

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: P522464

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

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522464  
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-100U-075D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 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: 6912.4 lumens  
Efficiency: N/A  
Efficacy: 103.2 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: Semi-Indirect

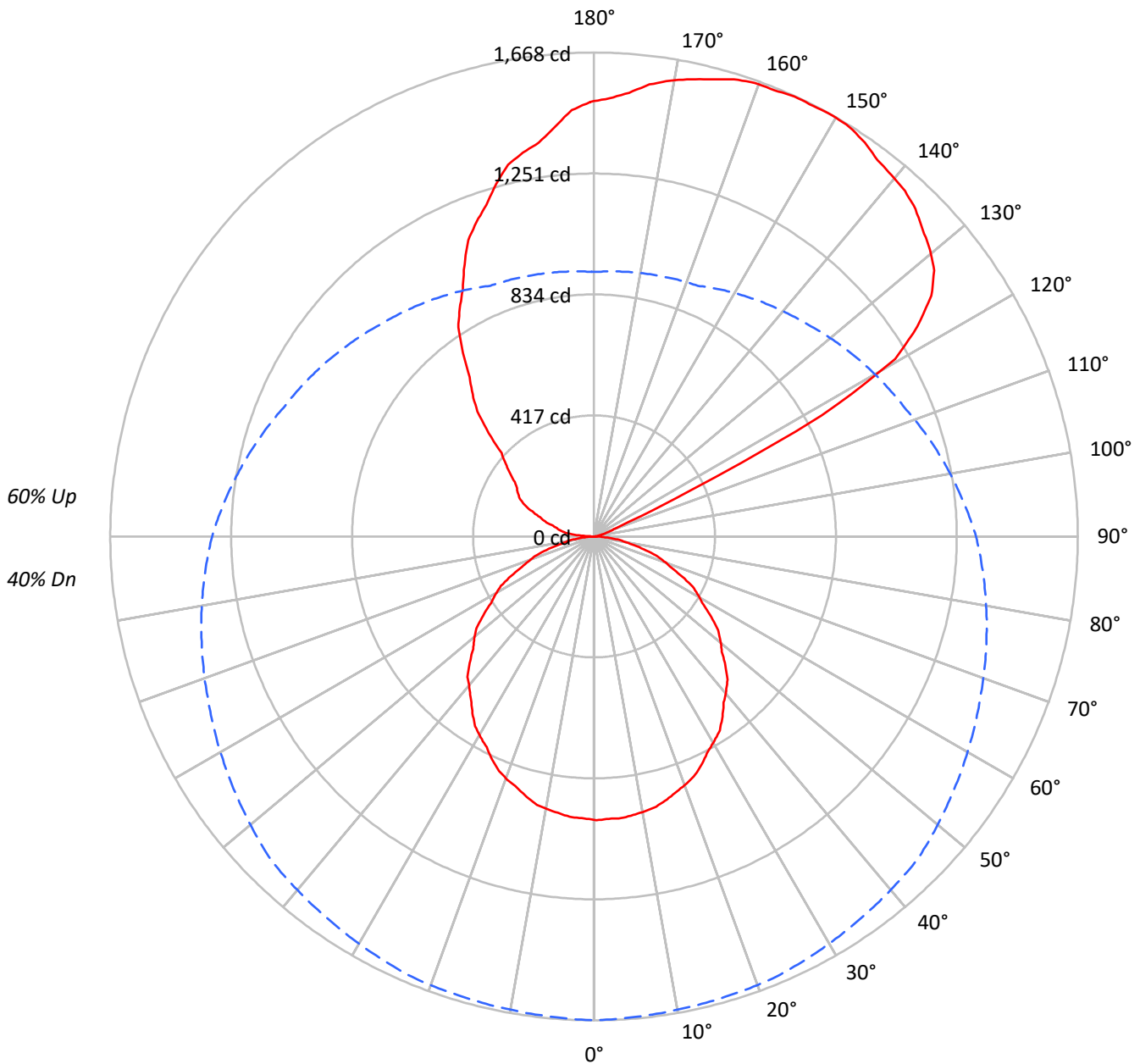
Input Watts (W): 67  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral      - - - Horizontal Cone Through 150° 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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	79	73	68	79	72	67	63	59	55	52	47	45	42	36	34	33	28
3	79	70	62	57	72	64	57	52	52	48	44	42	38	36	32	30	28	23
4	72	61	54	48	65	56	49	44	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	33	28	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	25	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	18	15	13	11
10	45	33	26	21	41	31	24	20	26	21	17	21	17	14	16	14	12	10

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

	0°	90°	180°
0°	15802	15802	15802
5°	15817	15956	15739
10°	15795	15905	15639
15°	15736	15848	15497
20°	15634	15749	15304
25°	15442	15613	15068
30°	15250	15429	14822
35°	15029	15218	14578
40°	14781	15003	14237
45°	14506	14789	13961
50°	14179	14516	13627
55°	13816	14221	13225
60°	13378	13934	12729
65°	12795	13486	12099
70°	12104	12873	11202
75°	11042	11697	10087
80°	9605	10404	8629
85°	7262	8151	6021



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.6	1.3
10°-20°	264.5	3.8
20°-30°	397.9	5.8
30°-40°	475.3	6.9
40°-50°	488.6	7.1
50°-60°	439.8	6.4
60°-70°	334.7	4.8
70°-80°	189.6	2.7
80°-90°	49.9	0.7
90°-100°	39.4	0.6
100°-110°	170.5	2.5
110°-120°	486.2	7.0
120°-130°	739.2	10.7
130°-140°	799.5	11.6
140°-150°	763.9	11.1
150°-160°	628.3	9.1
160°-170°	410.5	5.9
170°-180°	142.0	2.1
0°-30°	755.0	10.9
0°-40°	1230.3	17.8
0°-60°	2158.7	31.2
0°-90°	2732.9	39.5
90°-120°	696.0	10.1
90°-150°	2998.7	43.4
90°-180°	4180.0	60.5
0°-180°	6912.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	979	979	979	979	979	
5°	976	976	984	973	971	93
15°	941	943	948	936	927	266
25°	867	875	876	861	846	399
35°	762	773	772	756	740	477
45°	635	644	648	629	611	490
55°	491	500	505	486	470	439
65°	335	344	353	332	317	332
75°	177	183	188	172	162	188
85°	39	44	44	39	32	47
90°	0	0	0	0	0	1
95°	6	9	27	64	60	8
105°	39	100	197	135	145	46
115°	359	954	492	234	264	493
125°	1429	1258	787	386	332	1256
135°	1582	1432	1035	642	509	1219
145°	1648	1542	1233	913	778	1032
155°	1667	1593	1377	1143	1038	770
165°	1628	1592	1475	1322	1261	463
175°	1533	1537	1511	1456	1416	149
180°	1498	1498	1498	1498	1498	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	978.7	978.7	978.7	978.7	978.7	978.7	978.7	978.7	978.7
2.5°	974.9	977.9	978.0	978.1	985.6	977.4	977.2	977.1	972.6
5°	975.9	975.9	975.9	974.2	984.5	973.3	973.0	971.1	971.1
7.5°	970.3	968.6	969.7	967.7	977.0	964.9	965.5	963.4	963.1
10°	963.4	962.5	964.4	960.8	970.1	958.0	958.6	955.7	953.9
12.5°	955.8	954.8	957.5	952.4	962.5	950.3	950.2	946.6	946.2
15°	941.4	941.4	943.3	939.7	948.1	936.0	935.7	931.8	927.1
17.5°	924.4	922.3	926.9	921.0	929.6	915.9	916.9	911.3	906.0
20°	909.9	907.0	914.6	907.2	916.6	900.7	903.2	894.5	890.7
22.5°	893.0	891.0	899.3	892.6	901.2	886.1	887.1	876.1	873.1
25°	866.8	865.9	875.4	868.0	876.4	860.5	861.1	849.5	845.8
27.5°	837.9	837.2	847.7	840.2	847.5	832.7	833.1	820.4	815.7
30°	818.0	818.0	828.5	821.0	827.6	813.5	813.2	799.7	795.0
32.5°	796.6	795.8	806.3	800.3	806.1	791.4	790.3	777.5	772.9
35°	762.5	762.5	773.0	766.5	772.1	759.0	755.8	743.3	739.6
37.5°	726.5	725.6	736.1	732.0	737.1	723.2	718.9	705.5	704.5
40°	701.3	700.4	710.9	709.0	711.8	698.7	693.6	680.1	675.5
42.5°	675.3	675.8	684.8	683.0	686.6	673.5	668.4	654.2	651.7
45°	635.3	634.3	643.9	643.0	647.7	634.6	628.6	613.2	611.4
47.5°	593.6	593.9	602.4	603.4	606.2	594.2	587.1	571.9	570.0
50°	564.5	566.3	574.0	575.1	577.9	566.6	558.7	544.3	542.5
52.5°	536.2	537.3	545.0	548.2	548.8	539.1	529.6	516.0	514.2
55°	490.8	493.6	500.4	504.2	505.2	496.7	486.0	472.6	469.8
57.5°	444.9	446.8	456.0	460.4	460.6	451.8	441.1	428.5	424.0
60°	414.3	416.1	423.8	430.6	431.5	421.2	410.4	397.9	394.2
62.5°	382.9	384.8	392.5	399.2	400.1	390.6	379.1	366.6	363.6
65°	334.9	336.7	344.4	352.1	353.0	343.7	332.0	319.5	316.7
67.5°	287.8	289.7	297.2	303.5	305.6	295.5	284.7	273.2	269.4
70°	256.4	258.3	265.0	269.9	272.7	263.3	252.6	241.0	237.3
72.5°	223.5	224.6	231.3	236.9	237.5	229.6	219.7	210.4	207.4
75°	177.0	178.9	182.7	188.5	187.5	180.0	172.2	165.4	161.7
77.5°	132.4	134.5	138.2	142.0	142.6	135.6	129.0	122.2	119.6
80°	103.3	106.1	109.1	112.9	111.9	107.3	101.4	94.7	92.8
82.5°	76.5	78.6	82.3	85.3	82.9	79.7	75.4	68.7	66.8
85°	39.2	40.2	44.0	46.8	44.0	43.1	39.2	34.4	32.5
87.5°	8.4	9.9	13.0	16.8	13.8	14.5	11.5	7.6	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.0	2.0	2.0	4.1	6.1	22.0	24.4	21.4	21.4
95°	6.4	6.4	8.9	27.9	26.7	45.4	63.6	59.8	59.8
97.5°	13.0	14.2	20.3	82.7	62.3	60.6	86.0	95.7	97.4
100°	19.1	20.3	30.5	135.1	92.8	79.1	94.1	112.0	115.7
102.5°	26.2	28.4	48.8	212.5	130.5	92.9	107.3	123.2	127.9
105°	39.4	43.1	100.4	356.2	197.1	121.2	134.8	141.2	145.0
107.5°	58.5	73.7	270.6	500.5	279.7	160.1	174.5	173.5	176.7
110°	78.8	109.9	467.9	579.5	340.8	190.3	190.7	200.8	197.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	130.7	218.5	697.8	655.4	401.8	226.5	206.0	228.4	229.6
115°	358.6	615.9	953.6	761.9	492.1	290.7	234.0	255.8	264.5
117.5°	889.0	1071.5	1084.6	856.4	582.1	362.3	266.0	275.7	287.1
120°	1205.4	1242.7	1145.6	914.4	642.1	413.4	292.4	288.9	301.3
122.5°	1329.5	1316.1	1195.5	968.4	701.1	467.4	325.0	305.1	313.6
125°	1429.2	1394.4	1257.5	1043.2	787.1	548.4	386.5	331.9	331.9
127.5°	1488.7	1448.2	1314.5	1109.5	864.6	630.1	460.5	375.3	363.7
130°	1523.3	1479.8	1349.1	1155.4	915.5	683.0	512.4	412.8	394.2
132.5°	1549.7	1510.2	1381.6	1191.4	965.3	734.8	564.3	459.3	428.8
135°	1581.8	1548.2	1431.7	1246.4	1035.0	812.5	642.1	539.7	508.6
137.5°	1602.4	1576.2	1476.7	1291.6	1099.6	889.5	720.7	617.8	589.7
140°	1613.5	1592.4	1499.1	1318.3	1139.3	939.1	775.6	670.8	644.7
142.5°	1624.7	1607.6	1515.4	1348.0	1177.9	988.7	829.5	724.6	696.5
145°	1647.9	1628.0	1542.3	1383.8	1233.4	1058.1	912.9	803.0	778.2
147.5°	1664.1	1640.3	1564.5	1422.3	1285.7	1120.9	989.5	883.4	858.8
150°	1668.2	1643.4	1576.7	1442.8	1317.3	1159.4	1036.3	935.3	911.7
152.5°	1665.2	1646.3	1585.8	1460.3	1343.7	1196.8	1079.0	985.2	963.5
155°	1666.9	1649.5	1593.2	1484.0	1377.0	1249.0	1143.1	1059.9	1037.5
157.5°	1659.3	1647.9	1598.3	1502.1	1407.8	1295.7	1201.8	1131.9	1109.3
160°	1659.3	1641.9	1598.3	1512.5	1429.2	1326.0	1238.4	1175.7	1157.1
162.5°	1648.1	1632.7	1597.3	1519.9	1449.5	1354.3	1273.0	1214.5	1200.8
165°	1627.5	1615.1	1591.9	1529.7	1474.9	1392.9	1322.4	1270.0	1261.3
167.5°	1611.5	1594.4	1581.8	1529.3	1492.2	1420.6	1364.1	1320.7	1315.8
170°	1593.2	1582.0	1571.6	1526.5	1500.4	1440.7	1393.6	1350.2	1345.3
172.5°	1569.8	1563.6	1558.4	1524.6	1505.5	1457.7	1419.0	1379.6	1370.7
175°	1533.4	1538.4	1537.3	1520.5	1510.6	1479.5	1455.9	1427.6	1416.5
177.5°	1511.1	1509.1	1514.1	1511.0	1510.0	1491.1	1484.6	1465.4	1471.4
180°	1497.8	1497.8	1497.8	1497.8	1497.8	1497.8	1497.8	1497.8	1497.8

(END OF REPORT)