

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: P522553

Luminaire Tested: **SQW-F-075U-100D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522553  
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-075U-100D-93050-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

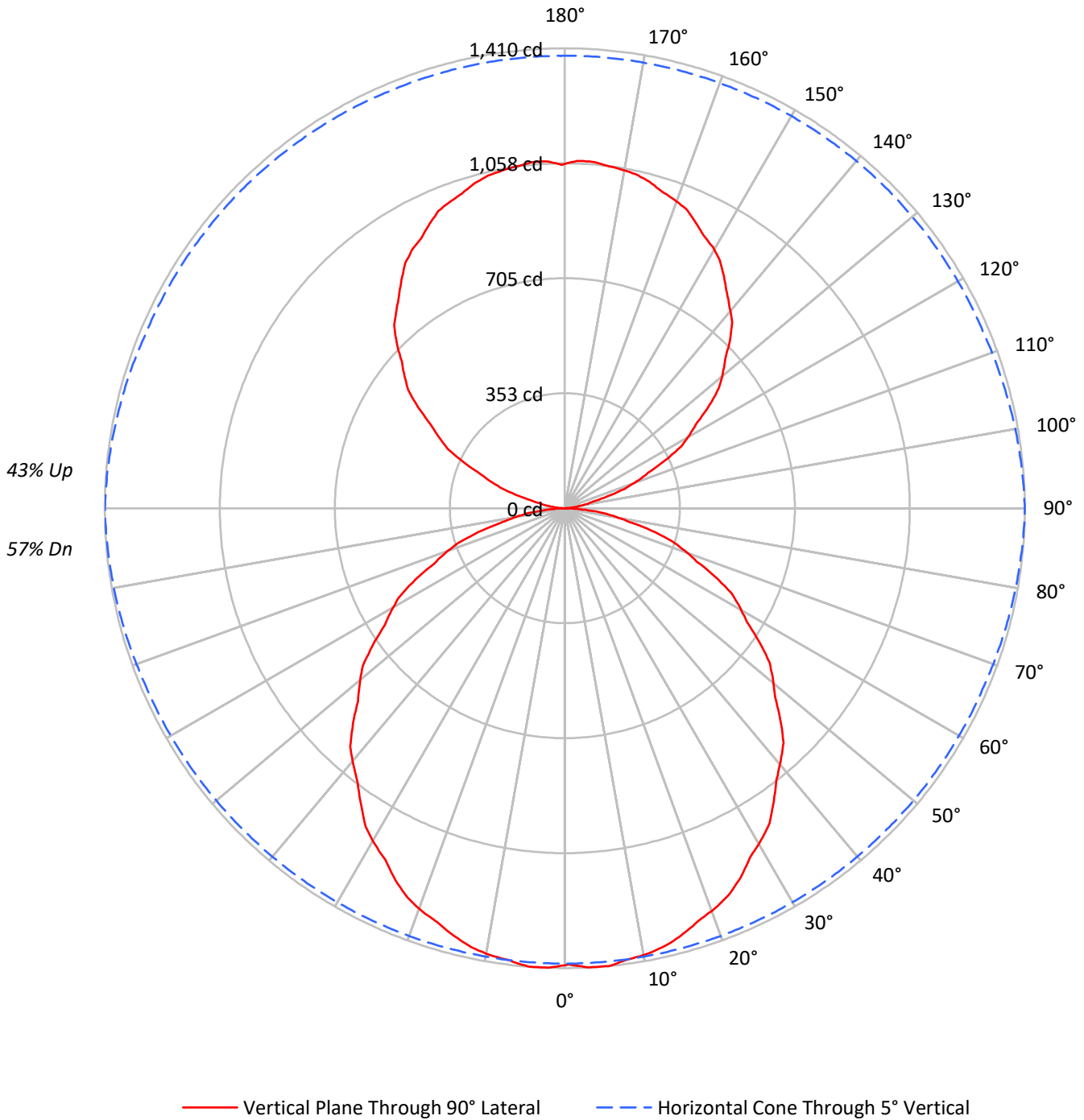
Lumens per Lamp: N/A  
Luminaire Lumens: 6837.4 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 69.5  
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	0
RCR																		
0	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57
1	99	95	91	87	92	88	85	82	76	74	71	65	64	62	55	54	53	48
2	90	83	76	71	84	77	72	67	67	63	59	57	54	51	48	46	44	40
3	82	72	65	59	76	68	61	56	59	54	49	50	47	43	43	40	37	34
4	75	64	56	50	70	60	53	47	52	46	42	45	40	37	38	35	32	29
5	69	57	49	43	64	53	46	40	47	41	36	40	36	32	34	31	28	25
6	64	51	43	37	59	48	40	35	42	36	31	36	32	28	31	27	24	22
7	59	46	38	32	54	43	36	31	38	32	28	33	28	25	28	25	22	19
8	54	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17
9	51	38	31	25	47	36	29	24	32	26	22	28	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	26	21	18	22	19	16	14

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

	0°	90°	180°
0°	22591	22591	22591
5°	22631	22853	22486
10°	22586	22779	22312
15°	22601	22651	22141
20°	22405	22524	21816
25°	22165	22322	21465
30°	21934	22061	21075
35°	21680	21739	20714
40°	21385	21467	20289
45°	20993	21151	19806
50°	20580	20778	19248
55°	19969	20358	18615
60°	19391	19898	17870
65°	18667	19343	16982
70°	17693	18387	15701
75°	16463	17137	13893
80°	14784	14598	11492
85°	11449	11634	7262



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.4	1.9
10°-20°	378.2	5.5
20°-30°	568.9	8.3
30°-40°	679.7	9.9
40°-50°	698.8	10.2
50°-60°	629.1	9.2
60°-70°	479.0	7.0
70°-80°	273.1	4.0
80°-90°	71.7	1.0
90°-100°	26.6	0.4
100°-110°	117.9	1.7
110°-120°	338.9	5.0
120°-130°	516.3	7.6
130°-140°	560.4	8.2
140°-150°	535.9	7.8
150°-160°	441.5	6.5
160°-170°	288.9	4.2
170°-180°	100.0	1.5
0°-30°	1079.5	15.8
0°-40°	1759.2	25.7
0°-60°	3087.1	45.2
0°-90°	3911.0	57.2
90°-120°	483.5	7.1
90°-150°	2096.1	30.7
90°-180°	2926.0	42.8
0°-180°	6837.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1399	1399	1399	1399	1399	
5°	1396	1394	1410	1390	1387	133
15°	1352	1352	1355	1335	1325	381
25°	1244	1255	1253	1226	1205	573
35°	1100	1113	1103	1075	1051	687
45°	919	926	926	891	867	708
55°	709	725	723	687	661	637
65°	489	501	506	465	444	483
75°	264	272	275	242	223	279
85°	62	67	63	52	39	73
90°	0	0	0	0	0	2
95°	4	6	19	41	40	5
105°	26	72	135	93	99	31
115°	254	668	342	160	180	351
125°	1010	879	545	270	230	886
135°	1113	1008	722	447	356	859
145°	1165	1084	862	637	544	730
155°	1176	1128	964	799	728	545
165°	1152	1122	1034	929	884	327
175°	1084	1087	1066	1018	994	105
180°	1053	1053	1053	1053	1053	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2
2.5°	1397.6	1400.7	1399.2	1397.1	1409.4	1395.6	1397.6	1395.9	1388.2
5°	1396.3	1395.3	1394.3	1395.6	1410.0	1391.8	1390.4	1387.4	1387.4
7.5°	1391.0	1390.0	1388.8	1384.8	1396.5	1378.4	1379.0	1376.0	1371.9
10°	1377.6	1380.5	1378.6	1376.9	1389.4	1368.3	1368.8	1365.7	1360.9
12.5°	1371.3	1371.1	1370.0	1364.3	1376.1	1354.9	1354.7	1350.9	1347.6
15°	1352.1	1351.1	1352.1	1342.6	1355.1	1335.9	1335.4	1327.5	1324.6
17.5°	1324.4	1326.0	1327.4	1317.6	1329.0	1306.1	1305.8	1296.5	1294.8
20°	1304.0	1304.0	1310.9	1300.3	1310.9	1288.8	1289.3	1270.6	1269.7
22.5°	1279.7	1281.2	1288.9	1278.3	1287.3	1264.5	1263.4	1247.8	1243.8
25°	1244.2	1245.1	1255.0	1242.5	1253.0	1229.0	1226.5	1205.9	1204.9
27.5°	1205.5	1205.1	1216.9	1202.4	1210.8	1189.5	1186.5	1164.7	1163.3
30°	1176.5	1174.6	1190.2	1175.7	1183.3	1161.3	1159.8	1133.2	1130.4
32.5°	1145.9	1144.7	1158.8	1146.6	1151.9	1131.4	1123.7	1101.9	1100.5
35°	1099.9	1096.1	1112.7	1100.0	1102.9	1083.7	1075.4	1052.8	1050.9
37.5°	1047.5	1045.8	1057.9	1050.0	1054.6	1034.5	1020.7	999.0	997.9
40°	1014.6	1009.8	1023.4	1014.7	1018.5	998.3	986.1	964.5	962.6
42.5°	974.5	974.3	985.7	978.6	983.2	962.3	946.9	926.0	923.3
45°	919.4	916.5	926.3	924.3	926.3	904.2	890.9	867.4	867.4
47.5°	858.6	856.6	869.7	864.5	867.2	848.0	830.9	809.8	806.4
50°	819.3	817.4	828.1	825.2	827.2	808.0	790.9	768.2	766.3
52.5°	778.5	776.6	788.1	784.4	785.6	768.7	750.0	729.7	726.3
55°	709.4	714.2	725.1	724.1	723.2	705.9	686.8	666.1	661.3
57.5°	650.0	651.9	659.6	661.1	657.8	646.5	623.3	603.1	598.1
60°	600.5	606.3	617.2	617.2	616.2	601.8	577.0	559.2	553.4
62.5°	555.0	561.5	570.9	573.2	572.2	554.8	533.8	516.7	509.4
65°	488.6	493.4	501.4	506.3	506.3	487.1	465.1	449.3	444.5
67.5°	419.6	425.3	432.7	438.5	435.9	418.0	399.0	384.6	376.6
70°	374.8	380.6	385.6	391.5	389.5	373.2	354.2	338.4	332.6
72.5°	329.3	335.8	340.1	345.1	342.4	326.1	309.5	295.2	287.9
75°	263.9	265.9	271.8	275.7	274.7	258.4	242.4	230.4	222.7
77.5°	199.8	200.5	205.5	207.1	202.5	192.2	179.2	169.8	162.1
80°	159.0	159.0	163.9	164.7	157.0	151.2	138.4	131.3	123.6
82.5°	117.4	118.1	124.6	124.7	118.5	112.0	103.0	95.3	90.7
85°	61.8	62.8	66.7	69.5	62.8	59.0	52.0	44.0	39.2
87.5°	16.5	17.3	22.8	25.8	19.6	19.6	12.6	8.6	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.8	0.8	1.6	2.4	3.9	14.7	16.5	14.9	14.1
95°	3.9	3.9	5.9	18.6	18.6	30.2	41.2	40.2	40.2
97.5°	8.8	9.8	13.7	56.8	42.4	41.2	58.9	64.8	65.3
100°	12.8	13.7	21.6	92.5	62.8	53.2	62.8	76.6	79.5
102.5°	17.5	19.2	34.1	146.1	88.7	63.8	73.8	83.7	86.5
105°	26.5	29.4	71.6	244.8	135.4	84.6	93.2	98.1	99.1
107.5°	39.8	50.6	196.0	344.3	192.1	111.9	117.0	120.3	121.5
110°	54.0	77.0	340.5	404.3	234.5	132.8	129.5	138.3	136.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	90.9	158.4	499.8	453.6	276.9	157.5	141.3	155.6	156.8
115°	254.1	436.4	668.2	523.7	341.5	200.4	159.9	173.8	179.6
117.5°	637.8	758.9	756.9	588.6	403.5	250.9	182.3	188.9	195.5
120°	857.6	875.8	801.6	632.5	443.5	287.1	201.1	198.3	204.1
122.5°	939.2	924.4	835.4	671.0	484.3	324.9	225.5	208.5	213.5
125°	1009.7	980.9	879.2	725.9	544.6	380.5	269.8	230.6	229.6
127.5°	1048.7	1018.6	921.9	773.6	599.9	438.3	320.3	261.8	253.0
130°	1067.6	1039.7	951.8	802.8	636.8	477.5	357.2	289.2	275.7
132.5°	1090.3	1060.2	973.0	832.7	672.1	514.4	394.1	322.1	306.3
135°	1112.7	1084.9	1007.7	871.8	722.2	568.7	447.4	376.3	356.2
137.5°	1132.7	1107.2	1039.5	902.6	767.3	622.1	504.0	434.7	410.1
140°	1146.1	1118.2	1052.8	926.2	794.8	655.7	541.6	472.5	453.3
142.5°	1150.8	1133.7	1067.0	946.1	825.4	687.8	579.3	507.9	490.2
145°	1164.7	1153.2	1084.2	969.9	861.5	735.8	636.8	562.8	543.6
147.5°	1173.7	1156.5	1100.1	995.6	896.8	778.8	689.0	618.0	600.1
150°	1174.5	1161.1	1112.7	1011.5	920.4	810.0	721.2	654.1	637.8
152.5°	1180.8	1164.3	1119.0	1025.0	937.6	836.5	753.4	691.0	673.1
155°	1176.5	1165.0	1128.4	1042.2	964.5	870.5	798.7	743.4	728.1
157.5°	1176.5	1162.3	1129.6	1055.7	990.4	907.9	841.1	790.0	778.5
160°	1168.6	1162.9	1130.4	1065.2	1003.8	928.9	869.4	822.9	807.5
162.5°	1165.5	1155.9	1131.9	1071.6	1015.6	946.1	893.7	849.7	838.2
165°	1151.9	1143.3	1122.5	1074.5	1034.2	976.6	929.2	889.8	884.1
167.5°	1136.4	1129.7	1116.0	1079.2	1046.6	999.5	959.6	927.9	920.0
170°	1125.4	1114.9	1109.8	1081.6	1052.8	1013.5	979.2	950.6	942.0
172.5°	1106.6	1105.3	1101.1	1075.6	1058.3	1025.9	997.3	971.1	965.5
175°	1084.2	1084.2	1087.2	1071.4	1065.6	1038.7	1018.5	1002.6	994.0
177.5°	1058.3	1059.1	1065.4	1064.6	1065.4	1050.0	1044.2	1029.3	1027.7
180°	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8

(END OF REPORT)