

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: P522403

Luminaire Tested: **SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522403  
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-075U-125D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

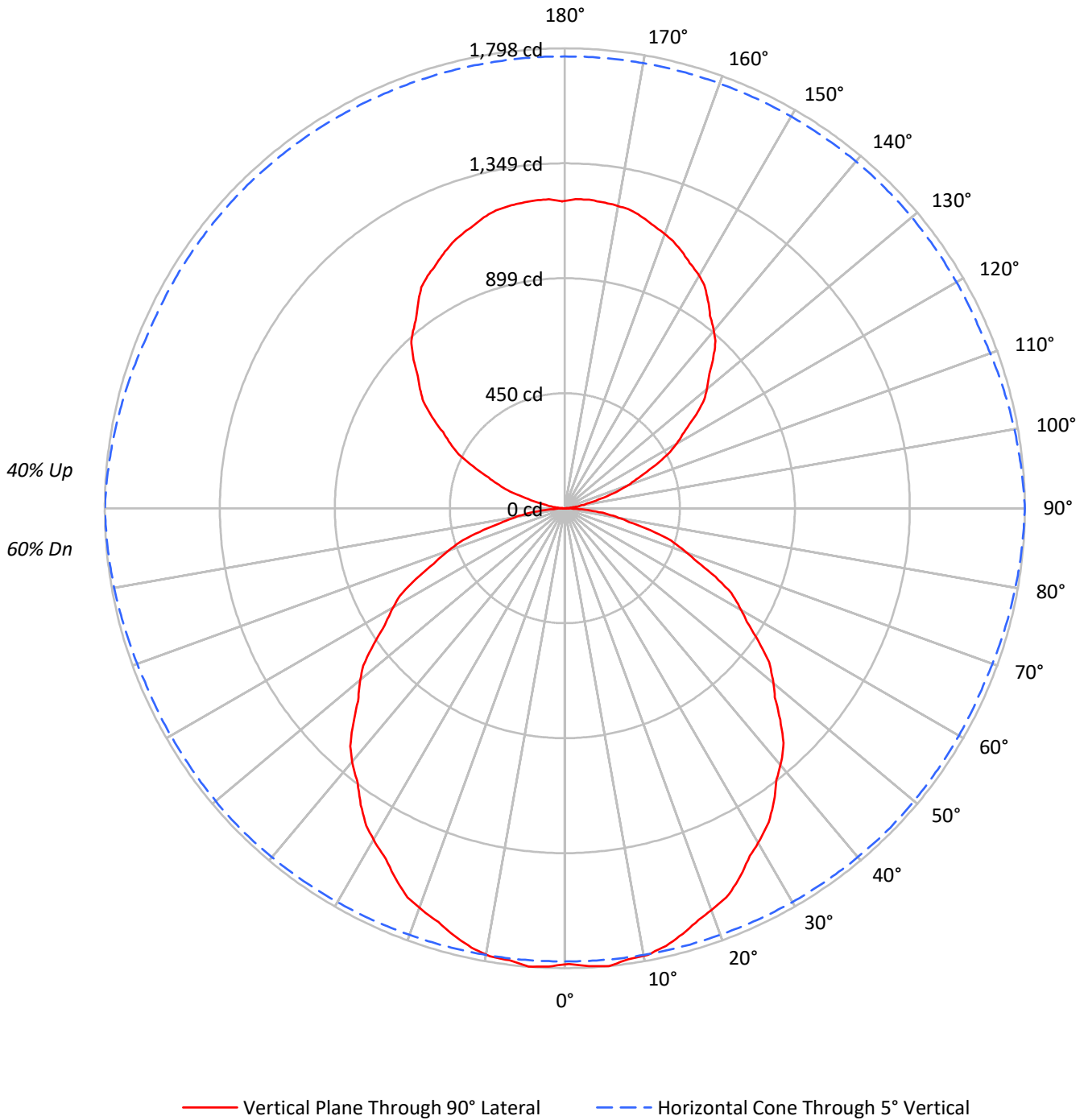
Lumens per Lamp: N/A  
Luminaire Lumens: 8321.2 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 85.1  
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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60				
1	100	95	91	88	93	89	86	83	78	75	73	67	65	63	57	56	55	50				
2	91	83	77	71	84	78	72	68	68	64	60	59	56	53	50	48	46	42				
3	83	73	65	59	77	68	62	56	60	55	50	52	48	44	44	41	39	35				
4	76	64	56	50	70	61	53	48	53	47	43	46	42	38	40	36	33	30				
5	69	57	49	43	65	54	46	41	47	41	37	41	37	33	36	32	29	26				
6	64	51	43	37	59	48	41	35	43	37	32	37	32	29	32	28	25	23				
7	59	46	38	33	55	44	36	31	39	33	28	34	29	25	29	25	23	20				
8	55	42	34	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18				
9	51	39	31	26	48	36	29	25	32	27	22	28	24	20	25	21	18	16				
10	48	35	28	23	45	33	27	22	30	24	20	26	22	18	23	19	16	15				

**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	2.0
10°-20°	481.7	5.8
20°-30°	724.7	8.7
30°-40°	865.6	10.4
40°-50°	889.5	10.7
50°-60°	799.6	9.6
60°-70°	607.8	7.3
70°-80°	346.3	4.2
80°-90°	90.1	1.1
90°-100°	31.5	0.4
100°-110°	136.5	1.6
110°-120°	389.3	4.7
120°-130°	592.0	7.1
130°-140°	640.3	7.7
140°-150°	611.8	7.4
150°-160°	503.2	6.0
160°-170°	328.8	4.0
170°-180°	113.7	1.4
0°-30°	1375.0	16.5
0°-40°	2240.6	26.9
0°-60°	3929.7	47.2
0°-90°	4974.0	59.8
90°-120°	557.4	6.7
90°-150°	2401.5	28.9
90°-180°	3347.0	40.2
0°-180°	8321.2	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°	5	7	21	51	48	7
105°	32	80	158	108	116	36
115°	287	764	394	187	212	395
125°	1145	1007	630	310	266	1006
135°	1267	1147	829	514	407	976
145°	1320	1235	988	731	623	827
155°	1335	1276	1103	915	831	617
165°	1303	1275	1181	1059	1010	370
175°	1228	1231	1210	1166	1134	119
180°	1200	1200	1200	1200	1200	



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CATALOG NUMBER: SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (4000K)

**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°	1.6	1.6	1.6	3.3	4.9	17.6	19.6	17.1	17.1
95°	5.1	5.1	7.1	22.4	21.4	36.3	50.9	47.9	47.9
97.5°	10.4	11.4	16.3	66.2	49.9	48.5	68.8	76.6	78.0
100°	15.3	16.3	24.4	108.2	74.3	63.4	75.4	89.7	92.7
102.5°	21.0	22.8	39.1	170.2	104.5	74.4	85.9	98.7	102.4
105°	31.6	34.6	80.4	285.3	157.8	97.1	107.9	113.1	116.1
107.5°	46.8	59.0	216.7	400.9	224.0	128.2	139.7	139.0	141.5
110°	63.1	88.0	374.7	464.1	272.9	152.4	152.7	160.8	157.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	104.7	175.0	558.8	524.9	321.8	181.4	165.0	182.9	183.9
115°	287.2	493.3	763.7	610.1	394.1	232.8	187.4	204.8	211.8
117.5°	712.0	858.2	868.6	685.8	466.2	290.1	213.0	220.8	229.9
120°	965.3	995.2	917.5	732.3	514.2	331.0	234.2	231.4	241.3
122.5°	1064.7	1054.0	957.4	775.6	561.5	374.3	260.3	244.3	251.1
125°	1144.6	1116.7	1007.1	835.4	630.3	439.2	309.6	265.8	265.8
127.5°	1192.2	1159.8	1052.7	888.6	692.4	504.7	368.8	300.6	291.2
130°	1219.9	1185.1	1080.4	925.3	733.2	547.0	410.4	330.6	315.7
132.5°	1241.1	1209.4	1106.5	954.1	773.1	588.5	451.9	367.9	343.4
135°	1266.8	1239.9	1146.6	998.2	828.9	650.7	514.2	432.2	407.3
137.5°	1283.3	1262.3	1182.6	1034.4	880.6	712.4	577.2	494.8	472.3
140°	1292.2	1275.3	1200.6	1055.8	912.4	752.1	621.2	537.2	516.3
142.5°	1301.2	1287.4	1213.6	1079.6	943.3	791.8	664.3	580.3	557.8
145°	1319.7	1303.8	1235.2	1108.2	987.7	847.4	731.1	643.1	623.2
147.5°	1332.7	1313.6	1252.9	1139.0	1029.7	897.7	792.4	707.5	687.8
150°	1336.0	1316.1	1262.7	1155.5	1055.0	928.5	829.9	749.0	730.1
152.5°	1333.6	1318.4	1270.0	1169.5	1076.1	958.4	864.1	789.0	771.7
155°	1335.0	1321.0	1275.9	1188.4	1102.8	1000.3	915.4	848.9	830.9
157.5°	1328.9	1319.7	1280.0	1202.9	1127.5	1037.6	962.5	906.5	888.4
160°	1328.9	1314.9	1280.0	1211.3	1144.6	1061.9	991.8	941.6	926.6
162.5°	1319.9	1307.6	1279.2	1217.2	1160.9	1084.6	1019.5	972.6	961.7
165°	1303.4	1293.5	1274.9	1225.0	1181.2	1115.5	1059.0	1017.1	1010.1
167.5°	1290.6	1276.8	1266.8	1224.7	1195.1	1137.7	1092.4	1057.7	1053.7
170°	1275.9	1267.0	1258.6	1222.5	1201.6	1153.8	1116.1	1081.3	1077.4
172.5°	1257.2	1252.2	1248.0	1221.0	1205.7	1167.4	1136.4	1104.9	1097.7
175°	1228.1	1232.0	1231.1	1217.7	1209.7	1184.8	1165.9	1143.3	1134.4
177.5°	1210.1	1208.5	1212.6	1210.1	1209.3	1194.2	1189.0	1173.6	1178.4
180°	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6

(END OF REPORT)