

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: P522398

Luminaire Tested: **SQW-F-075U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522398  
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 (5700K)  
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 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

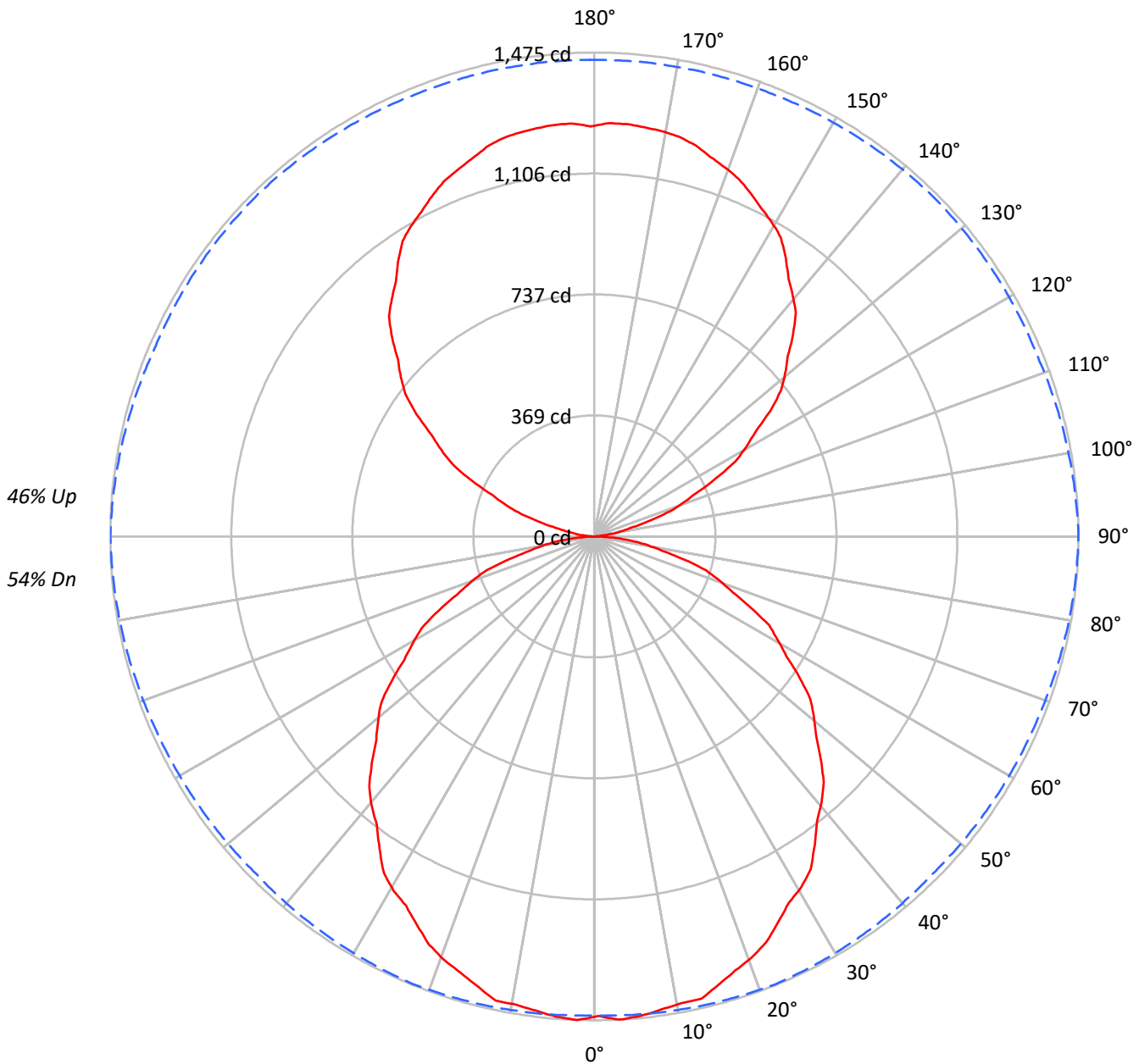
Lumens per Lamp: N/A  
Luminaire Lumens: 7574.6 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 70.1  
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



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



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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	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°	23608	23608	23608
5°	23887	23801	23439
10°	23641	23728	23397
15°	23731	23696	23253
20°	23172	23536	22716
25°	23138	23193	22344
30°	22848	23146	22117
35°	22316	22775	21731
40°	22095	22476	21290
45°	21877	22071	20909
50°	21110	21775	20308
55°	20909	21357	19595
60°	19976	20728	18881
65°	19095	20065	17918
70°	18231	19133	16730
75°	16943	17604	15090
80°	14505	15388	12627
85°	10819	11986	8651



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.4	1.8
10°-20°	395.8	5.2
20°-30°	594.1	7.8
30°-40°	710.2	9.4
40°-50°	730.9	9.6
50°-60°	658.0	8.7
60°-70°	499.7	6.6
70°-80°	285.1	3.8
80°-90°	74.6	1.0
90°-100°	32.9	0.4
100°-110°	142.3	1.9
110°-120°	405.7	5.4
120°-130°	616.9	8.1
130°-140°	667.2	8.8
140°-150°	637.5	8.4
150°-160°	524.3	6.9
160°-170°	342.6	4.5
170°-180°	118.5	1.6
0°-30°	1128.3	14.9
0°-40°	1838.5	24.3
0°-60°	3227.4	42.6
0°-90°	4086.8	54.0
90°-120°	580.8	7.7
90°-150°	2502.4	33.0
90°-180°	3488.0	46.0
0°-180°	7574.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1462	1462	1462	1462	1462	
5°	1474	1462	1468	1443	1446	139
15°	1420	1411	1418	1397	1391	397
25°	1299	1306	1302	1288	1254	597
35°	1132	1160	1156	1130	1102	713
45°	958	966	967	945	916	732
55°	743	756	759	728	696	657
65°	500	514	525	489	469	497
75°	272	279	282	258	242	284
85°	58	67	65	58	47	70
90°	0	0	0	0	0	2
95°	5	7	22	53	50	7
105°	33	84	164	112	121	38
115°	299	796	411	195	221	412
125°	1193	1049	657	323	277	1048
135°	1320	1195	864	536	424	1017
145°	1375	1287	1029	762	649	861
155°	1391	1330	1149	954	866	643
165°	1358	1328	1231	1104	1053	386
175°	1280	1283	1261	1215	1182	124
180°	1250	1250	1250	1250	1250	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2
2.5°	1460.5	1472.1	1456.2	1460.8	1474.9	1457.5	1462.2	1453.6	1452.8
5°	1473.8	1456.2	1462.2	1454.0	1468.5	1455.0	1443.1	1458.7	1446.2
7.5°	1448.8	1437.4	1460.7	1449.0	1456.6	1447.5	1448.8	1440.1	1439.9
10°	1442.0	1434.7	1442.0	1442.1	1447.3	1434.9	1433.5	1424.0	1427.1
12.5°	1422.5	1432.6	1421.6	1435.5	1446.5	1424.9	1416.5	1419.8	1425.4
15°	1419.7	1416.6	1411.2	1407.2	1417.6	1392.7	1397.4	1388.0	1391.1
17.5°	1376.6	1382.4	1385.1	1381.7	1391.1	1368.4	1363.1	1363.1	1364.5
20°	1348.6	1361.1	1369.8	1360.5	1369.8	1352.2	1348.6	1335.6	1322.1
22.5°	1333.3	1330.9	1348.6	1330.0	1342.7	1320.9	1330.8	1308.0	1315.3
25°	1298.8	1288.4	1306.2	1295.7	1301.9	1284.3	1288.1	1260.4	1254.2
27.5°	1252.7	1252.7	1263.5	1259.2	1263.5	1249.4	1245.5	1220.2	1217.7
30°	1225.5	1217.2	1237.2	1228.0	1241.5	1208.3	1210.7	1190.4	1186.3
32.5°	1189.0	1192.4	1205.8	1194.1	1210.0	1178.5	1184.4	1153.3	1158.3
35°	1132.2	1138.4	1159.8	1144.1	1155.5	1136.8	1130.0	1109.7	1102.5
37.5°	1095.9	1086.3	1096.7	1097.7	1101.2	1080.6	1073.2	1048.6	1050.9
40°	1048.3	1046.3	1061.1	1065.3	1066.4	1046.7	1040.9	1011.2	1010.1
42.5°	1005.0	1007.1	1019.5	1024.6	1024.8	1005.1	1004.4	972.2	976.2
45°	958.1	955.0	965.6	964.6	966.6	945.9	945.4	914.7	915.7
47.5°	884.5	891.1	898.3	900.4	908.5	890.9	878.4	853.9	850.1
50°	840.4	852.8	854.2	863.8	866.9	845.1	835.1	814.8	808.5
52.5°	801.3	808.0	813.4	819.7	824.5	804.3	789.2	769.9	768.6
55°	742.8	738.6	755.5	753.5	758.7	743.1	727.9	706.4	696.1
57.5°	667.0	675.1	678.9	686.8	690.3	673.3	660.0	637.3	636.4
60°	618.6	630.0	631.3	645.1	641.9	627.4	613.3	593.0	584.7
62.5°	574.5	577.6	586.3	595.9	597.0	580.8	570.0	548.0	542.2
65°	499.8	506.0	513.6	526.3	525.2	513.8	489.2	477.3	469.0
67.5°	432.1	434.1	444.4	450.4	454.6	438.8	424.6	408.0	404.5
70°	386.2	384.2	396.8	401.2	405.3	392.9	378.8	363.7	354.4
72.5°	336.1	338.2	347.6	354.5	356.9	344.5	329.6	318.0	312.0
75°	271.6	269.6	279.1	283.3	282.2	272.9	257.8	250.2	241.9
77.5°	200.1	204.3	209.9	213.7	212.2	206.0	194.2	182.6	179.1
80°	156.0	160.1	166.6	168.6	165.5	159.3	151.7	141.0	135.8
82.5°	115.2	117.7	124.1	127.9	123.1	119.3	112.7	104.5	98.5
85°	58.4	60.4	66.8	68.9	64.7	64.7	58.4	50.8	46.7
87.5°	13.6	14.4	19.5	25.4	20.4	22.0	17.0	12.7	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.7	1.7	1.7	3.4	5.1	18.4	20.4	17.8	17.8
95°	5.3	5.3	7.4	23.3	22.3	37.8	53.1	49.9	49.9
97.5°	10.8	11.9	17.0	69.0	52.0	50.5	71.7	79.8	81.3
100°	15.9	17.0	25.5	112.7	77.5	66.0	78.5	93.4	96.6
102.5°	21.9	23.7	40.7	177.3	108.9	77.5	89.6	102.8	106.7
105°	32.9	36.0	83.8	297.3	164.5	101.2	112.5	117.8	121.0
107.5°	48.8	61.5	225.8	417.7	233.4	133.6	145.6	144.8	147.5
110°	65.8	91.7	390.5	483.6	284.4	158.8	159.2	167.6	164.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	109.1	182.3	582.3	546.9	335.3	189.0	171.9	190.6	191.6
115°	299.2	514.0	795.8	635.8	410.6	242.6	195.2	213.4	220.7
117.5°	741.9	894.2	905.1	714.6	485.8	302.3	222.0	230.0	239.6
120°	1005.9	1037.0	956.0	763.1	535.8	344.9	244.0	241.1	251.5
122.5°	1109.5	1098.3	997.6	808.1	585.1	390.0	271.2	254.6	261.7
125°	1192.6	1163.6	1049.4	870.5	656.8	457.6	322.6	276.9	276.9
127.5°	1242.3	1208.5	1096.9	925.9	721.5	525.9	384.3	313.2	303.5
130°	1271.2	1234.9	1125.8	964.2	764.0	570.0	427.6	344.5	328.9
132.5°	1293.2	1260.2	1153.0	994.2	805.6	613.2	470.9	383.3	357.8
135°	1320.0	1292.0	1194.8	1040.1	863.7	678.0	535.8	450.4	424.4
137.5°	1337.2	1315.4	1232.3	1077.8	917.6	742.3	601.4	515.6	492.1
140°	1346.5	1328.9	1251.0	1100.1	950.7	783.7	647.3	559.8	538.0
142.5°	1355.8	1341.5	1264.6	1124.9	983.0	825.1	692.2	604.7	581.3
145°	1375.1	1358.5	1287.1	1154.8	1029.2	883.0	761.8	670.1	649.4
147.5°	1388.7	1368.8	1305.5	1186.9	1073.0	935.4	825.7	737.2	716.6
150°	1392.1	1371.4	1315.7	1204.1	1099.3	967.5	864.8	780.5	760.8
152.5°	1389.6	1373.8	1323.4	1218.7	1121.3	998.7	900.4	822.1	804.1
155°	1391.1	1376.5	1329.5	1238.4	1149.1	1042.3	953.9	884.5	865.8
157.5°	1384.7	1375.2	1333.8	1253.5	1174.8	1081.2	1002.9	944.6	925.7
160°	1384.7	1370.2	1333.8	1262.2	1192.6	1106.5	1033.5	981.1	965.6
162.5°	1375.4	1362.5	1332.9	1268.3	1209.6	1130.1	1062.3	1013.5	1002.1
165°	1358.2	1347.8	1328.5	1276.5	1230.8	1162.4	1103.5	1059.8	1052.6
167.5°	1344.8	1330.5	1320.0	1276.2	1245.3	1185.5	1138.3	1102.1	1098.0
170°	1329.5	1320.2	1311.5	1273.9	1252.1	1202.3	1162.9	1126.8	1122.6
172.5°	1310.0	1304.8	1300.4	1272.3	1256.3	1216.5	1184.2	1151.3	1143.8
175°	1279.7	1283.8	1282.8	1268.9	1260.6	1234.6	1214.9	1191.4	1182.0
177.5°	1261.0	1259.3	1263.5	1261.0	1260.1	1244.4	1238.9	1222.9	1227.9
180°	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9

(END OF REPORT)