

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: P522366

Luminaire Tested: **SQW-F-050U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522366  
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 (5700K)  
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 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

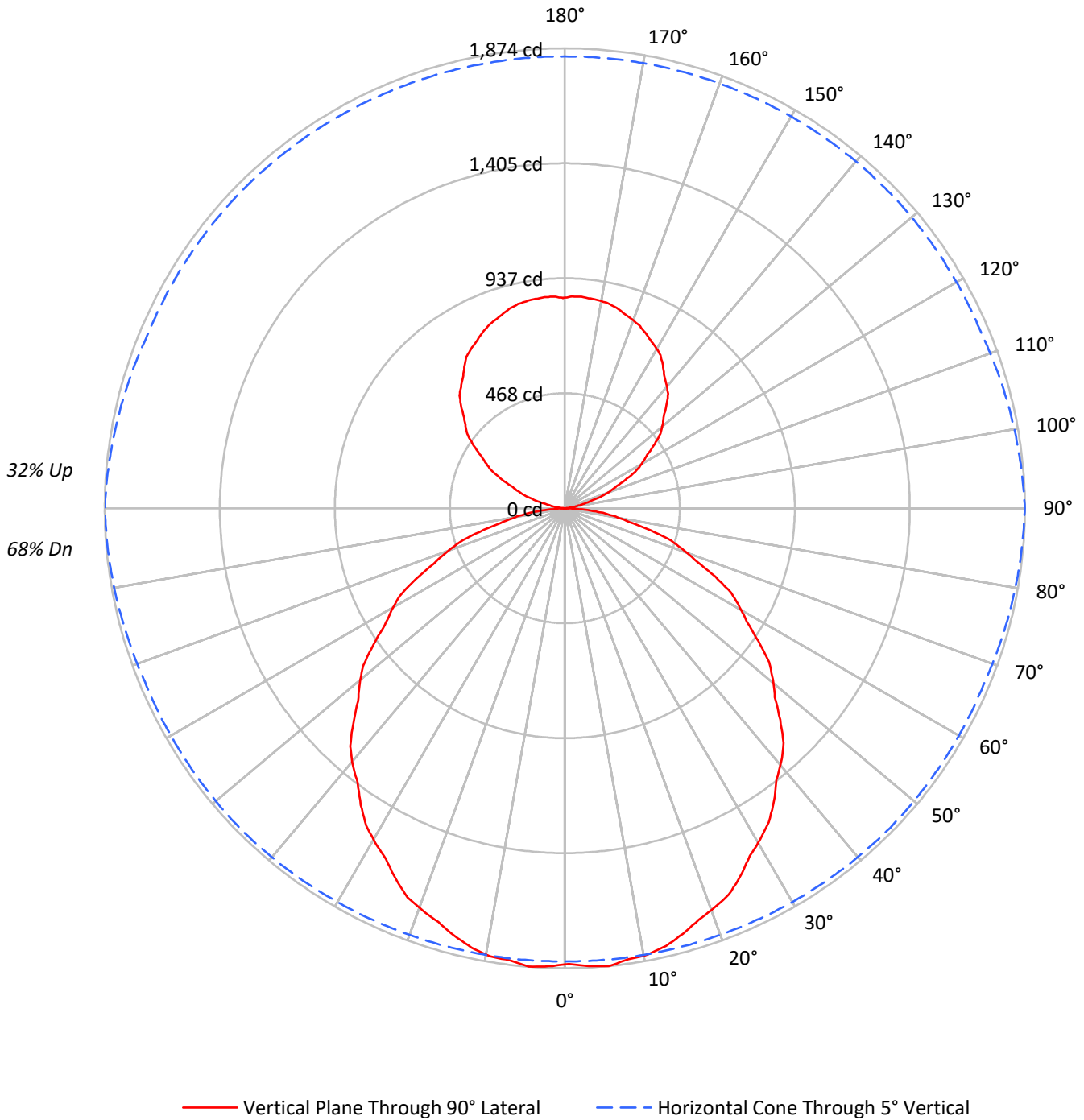
Lumens per Lamp: N/A  
Luminaire Lumens: 7572.9 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 76.7  
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°	29981	29981	29981
5°	29924	30371	29838
10°	29973	30339	29591
15°	29939	30081	29601
20°	29644	29862	28969
25°	29186	29584	28581
30°	29000	29218	28210
35°	28549	28925	27524
40°	28157	28627	27196
45°	27597	28081	26505
50°	26972	27585	25960
55°	26283	26911	25030
60°	25459	26418	24225
65°	24321	25742	22823
70°	22990	24345	21437
75°	21048	22508	19326
80°	18150	19535	16374
85°	12968	15135	11393



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.7	2.3
10°-20°	501.9	6.6
20°-30°	755.1	10.0
30°-40°	902.0	11.9
40°-50°	926.9	12.2
50°-60°	833.2	11.0
60°-70°	633.3	8.4
70°-80°	360.9	4.8
80°-90°	93.9	1.2
90°-100°	22.5	0.3
100°-110°	97.5	1.3
110°-120°	278.0	3.7
120°-130°	422.7	5.6
130°-140°	457.2	6.0
140°-150°	436.8	5.8
150°-160°	359.3	4.7
160°-170°	234.8	3.1
170°-180°	81.2	1.1
0°-30°	1432.7	18.9
0°-40°	2334.8	30.8
0°-60°	4094.8	54.1
0°-90°	5183.0	68.4
90°-120°	398.0	5.3
90°-150°	1714.7	22.6
90°-180°	2390.0	31.6
0°-180°	7572.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1857	1857	1857	1857	1857	
5°	1846	1858	1874	1845	1841	176
15°	1791	1785	1800	1779	1771	504
25°	1638	1666	1661	1639	1604	758
35°	1448	1470	1468	1435	1396	905
45°	1209	1222	1230	1190	1161	929
55°	934	953	956	914	889	833
65°	637	652	674	629	597	629
75°	337	349	361	331	310	357
85°	70	84	82	73	62	86
90°	0	0	0	0	0	2
95°	4	5	15	36	34	5
105°	22	57	113	77	83	26
115°	205	545	281	134	151	282
125°	817	719	450	221	190	718
135°	904	819	592	367	291	697
145°	942	882	705	522	445	590
155°	953	911	787	654	593	440
165°	931	910	843	756	721	265
175°	877	879	864	832	810	85
180°	856	856	856	856	856	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1856.9	1856.9	1856.9	1856.9	1856.9	1856.9	1856.9	1856.9	1856.9
2.5°	1854.3	1852.7	1860.3	1852.1	1867.9	1859.6	1854.3	1857.3	1840.7
5°	1846.3	1850.4	1857.9	1851.0	1873.9	1840.7	1845.2	1842.0	1841.0
7.5°	1840.1	1843.4	1841.4	1837.1	1855.6	1834.4	1832.5	1825.6	1823.6
10°	1828.2	1832.4	1826.1	1828.7	1850.5	1819.4	1819.7	1802.8	1804.9
12.5°	1806.2	1815.3	1813.4	1804.2	1830.1	1804.0	1809.5	1797.6	1793.0
15°	1791.1	1781.7	1784.7	1787.1	1799.6	1770.5	1779.4	1764.7	1770.9
17.5°	1759.3	1753.4	1755.4	1749.2	1763.5	1733.6	1738.5	1726.7	1722.5
20°	1725.3	1725.3	1727.4	1724.5	1738.0	1709.0	1710.4	1690.2	1686.0
22.5°	1699.8	1695.7	1707.1	1698.2	1710.0	1681.8	1681.6	1656.5	1665.7
25°	1638.3	1643.5	1665.9	1646.1	1660.6	1625.3	1639.4	1611.6	1604.3
27.5°	1591.2	1592.8	1605.2	1594.4	1604.6	1577.4	1589.9	1554.9	1544.5
30°	1555.5	1551.4	1574.6	1557.9	1567.2	1547.5	1549.2	1511.0	1513.1
32.5°	1506.3	1507.1	1533.0	1521.2	1525.6	1499.3	1504.2	1476.8	1465.6
35°	1448.4	1448.4	1469.6	1457.1	1467.5	1435.3	1434.6	1405.7	1396.4
37.5°	1380.9	1374.2	1400.0	1393.4	1401.5	1371.6	1361.1	1333.9	1328.5
40°	1335.9	1331.7	1350.7	1346.8	1358.2	1329.1	1313.6	1288.2	1290.3
42.5°	1278.2	1282.3	1298.1	1300.0	1306.4	1274.9	1265.2	1236.4	1238.5
45°	1208.6	1206.5	1222.4	1221.5	1229.8	1202.8	1190.5	1156.7	1160.8
47.5°	1122.2	1125.1	1142.1	1140.3	1151.7	1127.6	1108.0	1085.4	1080.2
50°	1073.8	1075.9	1088.7	1090.9	1098.2	1073.3	1057.9	1034.5	1033.5
52.5°	1015.2	1013.2	1031.8	1036.6	1042.2	1023.9	1004.4	977.6	974.1
55°	933.7	934.8	952.8	960.2	956.0	943.6	913.6	887.1	889.2
57.5°	844.4	852.1	860.5	873.3	874.1	854.0	834.4	808.7	804.5
60°	788.4	789.4	805.4	818.1	818.1	796.3	772.5	750.2	750.2
62.5°	724.7	729.9	743.4	755.4	761.2	743.6	713.9	690.7	689.1
65°	636.6	637.7	651.5	667.6	673.8	649.9	629.2	602.6	597.4
67.5°	545.6	550.0	561.1	573.8	581.0	555.3	533.5	512.7	514.4
70°	487.0	488.1	496.6	512.6	515.7	494.9	473.2	454.1	454.1
72.5°	423.4	430.2	437.2	451.4	453.7	435.5	418.1	399.7	395.6
75°	337.4	342.6	349.1	357.7	360.8	345.2	331.1	315.0	309.8
77.5°	252.1	257.1	268.0	269.3	268.7	257.9	246.8	234.8	229.6
80°	195.2	199.4	211.2	213.2	210.1	201.8	189.9	181.3	176.1
82.5°	141.8	149.2	157.7	159.7	155.8	151.6	141.5	131.3	126.9
85°	70.0	74.2	83.8	87.9	81.7	79.6	73.2	64.7	61.5
87.5°	13.6	16.9	25.5	31.2	23.8	27.9	21.2	15.2	13.6
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	12.6	14.0	12.2	12.2
95°	3.6	3.6	5.1	16.0	15.3	25.9	36.4	34.2	34.2
97.5°	7.4	8.1	11.6	47.3	35.6	34.6	49.1	54.7	55.7
100°	10.9	11.6	17.4	77.2	53.1	45.3	53.8	64.0	66.2
102.5°	15.0	16.3	27.9	121.5	74.6	53.1	61.4	70.4	73.1
105°	22.5	24.7	57.4	203.7	112.7	69.3	77.1	80.8	82.9
107.5°	33.4	42.1	154.7	286.2	160.0	91.6	99.8	99.2	101.1
110°	45.1	62.9	267.6	331.3	194.9	108.8	109.1	114.8	112.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	74.7	124.9	399.0	374.8	229.8	129.5	117.8	130.6	131.3
115°	205.0	352.2	545.3	435.6	281.4	166.2	133.8	146.3	151.2
117.5°	508.4	612.7	620.2	489.7	332.8	207.2	152.1	157.6	164.2
120°	689.3	710.6	655.1	522.9	367.2	236.4	167.2	165.2	172.3
122.5°	760.2	752.5	683.6	553.7	400.9	267.3	185.8	174.5	179.3
125°	817.2	797.3	719.1	596.5	450.1	313.6	221.0	189.8	189.8
127.5°	851.2	828.1	751.6	634.5	494.4	360.3	263.3	214.6	207.9
130°	871.0	846.1	771.4	660.7	523.5	390.5	293.0	236.1	225.4
132.5°	886.1	863.5	790.0	681.2	552.0	420.2	322.7	262.7	245.2
135°	904.5	885.3	818.7	712.7	591.8	464.6	367.2	308.6	290.8
137.5°	916.2	901.3	844.4	738.5	628.8	508.6	412.1	353.3	337.2
140°	922.6	910.6	857.2	753.8	651.4	537.0	443.5	383.6	368.6
142.5°	929.0	919.2	866.5	770.8	673.6	565.4	474.3	414.4	398.3
145°	942.3	930.9	881.9	791.3	705.3	605.0	522.0	459.2	445.0
147.5°	951.6	937.9	894.6	813.3	735.2	640.9	565.8	505.1	491.1
150°	953.9	939.7	901.6	825.0	753.2	663.0	592.6	534.8	521.3
152.5°	952.2	941.4	906.8	835.0	768.4	684.3	617.0	563.3	551.0
155°	953.2	943.2	911.0	848.5	787.4	714.2	653.6	606.1	593.3
157.5°	948.8	942.3	913.9	858.9	805.0	740.9	687.2	647.2	634.3
160°	948.8	938.9	913.9	864.9	817.2	758.2	708.2	672.3	661.6
162.5°	942.4	933.6	913.3	869.1	828.9	774.4	727.9	694.5	686.6
165°	930.6	923.5	910.3	874.7	843.4	796.5	756.1	726.2	721.2
167.5°	921.5	911.7	904.5	874.5	853.3	812.3	780.0	755.2	752.4
170°	911.0	904.6	898.7	872.9	857.9	823.8	796.9	772.1	769.2
172.5°	897.6	894.1	891.1	871.8	860.8	833.5	811.4	788.9	783.8
175°	876.8	879.7	879.0	869.4	863.8	846.0	832.5	816.3	809.9
177.5°	864.0	862.9	865.8	864.0	863.5	852.7	848.9	837.9	841.4
180°	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5

(END OF REPORT)