

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: P522394

Luminaire Tested: **SQW-F-075U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522394  
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-100D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

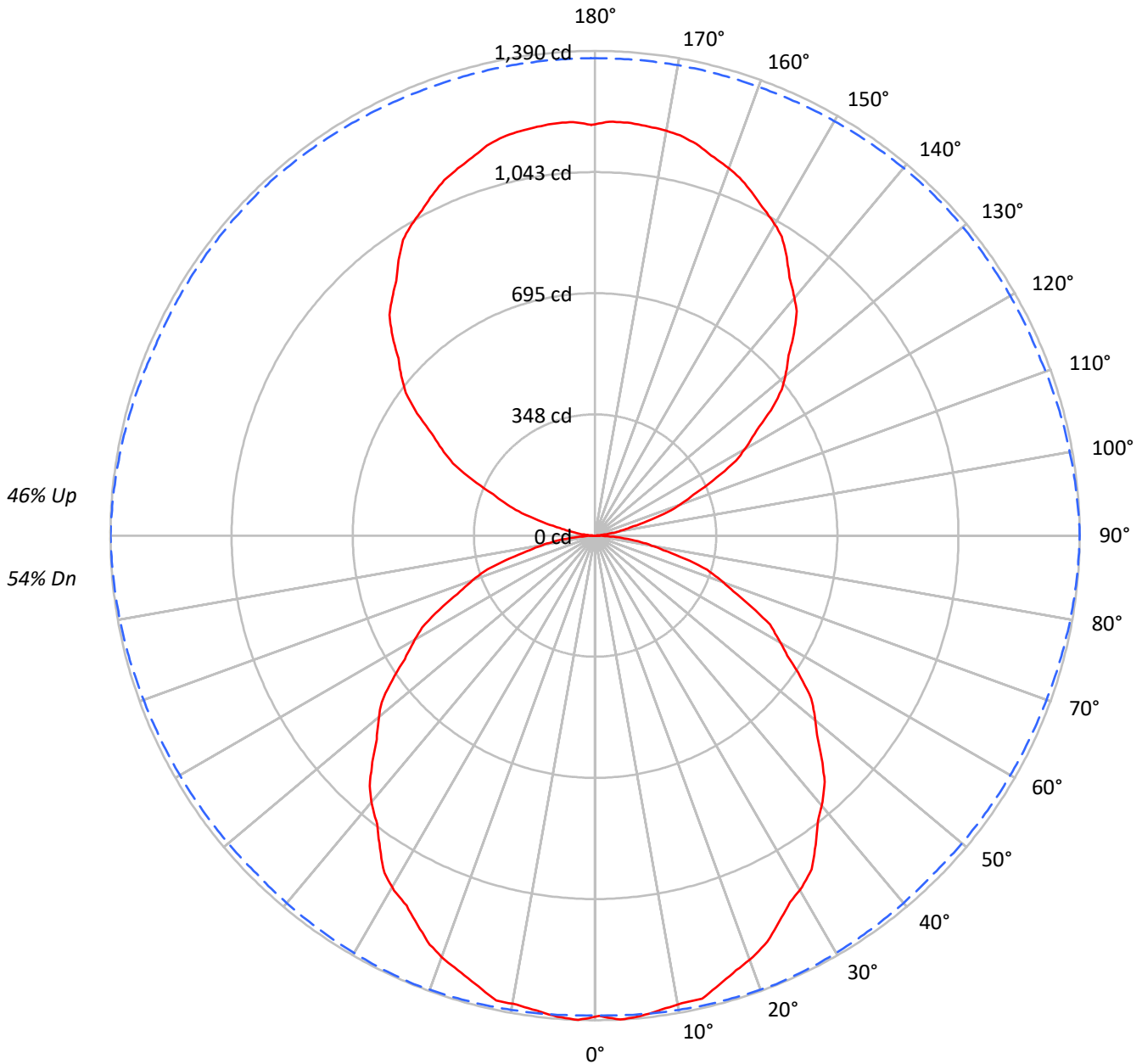
Lumens per Lamp: N/A  
Luminaire Lumens: 7138.6 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 70.3  
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



TEST NUMBER: P522394  
CATALOG NUMBER: SQW-F-075U-100D-92765-1D-UNV-STD-W-4 (3500K)

### Luminous Intensity Polar Plot



— Vertical Plane Through 90° Lateral      - - - Horizontal Cone Through 2.5° Vertical



TEST NUMBER: P522394

CATALOG NUMBER: SQW-F-075U-100D-92765-1D-UNV-STD-W-4 (3500K)

**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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	53	51	50	45
2	90	82	76	70	83	76	71	66	65	61	58	55	52	50	46	44	42	38
3	82	72	64	59	75	67	60	55	58	52	48	49	45	42	41	38	36	32
4	75	64	56	49	69	59	52	47	51	45	41	43	39	36	36	33	31	27
5	68	57	48	42	63	53	45	40	46	40	35	39	34	31	33	29	27	23
6	63	51	42	37	58	47	40	35	41	35	31	35	30	27	30	26	23	20
7	58	46	38	32	54	43	36	30	37	31	27	32	27	24	27	23	21	18
8	54	42	34	28	50	39	32	27	34	28	24	29	25	21	25	21	18	16
9	50	38	30	25	47	36	29	24	31	25	21	27	22	19	23	19	17	14
10	47	35	27	23	44	33	26	21	29	23	19	25	20	17	21	18	15	13

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

	0°	90°	180°
0°	22249	22249	22249
5°	22512	22431	22091
10°	22281	22363	22051
15°	22365	22332	21914
20°	21838	22182	21409
25°	21806	21859	21057
30°	21533	21813	20844
35°	21031	21465	20479
40°	20824	21182	20065
45°	20619	20801	19705
50°	19894	20522	19140
55°	19705	20127	18466
60°	18826	19536	17793
65°	17994	18911	16886
70°	17183	18033	15767
75°	15970	16594	14223
80°	13668	14505	11901
85°	10189	11300	8151



TEST NUMBER: P522394

CATALOG NUMBER: SQW-F-075U-100D-92765-1D-UNV-STD-W-4 (3500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.4	1.8
10°-20°	373.0	5.2
20°-30°	559.9	7.8
30°-40°	669.3	9.4
40°-50°	688.8	9.6
50°-60°	620.1	8.7
60°-70°	470.9	6.6
70°-80°	268.7	3.8
80°-90°	70.3	1.0
90°-100°	31.0	0.4
100°-110°	134.1	1.9
110°-120°	382.3	5.4
120°-130°	581.4	8.1
130°-140°	628.8	8.8
140°-150°	600.8	8.4
150°-160°	494.1	6.9
160°-170°	322.9	4.5
170°-180°	111.7	1.6
0°-30°	1063.4	14.9
0°-40°	1732.7	24.3
0°-60°	3041.6	42.6
0°-90°	3851.6	54.0
90°-120°	547.4	7.7
90°-150°	2358.3	33.0
90°-180°	3287.0	46.0
0°-180°	7138.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1378	1378	1378	1378	1378	
5°	1389	1378	1384	1360	1363	131
15°	1338	1330	1336	1317	1311	374
25°	1224	1231	1227	1214	1182	562
35°	1067	1093	1089	1065	1039	672
45°	903	910	911	891	863	690
55°	700	712	715	686	656	620
65°	471	484	495	461	442	468
75°	256	263	266	243	228	268
85°	55	63	61	55	44	66
90°	0	0	0	0	0	2
95°	5	7	21	50	47	6
105°	31	79	155	106	114	36
115°	282	750	387	184	208	388
125°	1124	989	619	304	261	988
135°	1244	1126	814	505	400	959
145°	1296	1213	970	718	612	812
155°	1311	1253	1083	899	816	606
165°	1280	1252	1160	1040	992	364
175°	1206	1209	1188	1145	1114	117
180°	1178	1178	1178	1178	1178	



TEST NUMBER: P522394

CATALOG NUMBER: SQW-F-075U-100D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0
2.5°	1376.4	1387.4	1372.4	1376.7	1390.0	1373.6	1378.0	1370.0	1369.2
5°	1389.0	1372.4	1378.0	1370.3	1384.0	1371.3	1360.0	1374.7	1363.0
7.5°	1365.4	1354.6	1376.6	1365.6	1372.8	1364.2	1365.4	1357.2	1357.0
10°	1359.0	1352.2	1359.0	1359.1	1364.0	1352.3	1351.0	1342.1	1345.0
12.5°	1340.6	1350.2	1339.8	1352.8	1363.2	1342.9	1335.0	1338.1	1343.4
15°	1338.0	1335.1	1330.0	1326.2	1336.0	1312.5	1317.0	1308.1	1311.0
17.5°	1297.4	1302.9	1305.4	1302.2	1311.0	1289.7	1284.6	1284.6	1286.0
20°	1271.0	1282.7	1291.0	1282.2	1291.0	1274.4	1271.0	1258.7	1246.0
22.5°	1256.6	1254.3	1271.0	1253.5	1265.4	1244.9	1254.2	1232.8	1239.6
25°	1224.0	1214.2	1231.0	1221.1	1227.0	1210.4	1214.0	1187.9	1182.0
27.5°	1180.6	1180.6	1190.8	1186.7	1190.8	1177.5	1173.8	1149.9	1147.6
30°	1155.0	1147.2	1166.0	1157.3	1170.0	1138.7	1141.0	1121.9	1118.0
32.5°	1120.6	1123.7	1136.4	1125.3	1140.4	1110.7	1116.2	1086.9	1091.6
35°	1067.0	1072.9	1093.0	1078.2	1089.0	1071.4	1065.0	1045.8	1039.0
37.5°	1032.8	1023.8	1033.6	1034.5	1037.8	1018.4	1011.4	988.2	990.4
40°	988.0	986.0	1000.0	1004.0	1005.0	986.4	981.0	953.0	952.0
42.5°	947.2	949.2	960.8	965.6	965.8	947.2	946.6	916.3	920.0
45°	903.0	900.1	910.0	909.0	911.0	891.4	891.0	862.0	863.0
47.5°	833.6	839.9	846.6	848.6	856.2	839.6	827.8	804.7	801.2
50°	792.0	803.7	805.0	814.1	817.0	796.5	787.0	767.9	762.0
52.5°	755.2	761.5	766.6	772.5	777.0	758.0	743.8	725.6	724.4
55°	700.0	696.1	712.0	710.1	715.0	700.3	686.0	665.8	656.0
57.5°	628.6	636.2	639.8	647.3	650.6	634.6	622.0	600.6	599.8
60°	583.0	593.8	595.0	607.9	605.0	591.3	578.0	558.8	551.0
62.5°	541.4	544.3	552.6	561.6	562.6	547.3	537.2	516.5	511.0
65°	471.0	476.9	484.0	496.0	495.0	484.2	461.0	449.8	442.0
67.5°	407.2	409.2	418.8	424.5	428.4	413.5	400.2	384.5	381.2
70°	364.0	362.0	374.0	378.1	382.0	370.3	357.0	342.8	334.0
72.5°	316.8	318.8	327.6	334.1	336.4	324.7	310.6	299.7	294.0
75°	256.0	254.0	263.0	267.0	266.0	257.2	243.0	235.8	228.0
77.5°	188.6	192.5	197.8	201.4	200.0	194.1	183.0	172.1	168.8
80°	147.0	150.9	157.0	158.9	156.0	150.1	143.0	132.9	128.0
82.5°	108.6	110.9	117.0	120.5	116.0	112.5	106.2	98.5	92.8
85°	55.0	57.0	63.0	64.9	61.0	61.0	55.0	47.9	44.0
87.5°	12.8	13.6	18.4	23.9	19.2	20.8	16.0	11.9	8.8
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	3.2	4.8	17.3	19.2	16.8	16.8
95°	5.0	5.0	7.0	22.0	21.0	35.7	50.0	47.0	47.0
97.5°	10.2	11.2	16.0	65.0	49.0	47.6	67.6	75.2	76.6
100°	15.0	16.0	24.0	106.2	73.0	62.2	74.0	88.1	91.0
102.5°	20.6	22.4	38.4	167.1	102.6	73.1	84.4	96.9	100.6
105°	31.0	33.9	79.0	280.2	155.0	95.4	106.0	111.1	114.0
107.5°	46.0	57.9	212.8	393.7	220.0	125.9	137.2	136.5	139.0
110°	62.0	86.4	368.0	455.7	268.0	149.7	150.0	157.9	155.0



TEST NUMBER: P522394

CATALOG NUMBER: SQW-F-075U-100D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	102.8	171.8	548.8	515.5	316.0	178.1	162.0	179.6	180.6
115°	282.0	484.4	750.0	599.2	387.0	228.6	184.0	201.2	208.0
117.5°	699.2	842.7	853.0	673.5	457.8	284.9	209.2	216.8	225.8
120°	948.0	977.3	901.0	719.1	505.0	325.1	230.0	227.2	237.0
122.5°	1045.6	1035.0	940.2	761.6	551.4	367.6	255.6	240.0	246.6
125°	1124.0	1096.6	989.0	820.4	619.0	431.3	304.0	261.0	261.0
127.5°	1170.8	1138.9	1033.8	872.6	680.0	495.6	362.2	295.2	286.0
130°	1198.0	1163.8	1061.0	908.7	720.0	537.2	403.0	324.7	310.0
132.5°	1218.8	1187.7	1086.6	937.0	759.2	577.9	443.8	361.3	337.2
135°	1244.0	1217.6	1126.0	980.2	814.0	639.0	505.0	424.4	400.0
137.5°	1260.2	1239.7	1161.4	1015.8	864.8	699.6	566.8	485.9	463.8
140°	1269.0	1252.4	1179.0	1036.8	896.0	738.6	610.0	527.5	507.0
142.5°	1277.8	1264.3	1191.8	1060.2	926.4	777.6	652.4	569.9	547.8
145°	1296.0	1280.4	1213.0	1088.3	970.0	832.1	718.0	631.6	612.0
147.5°	1308.8	1290.0	1230.4	1118.6	1011.2	881.5	778.2	694.8	675.4
150°	1312.0	1292.4	1240.0	1134.8	1036.0	911.8	815.0	735.6	717.0
152.5°	1309.6	1294.7	1247.2	1148.5	1056.8	941.2	848.6	774.8	757.8
155°	1311.0	1297.3	1253.0	1167.1	1083.0	982.3	899.0	833.6	816.0
157.5°	1305.0	1296.0	1257.0	1181.3	1107.2	1019.0	945.2	890.2	872.4
160°	1305.0	1291.3	1257.0	1189.5	1124.0	1042.8	974.0	924.7	910.0
162.5°	1296.2	1284.1	1256.2	1195.3	1140.0	1065.1	1001.2	955.2	944.4
165°	1280.0	1270.2	1252.0	1203.0	1160.0	1095.5	1040.0	998.8	992.0
167.5°	1267.4	1253.9	1244.0	1202.7	1173.6	1117.3	1072.8	1038.7	1034.8
170°	1253.0	1244.2	1236.0	1200.5	1180.0	1133.1	1096.0	1061.9	1058.0
172.5°	1234.6	1229.7	1225.6	1199.1	1184.0	1146.5	1116.0	1085.0	1078.0
175°	1206.0	1209.9	1209.0	1195.8	1188.0	1163.6	1145.0	1122.8	1114.0
177.5°	1188.4	1186.8	1190.8	1188.4	1187.6	1172.7	1167.6	1152.5	1157.2
180°	1178.0	1178.0	1178.0	1178.0	1178.0	1178.0	1178.0	1178.0	1178.0

(END OF REPORT)