

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: P522448

Luminaire Tested: **SQW-F-100U-025D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522448  
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-025D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 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: 5417.7 lumens  
Efficiency: N/A  
Efficacy: 109.4 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: Semi-Indirect

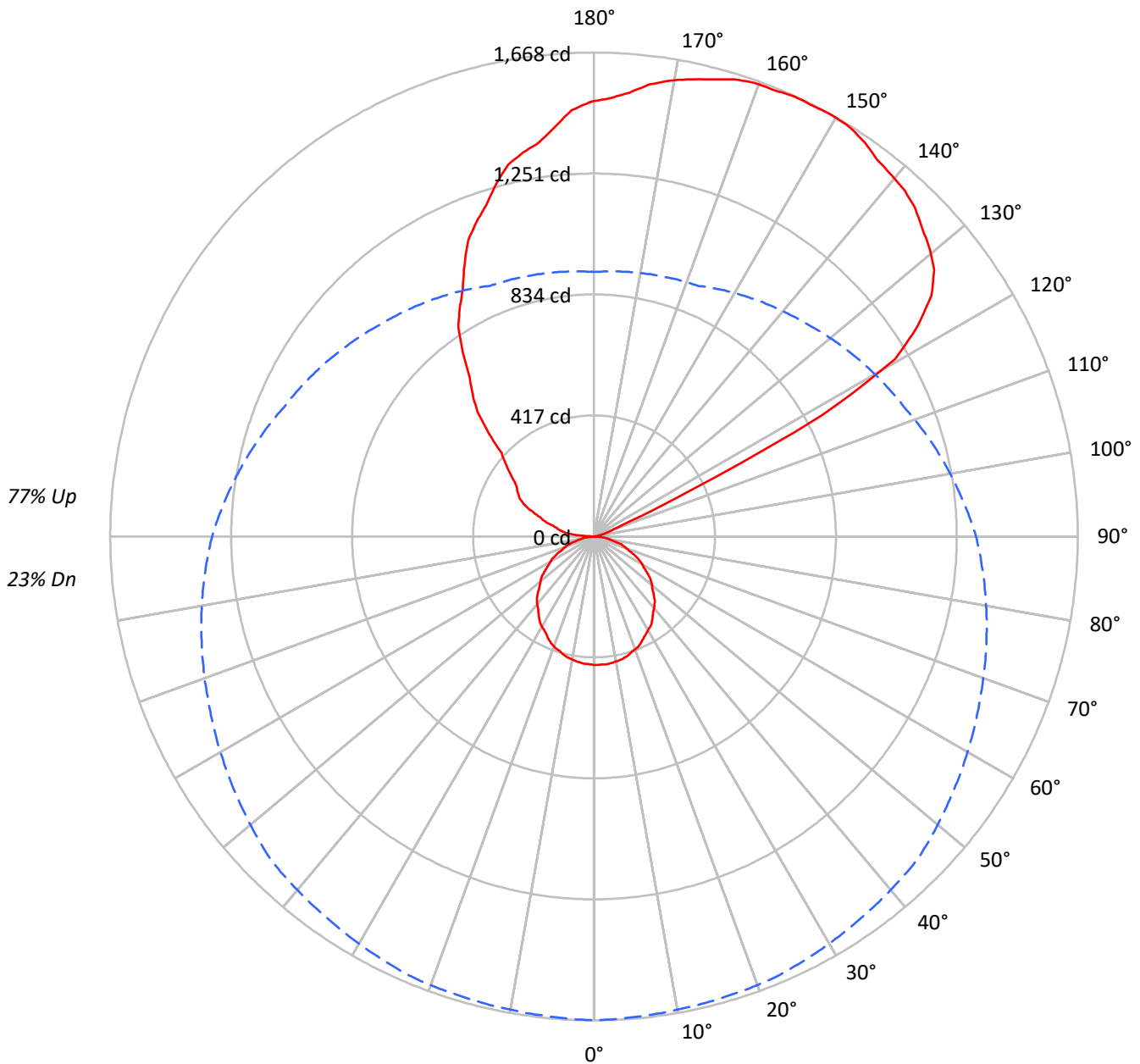
Input Watts (W): 49.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



— 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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	87	84	80	81	78	75	72	60	58	56	43	42	40	27	27	26	19
2	83	76	70	65	74	68	63	59	52	49	46	38	35	34	24	23	22	16
3	76	67	60	54	67	60	54	49	46	42	38	33	30	28	21	20	19	13
4	69	59	51	46	61	53	46	41	41	36	33	29	26	24	19	17	16	11
5	63	52	45	39	56	47	40	35	36	31	28	26	23	21	17	15	14	10
6	58	47	39	33	52	42	35	30	32	28	24	24	20	18	15	13	12	9
7	54	42	34	29	48	38	31	26	29	24	21	21	18	16	14	12	11	8
8	50	38	31	25	44	34	28	23	26	22	19	19	16	14	13	11	9	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	12	12	10	8	6
10	43	31	25	20	38	28	22	18	22	18	15	16	13	11	11	9	8	6

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

	0°	90°	180°
0°	7167	7167	7167
5°	7180	7242	7133
10°	7168	7232	7089
15°	7149	7196	7037
20°	7101	7151	6971
25°	6989	7073	6836
30°	6921	6991	6725
35°	6845	6920	6619
40°	6736	6816	6473
45°	6619	6706	6314
50°	6488	6584	6104
55°	6275	6438	5925
60°	6087	6271	5683
65°	5776	6105	5410
70°	5467	5825	5061
75°	5072	5371	4535
80°	4537	4714	4007
85°	3372	3538	2668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.0	0.8
10°-20°	120.1	2.2
20°-30°	180.5	3.3
30°-40°	215.9	4.0
40°-50°	221.9	4.1
50°-60°	198.3	3.7
60°-70°	150.6	2.8
70°-80°	86.1	1.6
80°-90°	22.8	0.4
90°-100°	39.4	0.7
100°-110°	170.5	3.1
110°-120°	486.2	9.0
120°-130°	739.2	13.6
130°-140°	799.5	14.8
140°-150°	763.9	14.1
150°-160°	628.3	11.6
160°-170°	410.5	7.6
170°-180°	142.0	2.6
0°-30°	342.6	6.3
0°-40°	558.5	10.3
0°-60°	978.7	18.1
0°-90°	1238.2	22.9
90°-120°	696.0	12.8
90°-150°	2998.7	55.3
90°-180°	4180.0	77.2
0°-180°	5417.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	444	444	444	444	444	
5°	443	443	447	442	440	42
15°	428	429	430	425	421	121
25°	392	397	397	390	384	181
35°	347	352	351	344	336	217
45°	290	294	294	285	276	223
55°	223	227	229	217	210	199
65°	151	156	160	148	142	150
75°	81	84	86	78	73	86
85°	18	21	19	17	14	22
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°	443.9	443.9	443.9	443.9	443.9	443.9	443.9	443.9	443.9
2.5°	442.4	443.1	443.9	444.0	447.8	443.3	443.2	442.4	440.9
5°	443.0	443.0	443.0	442.1	446.8	441.2	442.0	440.1	440.1
7.5°	440.3	439.5	439.7	438.7	443.4	437.6	437.6	436.5	436.3
10°	437.2	437.2	438.2	436.4	441.1	434.5	435.3	433.4	432.4
12.5°	434.2	433.4	434.4	432.6	437.2	430.7	430.7	428.0	427.9
15°	427.7	427.7	428.6	426.8	430.5	424.9	424.8	421.9	421.0
17.5°	419.4	419.2	421.3	418.6	422.3	415.8	415.8	413.3	411.8
20°	413.3	412.4	415.2	412.4	416.2	409.6	410.4	405.7	405.7
22.5°	405.7	404.7	408.3	404.8	408.5	402.0	402.8	397.2	396.5
25°	392.3	393.2	397.0	394.2	397.0	390.5	390.4	384.6	383.7
27.5°	381.2	380.4	385.4	381.4	384.2	377.7	377.7	370.8	369.9
30°	371.2	371.2	377.0	372.2	375.0	368.5	369.3	361.6	360.7
32.5°	362.0	362.0	367.0	363.8	365.9	359.3	358.6	351.7	350.7
35°	347.3	347.3	352.1	349.3	351.1	344.6	343.5	335.8	335.8
37.5°	331.0	330.3	334.9	333.0	334.9	328.5	326.2	319.5	318.6
40°	319.6	319.6	323.4	321.5	323.4	317.8	314.8	308.0	307.1
42.5°	307.3	307.3	311.9	310.0	311.9	305.5	302.5	295.8	294.9
45°	289.9	289.9	293.7	292.8	293.7	288.1	285.1	277.4	276.5
47.5°	271.3	270.6	274.2	274.4	275.9	269.7	265.8	258.5	257.6
50°	258.3	258.3	261.2	262.1	262.1	257.5	253.5	243.9	243.0
52.5°	243.0	243.8	246.6	247.6	248.4	242.2	238.2	230.9	230.0
55°	222.9	222.0	226.7	227.7	228.7	223.0	217.2	211.4	210.5
57.5°	202.3	202.1	206.1	207.2	208.0	203.3	197.5	190.9	189.8
60°	188.5	187.5	192.3	194.2	194.2	189.5	183.7	177.9	176.0
62.5°	172.4	174.5	177.8	179.7	181.2	175.8	169.2	164.1	162.3
65°	151.2	152.1	155.9	157.9	159.8	154.2	148.3	143.5	141.6
67.5°	129.5	131.2	134.1	136.1	138.0	132.5	126.7	122.6	120.9
70°	115.8	116.7	119.6	121.5	123.4	118.7	112.9	108.1	107.2
72.5°	102.0	102.9	105.8	107.0	108.1	103.4	98.4	95.1	93.4
75°	81.3	82.3	84.2	85.2	86.1	81.4	77.5	74.6	72.7
77.5°	61.8	61.8	63.7	64.5	64.5	61.7	58.0	55.3	53.8
80°	48.8	48.8	50.7	50.7	50.7	47.9	45.0	43.1	43.1
82.5°	35.8	36.5	38.5	38.4	37.7	35.6	33.5	31.6	31.6
85°	18.2	19.1	21.0	21.0	19.1	19.1	17.2	16.2	14.4
87.5°	4.6	5.3	6.9	7.6	6.1	6.1	4.6	3.1	3.1
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)