

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: P522363

Luminaire Tested: **SQW-F-050U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522363  
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 (4000K)  
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 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

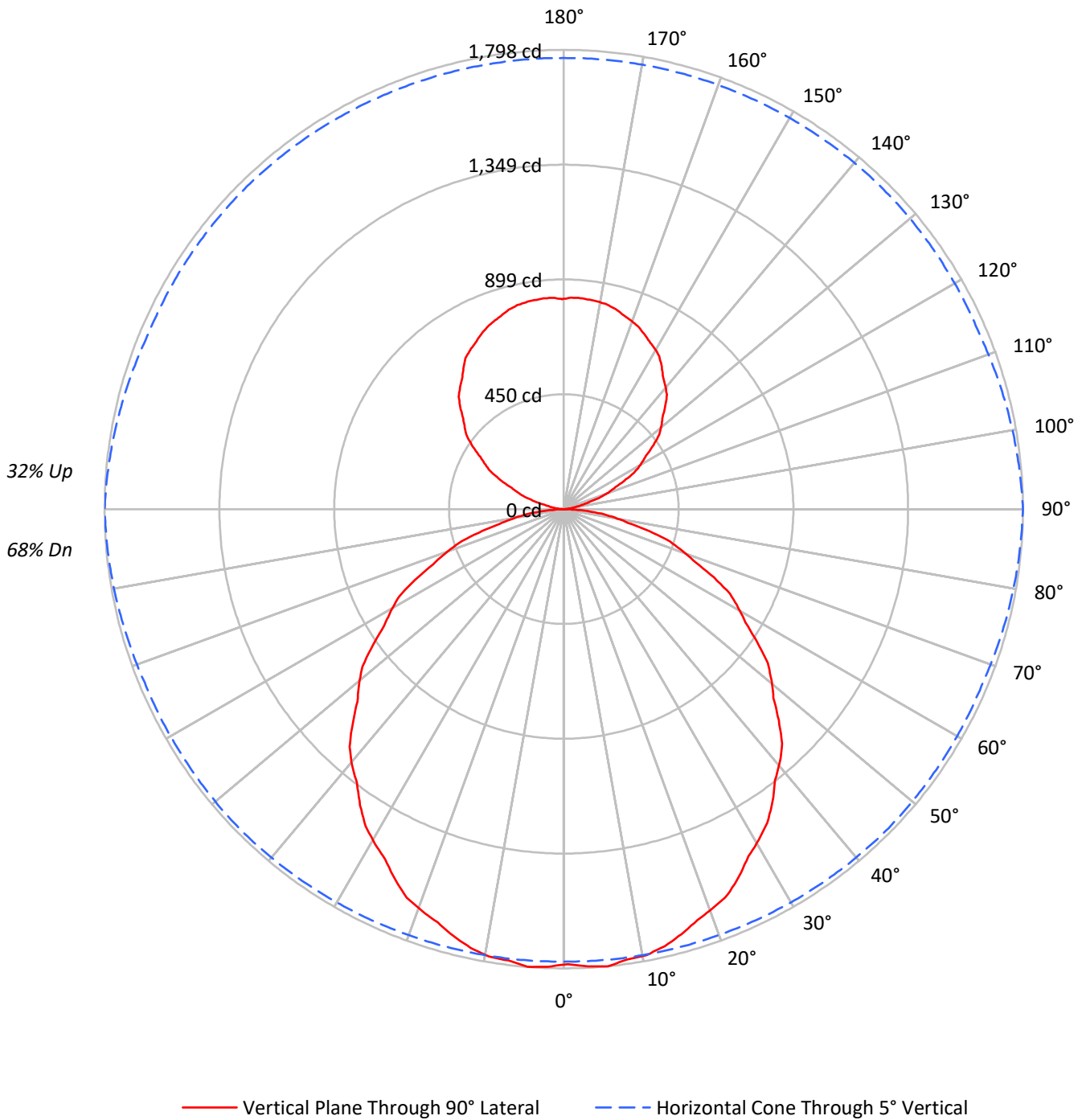
Lumens per Lamp: N/A  
Luminaire Lumens: 7267.6 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 77  
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°	28772	28772	28772
5°	28716	29146	28634
10°	28765	29116	28398
15°	28732	28868	28408
20°	28448	28660	27802
25°	28009	28390	27430
30°	27831	28040	27072
35°	27397	27758	26414
40°	27021	27472	26097
45°	26482	26948	25437
50°	25885	26472	24912
55°	25225	25827	24020
60°	24432	25352	23247
65°	23343	24703	21903
70°	22065	23363	20573
75°	20200	21597	18546
80°	17424	18745	15714
85°	12449	14524	10948



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.6	2.3
10°-20°	481.7	6.6
20°-30°	724.7	10.0
30°-40°	865.6	11.9
40°-50°	889.5	12.2
50°-60°	799.6	11.0
60°-70°	607.8	8.4
70°-80°	346.3	4.8
80°-90°	90.1	1.2
90°-100°	21.6	0.3
100°-110°	93.6	1.3
110°-120°	266.8	3.7
120°-130°	405.6	5.6
130°-140°	438.7	6.0
140°-150°	419.2	5.8
150°-160°	344.8	4.7
160°-170°	225.3	3.1
170°-180°	77.9	1.1
0°-30°	1375.0	18.9
0°-40°	2240.6	30.8
0°-60°	3929.7	54.1
0°-90°	4974.0	68.4
90°-120°	381.9	5.3
90°-150°	1645.5	22.6
90°-180°	2294.0	31.6
0°-180°	7267.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1782	1782	1782	1782	1782	
5°	1772	1783	1798	1771	1767	169
15°	1719	1713	1727	1708	1700	484
25°	1572	1599	1594	1573	1540	727
35°	1390	1410	1408	1377	1340	869
45°	1160	1173	1180	1142	1114	892
55°	896	914	918	877	853	799
65°	611	625	647	604	573	604
75°	324	335	346	318	297	343
85°	67	80	78	70	59	82
90°	0	0	0	0	0	2
95°	4	5	15	35	33	4
105°	22	55	108	74	80	25
115°	197	523	270	128	145	271
125°	784	690	432	212	182	689
135°	868	786	568	352	279	669
145°	904	846	677	501	427	566
155°	915	874	756	627	569	423
165°	893	874	809	726	692	254
175°	842	844	829	799	777	82
180°	822	822	822	822	822	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0
2.5°	1779.6	1778.0	1785.3	1777.5	1792.6	1784.6	1779.6	1782.5	1766.5
5°	1771.8	1775.8	1783.0	1776.4	1798.3	1766.4	1770.8	1767.7	1766.7
7.5°	1765.9	1769.1	1767.1	1763.1	1780.8	1760.5	1758.6	1752.0	1750.0
10°	1754.5	1758.5	1752.5	1755.0	1775.9	1746.0	1746.4	1730.1	1732.1
12.5°	1733.3	1742.1	1740.3	1731.5	1756.4	1731.3	1736.6	1725.1	1720.7
15°	1718.9	1709.9	1712.8	1715.1	1727.0	1699.1	1707.7	1693.6	1699.5
17.5°	1688.3	1682.8	1684.7	1678.7	1692.4	1663.7	1668.4	1657.1	1653.1
20°	1655.7	1655.7	1657.8	1655.0	1668.0	1640.1	1641.5	1622.1	1618.1
22.5°	1631.3	1627.3	1638.2	1629.7	1641.1	1614.0	1613.8	1589.8	1598.5
25°	1572.2	1577.2	1598.7	1579.7	1593.6	1559.8	1573.3	1546.6	1539.7
27.5°	1527.0	1528.6	1540.5	1530.1	1539.9	1513.8	1525.8	1492.2	1482.2
30°	1492.8	1488.8	1511.1	1495.1	1504.0	1485.1	1486.7	1450.1	1452.1
32.5°	1445.6	1446.4	1471.2	1459.9	1464.1	1438.8	1443.5	1417.2	1406.5
35°	1390.0	1390.0	1410.3	1398.3	1408.3	1377.4	1376.7	1349.0	1340.1
37.5°	1325.2	1318.8	1343.5	1337.2	1345.0	1316.3	1306.3	1280.1	1274.9
40°	1282.0	1278.0	1296.3	1292.5	1303.4	1275.5	1260.6	1236.3	1238.2
42.5°	1226.6	1230.6	1245.8	1247.6	1253.7	1223.5	1214.2	1186.6	1188.6
45°	1159.8	1157.8	1173.1	1172.2	1180.2	1154.3	1142.5	1110.0	1114.0
47.5°	1076.9	1079.7	1096.1	1094.3	1105.3	1082.2	1063.3	1041.6	1036.6
50°	1030.5	1032.5	1044.8	1047.0	1053.9	1030.0	1015.2	992.8	991.8
52.5°	974.3	972.3	990.2	994.8	1000.2	982.6	963.9	938.2	934.8
55°	896.1	897.1	914.4	921.5	917.5	905.5	876.8	851.3	853.3
57.5°	810.4	817.7	825.8	838.1	838.9	819.6	800.8	776.1	772.1
60°	756.6	757.6	772.9	785.1	785.1	764.2	741.3	719.9	719.9
62.5°	695.5	700.5	713.4	724.9	730.5	713.6	685.1	662.9	661.3
65°	611.0	612.0	625.2	640.6	646.6	623.7	603.8	578.3	573.3
67.5°	523.6	527.8	538.5	550.6	557.6	532.9	512.0	492.1	493.7
70°	467.4	468.4	476.6	491.9	494.9	475.0	454.2	435.8	435.8
72.5°	406.3	412.9	419.5	433.2	435.4	417.9	401.2	383.6	379.6
75°	323.8	328.8	335.0	343.2	346.2	331.3	317.7	302.3	297.3
77.5°	241.9	246.7	257.2	258.4	257.8	247.5	236.9	225.3	220.4
80°	187.4	191.3	202.6	204.6	201.6	193.7	182.3	174.0	169.0
82.5°	136.0	143.2	151.3	153.3	149.5	145.5	135.8	126.0	121.8
85°	67.2	71.2	80.4	84.4	78.4	76.4	70.3	62.0	59.1
87.5°	13.0	16.2	24.4	30.0	22.8	26.8	20.4	14.6	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	1.1	2.3	3.3	12.1	13.4	11.7	11.7
95°	3.5	3.5	4.9	15.3	14.7	24.9	34.9	32.8	32.8
97.5°	7.1	7.8	11.2	45.4	34.2	33.2	47.2	52.5	53.4
100°	10.5	11.1	16.7	74.1	50.9	43.4	51.6	61.4	63.5
102.5°	14.4	15.6	26.8	116.6	71.6	51.0	58.9	67.6	70.2
105°	21.6	23.7	55.1	195.5	108.2	66.5	74.0	77.5	79.5
107.5°	32.1	40.4	148.5	274.7	153.5	87.9	95.7	95.2	97.0
110°	43.3	60.3	256.8	318.0	187.0	104.4	104.7	110.2	108.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	71.7	119.9	382.9	359.7	220.5	124.3	113.0	125.3	126.0
115°	196.8	338.0	523.3	418.1	270.0	159.5	128.4	140.4	145.1
117.5°	487.9	588.0	595.2	469.9	319.4	198.8	146.0	151.3	157.6
120°	661.5	681.9	628.7	501.8	352.4	226.8	160.5	158.5	165.4
122.5°	729.6	722.2	656.0	531.4	384.7	256.5	178.3	167.4	172.1
125°	784.3	765.2	690.1	572.5	431.9	300.9	212.1	182.1	182.1
127.5°	816.9	794.7	721.3	608.9	474.5	345.8	252.7	206.0	199.6
130°	835.9	812.0	740.3	634.1	502.4	374.8	281.2	226.5	216.3
132.5°	850.4	828.7	758.2	653.8	529.7	403.2	309.7	252.1	235.3
135°	868.0	849.6	785.7	684.0	568.0	445.8	352.4	296.2	279.1
137.5°	879.3	865.0	810.4	708.8	603.4	488.1	395.5	339.0	323.6
140°	885.4	873.8	822.7	723.4	625.2	515.3	425.6	368.1	353.8
142.5°	891.6	882.2	831.6	739.7	646.4	542.6	455.2	397.6	382.2
145°	904.3	893.4	846.4	759.4	676.8	580.6	501.0	440.7	427.0
147.5°	913.2	900.1	858.5	780.5	705.6	615.1	543.0	484.8	471.3
150°	915.5	901.8	865.2	791.8	722.9	636.2	568.7	513.3	500.3
152.5°	913.8	903.4	870.2	801.4	737.4	656.7	592.1	540.6	528.8
155°	914.8	905.2	874.3	814.3	755.7	685.4	627.3	581.6	569.4
157.5°	910.6	904.3	877.1	824.3	772.6	711.0	659.5	621.1	608.7
160°	910.6	901.0	877.1	830.0	784.3	727.6	679.6	645.2	635.0
162.5°	904.4	896.0	876.5	834.1	795.4	743.2	698.6	666.5	659.0
165°	893.1	886.3	873.6	839.4	809.4	764.4	725.7	696.9	692.2
167.5°	884.3	874.9	868.0	839.2	818.9	779.6	748.5	724.8	722.0
170°	874.3	868.1	862.4	837.7	823.3	790.6	764.7	741.0	738.2
172.5°	861.4	858.0	855.2	836.6	826.1	799.9	778.7	757.1	752.2
175°	841.5	844.2	843.6	834.4	828.9	811.9	798.9	783.4	777.3
177.5°	829.2	828.1	830.9	829.2	828.7	818.3	814.7	804.2	807.4
180°	822.0	822.0	822.0	822.0	822.0	822.0	822.0	822.0	822.0

(END OF REPORT)