	495.7
150°	963.0	948.6	910.1	832.9	760.4	669.2	598.2	539.9	526.2
152.5°	961.2	950.3	915.4	843.0	775.6	690.8	622.8	568.7	556.2
155°	962.2	952.2	919.6	856.6	794.9	721.0	659.8	611.8	598.9
157.5°	957.8	951.2	922.6	867.0	812.6	747.9	693.7	653.4	640.3
160°	957.8	947.8	922.6	873.1	825.0	765.4	714.9	678.7	667.9
162.5°	951.4	942.5	922.0	877.3	836.7	781.7	734.8	701.0	693.1
165°	939.5	932.3	918.9	883.0	851.4	804.0	763.3	733.1	728.1
167.5°	930.2	920.3	913.0	882.8	861.4	820.0	787.4	762.4	759.5
170°	919.6	913.2	907.2	881.1	866.1	831.6	804.4	779.4	776.5
172.5°	906.1	902.6	899.5	880.1	869.0	841.4	819.1	796.4	791.2
175°	885.2	888.0	887.4	877.7	871.9	854.0	840.4	824.1	817.6
177.5°	872.2	871.1	874.0	872.2	871.6	860.7	857.0	845.9	849.3
180°	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6

(END OF REPORT)