

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: P522392

Luminaire Tested: **SQW-F-075U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522392  
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 (2700K)  
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 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

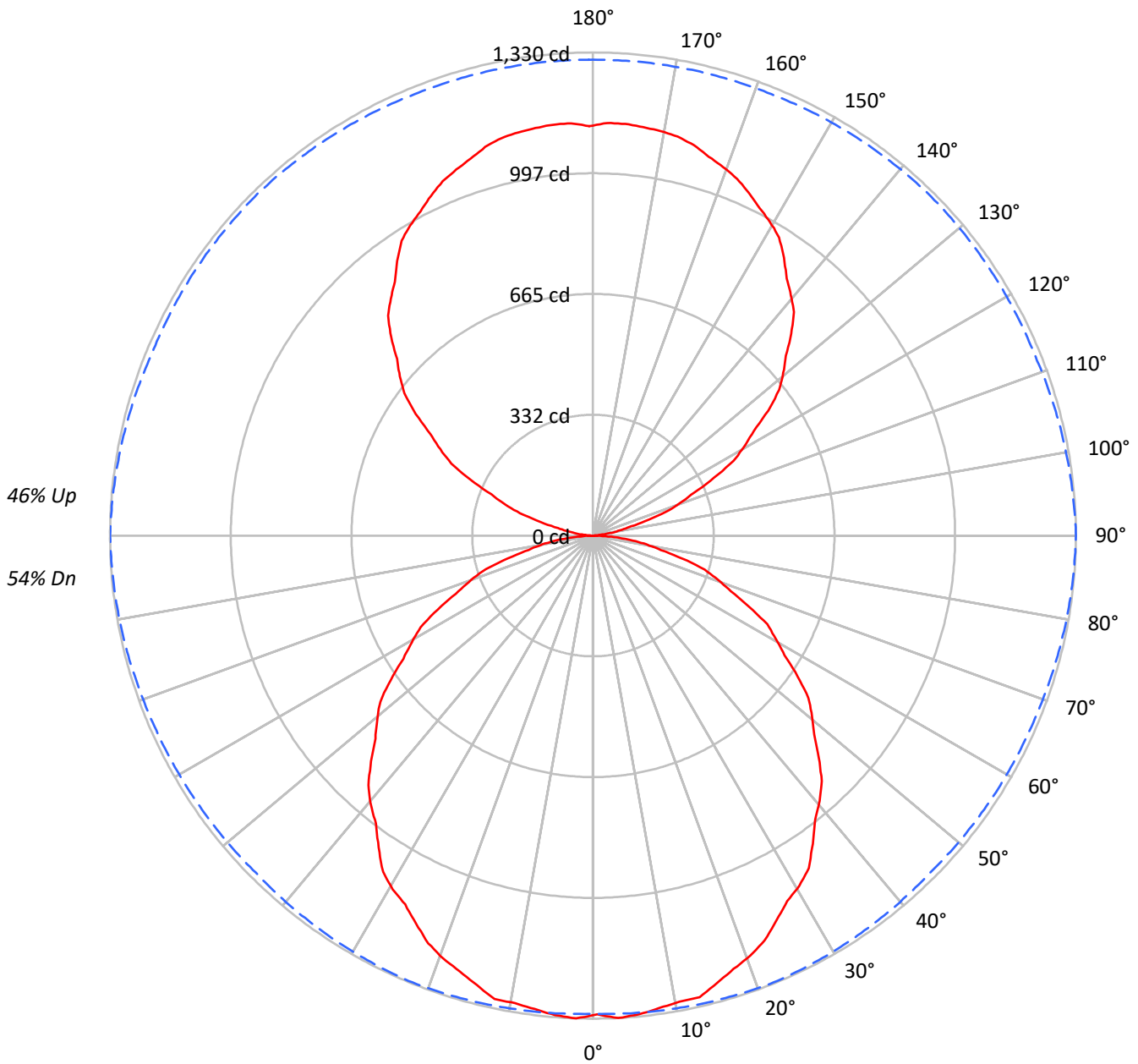
Lumens per Lamp: N/A  
Luminaire Lumens: 6829.8 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

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	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°	21287	21287	21287
5°	21538	21460	21135
10°	21317	21395	21097
15°	21397	21366	20966
20°	20893	21222	20483
25°	20861	20913	20147
30°	20601	20870	19941
35°	20120	20536	19594
40°	19924	20265	19197
45°	19726	19902	18854
50°	19032	19635	18311
55°	18852	19257	17667
60°	18012	18690	17024
65°	17215	18094	16157
70°	16442	17254	15087
75°	15278	15876	13606
80°	13073	13882	11390
85°	9744	10819	7799



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.8	1.8
10°-20°	356.9	5.2
20°-30°	535.7	7.8
30°-40°	640.4	9.4
40°-50°	659.0	9.6
50°-60°	593.3	8.7
60°-70°	450.6	6.6
70°-80°	257.1	3.8
80°-90°	67.3	1.0
90°-100°	29.6	0.4
100°-110°	128.3	1.9
110°-120°	365.8	5.4
120°-130°	556.2	8.1
130°-140°	601.6	8.8
140°-150°	574.8	8.4
150°-160°	472.8	6.9
160°-170°	308.9	4.5
170°-180°	106.8	1.6
0°-30°	1017.4	14.9
0°-40°	1657.8	24.3
0°-60°	2910.0	42.6
0°-90°	3685.0	54.0
90°-120°	523.7	7.7
90°-150°	2256.3	33.0
90°-180°	3145.0	46.0
0°-180°	6829.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1318	1318	1318	1318	1318	
5°	1329	1318	1324	1301	1304	125
15°	1280	1272	1278	1260	1254	358
25°	1171	1178	1174	1162	1131	538
35°	1021	1046	1042	1019	994	643
45°	864	871	872	852	826	660
55°	670	681	684	656	628	593
65°	451	463	474	441	423	448
75°	245	252	254	232	218	256
85°	53	60	58	53	42	63
90°	0	0	0	0	0	2
95°	5	7	20	48	45	6
105°	30	76	148	101	109	34
115°	270	718	370	176	199	371
125°	1075	946	592	291	250	945
135°	1190	1077	779	483	383	917
145°	1240	1160	928	687	586	777
155°	1254	1199	1036	860	781	580
165°	1225	1198	1110	995	949	348
175°	1154	1157	1137	1096	1066	112
180°	1127	1127	1127	1127	1127	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4
2.5°	1316.9	1327.3	1313.0	1317.1	1329.9	1314.2	1318.4	1310.7	1310.0
5°	1328.9	1313.0	1318.4	1311.0	1324.1	1312.0	1301.2	1315.3	1304.0
7.5°	1306.3	1296.0	1317.0	1306.5	1313.4	1305.2	1306.3	1298.5	1298.3
10°	1300.2	1293.7	1300.2	1300.3	1305.0	1293.8	1292.6	1284.0	1286.8
12.5°	1282.6	1291.8	1281.8	1294.3	1304.2	1284.8	1277.2	1280.2	1285.3
15°	1280.1	1277.3	1272.5	1268.8	1278.2	1255.8	1260.0	1251.5	1254.3
17.5°	1241.3	1246.5	1248.9	1245.9	1254.3	1233.9	1229.0	1229.1	1230.4
20°	1216.0	1227.2	1235.1	1226.7	1235.1	1219.2	1216.0	1204.3	1192.1
22.5°	1202.2	1200.0	1216.0	1199.2	1210.7	1191.0	1199.9	1179.4	1186.0
25°	1171.0	1161.7	1177.7	1168.3	1173.9	1158.0	1161.5	1136.5	1130.9
27.5°	1129.5	1129.5	1139.3	1135.4	1139.3	1126.6	1123.0	1100.2	1098.0
30°	1105.0	1097.5	1115.6	1107.2	1119.4	1089.4	1091.6	1073.4	1069.6
32.5°	1072.1	1075.1	1087.2	1076.7	1091.1	1062.6	1067.9	1039.9	1044.4
35°	1020.8	1026.5	1045.7	1031.6	1041.9	1025.0	1018.9	1000.6	994.1
37.5°	988.1	979.5	988.9	989.7	992.9	974.4	967.6	945.5	947.6
40°	945.3	943.4	956.7	960.6	961.5	943.7	938.6	911.8	910.8
42.5°	906.2	908.1	919.2	923.8	924.0	906.2	905.6	876.6	880.2
45°	863.9	861.1	870.6	869.7	871.6	852.9	852.5	824.7	825.7
47.5°	797.5	803.5	810.0	811.9	819.2	803.3	792.0	769.9	766.5
50°	757.7	769.0	770.2	778.8	781.7	762.0	753.0	734.6	729.0
52.5°	722.5	728.5	733.4	739.1	743.4	725.2	711.6	694.2	693.1
55°	669.7	666.0	681.2	679.4	684.1	670.0	656.3	637.0	627.6
57.5°	601.4	608.7	612.1	619.3	622.5	607.1	595.1	574.6	573.9
60°	557.8	568.1	569.3	581.6	578.8	565.7	553.0	534.6	527.2
62.5°	518.0	520.8	528.7	537.3	538.3	523.7	514.0	494.1	488.9
65°	450.6	456.2	463.1	474.5	473.6	463.3	441.1	430.4	422.9
67.5°	389.6	391.5	400.7	406.1	409.9	395.6	382.9	367.9	364.7
70°	348.3	346.4	357.8	361.7	365.5	354.2	341.6	328.0	319.6
72.5°	303.1	305.0	313.4	319.6	321.8	310.6	297.2	286.7	281.3
75°	244.9	243.1	251.6	255.4	254.5	246.1	232.5	225.6	218.1
77.5°	180.4	184.2	189.2	192.7	191.3	185.7	175.1	164.7	161.5
80°	140.6	144.4	150.2	152.1	149.3	143.6	136.8	127.1	122.5
82.5°	103.9	106.1	111.9	115.3	111.0	107.6	101.6	94.2	88.8
85°	52.6	54.5	60.3	62.1	58.4	58.4	52.6	45.8	42.1
87.5°	12.2	13.0	17.6	22.9	18.4	19.9	15.3	11.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.5	1.5	1.5	3.1	4.6	16.6	18.4	16.1	16.1
95°	4.8	4.8	6.7	21.0	20.1	34.1	47.8	45.0	45.0
97.5°	9.8	10.7	15.3	62.2	46.9	45.6	64.7	72.0	73.3
100°	14.4	15.3	23.0	101.6	69.8	59.6	70.8	84.3	87.1
102.5°	19.7	21.4	36.7	159.9	98.2	69.9	80.7	92.7	96.2
105°	29.7	32.5	75.6	268.0	148.3	91.2	101.4	106.3	109.1
107.5°	44.0	55.4	203.6	376.6	210.5	120.5	131.3	130.6	133.0
110°	59.3	82.7	352.1	436.0	256.4	143.2	143.5	151.1	148.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	98.4	164.4	525.1	493.2	302.3	170.4	155.0	171.9	172.8
115°	269.8	463.4	717.6	573.3	370.3	218.7	176.0	192.5	199.0
117.5°	669.0	806.3	816.1	644.4	438.0	272.6	200.1	207.4	216.0
120°	907.0	935.1	862.0	688.0	483.2	311.0	220.0	217.4	226.7
122.5°	1000.4	990.3	899.5	728.7	527.5	351.7	244.5	229.6	235.9
125°	1075.4	1049.2	946.2	784.9	592.2	412.6	290.8	249.7	249.7
127.5°	1120.1	1089.7	989.1	834.9	650.6	474.2	346.5	282.4	273.6
130°	1146.2	1113.4	1015.1	869.4	688.9	513.9	385.6	310.6	296.6
132.5°	1166.1	1136.3	1039.6	896.4	726.4	552.9	424.6	345.6	322.6
135°	1190.2	1164.9	1077.3	937.8	778.8	611.3	483.2	406.1	382.7
137.5°	1205.7	1186.0	1111.2	971.8	827.4	669.3	542.3	464.9	443.7
140°	1214.1	1198.2	1128.0	991.9	857.2	706.6	583.6	504.7	485.1
142.5°	1222.5	1209.6	1140.2	1014.3	886.3	743.9	624.2	545.2	524.1
145°	1239.9	1225.0	1160.5	1041.2	928.0	796.1	686.9	604.2	585.5
147.5°	1252.2	1234.2	1177.2	1070.2	967.5	843.4	744.5	664.7	646.2
150°	1255.2	1236.5	1186.4	1085.7	991.2	872.4	779.7	703.8	686.0
152.5°	1252.9	1238.7	1193.2	1098.8	1011.1	900.5	811.9	741.3	725.0
155°	1254.3	1241.2	1198.8	1116.6	1036.1	939.8	860.1	797.5	780.7
157.5°	1248.5	1239.9	1202.6	1130.2	1059.3	974.9	904.3	851.7	834.7
160°	1248.5	1235.4	1202.6	1138.0	1075.4	997.7	931.9	884.7	870.6
162.5°	1240.1	1228.5	1201.9	1143.6	1090.7	1019.0	957.9	913.8	903.5
165°	1224.6	1215.3	1197.8	1151.0	1109.8	1048.1	995.0	955.6	949.1
167.5°	1212.6	1199.7	1190.2	1150.7	1122.8	1068.9	1026.4	993.8	990.0
170°	1198.8	1190.4	1182.5	1148.6	1128.9	1084.0	1048.6	1016.0	1012.2
172.5°	1181.2	1176.5	1172.6	1147.2	1132.8	1096.9	1067.7	1038.1	1031.4
175°	1153.8	1157.6	1156.7	1144.1	1136.6	1113.2	1095.5	1074.2	1065.8
177.5°	1137.0	1135.5	1139.3	1137.0	1136.2	1122.0	1117.1	1102.6	1107.1
180°	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0

(END OF REPORT)