

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: P522590

Luminaire Tested: **SQW-F-100U-025D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522590  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-100U-025D-93050-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

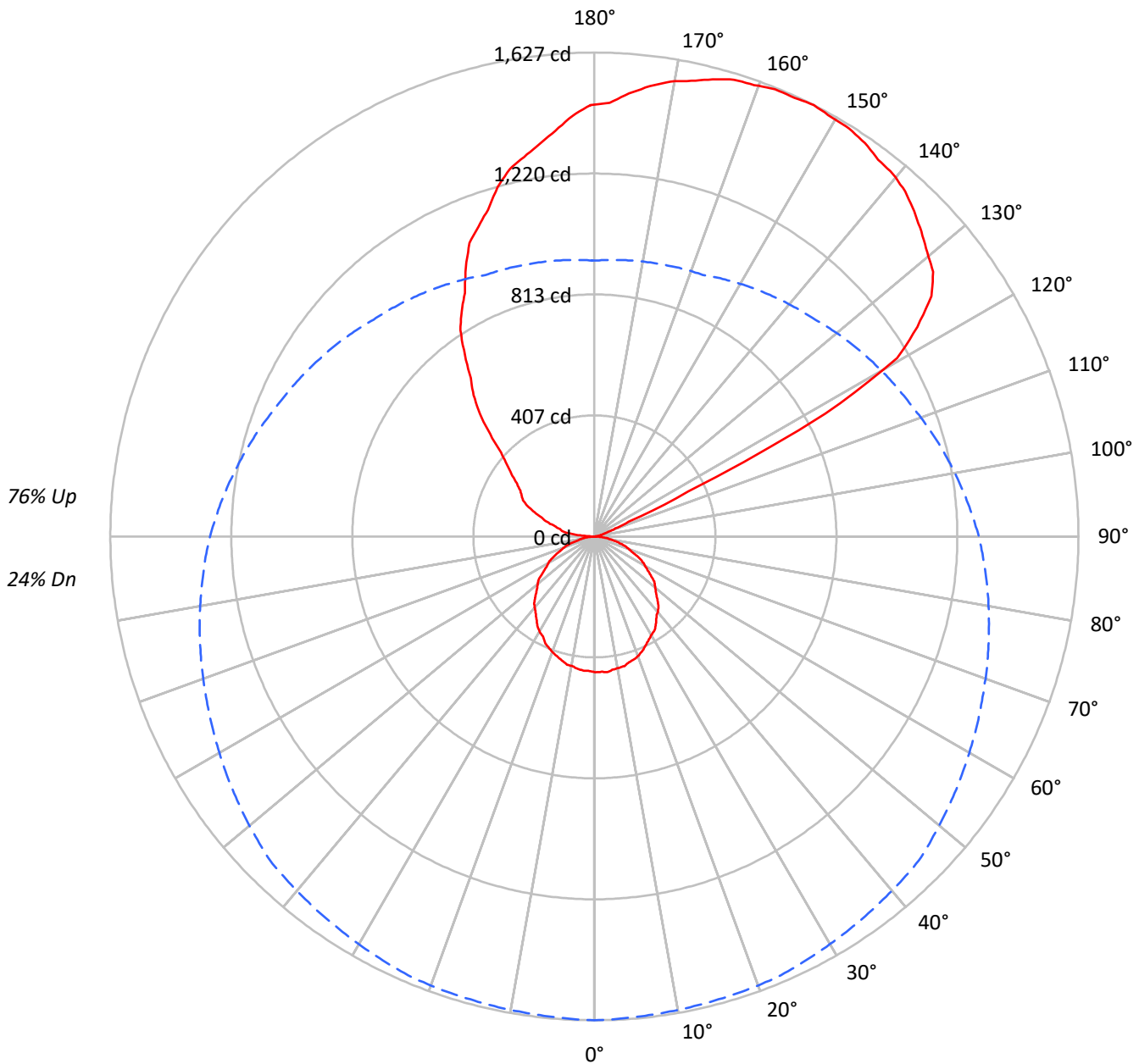
Lumens per Lamp: N/A  
Luminaire Lumens: 5302.3 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 48.9  
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



76% Up  
24% Dn

— Vertical Plane Through 0° Lateral      - - - Horizontal Cone Through 152.5° 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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	88	84	81	82	78	75	72	60	58	56	44	42	41	28	28	27	20
2	84	76	71	66	74	68	63	59	53	49	46	38	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	46	41	41	36	33	30	27	25	20	18	16	12
5	64	53	45	39	56	47	40	35	36	32	28	27	24	21	18	16	14	10
6	58	47	39	34	52	42	35	30	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	29	25	21	22	18	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	27	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

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

	0°	90°	180°
0°	7375	7375	7375
5°	7420	7452	7339
10°	7373	7389	7258
15°	7331	7383	7213
20°	7328	7345	7137
25°	7183	7274	7058
30°	7103	7180	6915
35°	7033	7072	6753
40°	6945	6945	6624
45°	6738	6878	6462
50°	6651	6777	6295
55°	6457	6629	6032
60°	6232	6429	5809
65°	6025	6216	5521
70°	5679	5962	5202
75°	5234	5421	4666
80°	4603	4788	3942
85°	3372	3742	2612



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.2	0.8
10°-20°	123.4	2.3
20°-30°	185.4	3.5
30°-40°	221.3	4.2
40°-50°	227.3	4.3
50°-60°	203.9	3.8
60°-70°	154.4	2.9
70°-80°	88.2	1.7
80°-90°	23.1	0.4
90°-100°	36.6	0.7
100°-110°	162.5	3.1
110°-120°	467.0	8.8
120°-130°	711.3	13.4
130°-140°	772.1	14.6
140°-150°	738.4	13.9
150°-160°	608.3	11.5
160°-170°	398.1	7.5
170°-180°	137.8	2.6
0°-30°	352.0	6.6
0°-40°	573.2	10.8
0°-60°	1004.5	18.9
0°-90°	1270.2	24.0
90°-120°	666.1	12.6
90°-150°	2888.0	54.5
90°-180°	4032.0	76.0
0°-180°	5302.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	457	457	457	457	457	
5°	458	456	460	453	453	43
15°	439	442	442	438	432	124
25°	403	407	408	403	396	186
35°	357	359	359	351	343	223
45°	295	301	301	290	283	229
55°	229	234	236	223	214	205
65°	158	161	163	152	144	155
75°	84	87	87	80	75	89
85°	18	21	20	17	14	22
90°	0	0	0	0	0	1
95°	5	8	26	57	55	7
105°	36	99	187	128	136	42
115°	350	921	470	220	247	484
125°	1391	1211	750	372	316	1221
135°	1533	1388	995	616	491	1184
145°	1605	1494	1187	877	749	1005
155°	1621	1555	1329	1100	1003	750
165°	1587	1547	1425	1280	1218	450
175°	1494	1498	1468	1403	1370	144
180°	1451	1451	1451	1451	1451	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8
2.5°	456.0	456.8	458.4	456.1	459.2	456.1	456.8	455.1	452.8
5°	457.8	455.8	455.8	455.9	459.8	454.9	452.8	451.8	452.8
7.5°	452.2	452.6	452.4	452.1	456.4	448.7	451.8	448.7	449.1
10°	449.7	447.8	450.7	448.8	450.7	447.8	447.7	444.6	442.7
12.5°	447.3	446.1	447.5	444.0	449.9	442.2	441.2	440.6	441.0
15°	438.6	441.6	441.7	438.7	441.7	434.7	437.6	433.5	431.5
17.5°	433.8	430.8	432.2	429.8	433.2	427.4	427.1	422.9	423.5
20°	426.5	423.5	426.5	422.6	427.5	418.6	421.4	416.4	415.4
22.5°	416.8	416.2	420.0	416.8	417.8	412.9	412.5	406.7	405.7
25°	403.2	404.2	407.3	402.4	408.3	400.4	403.2	394.2	396.2
27.5°	391.5	391.7	395.2	392.8	393.9	387.8	388.1	380.4	379.0
30°	381.0	382.0	387.1	383.1	385.1	378.1	380.0	369.9	370.9
32.5°	373.7	371.6	375.8	371.8	375.4	368.4	368.7	361.0	359.6
35°	356.8	356.8	358.8	358.8	358.8	351.9	350.7	343.6	342.6
37.5°	339.2	338.4	345.2	340.0	342.4	336.7	334.5	327.6	326.4
40°	329.5	325.5	331.5	329.5	329.5	324.5	322.4	316.3	314.3
42.5°	315.7	314.9	319.4	318.2	320.6	312.5	310.3	303.4	302.2
45°	295.1	296.1	301.2	299.2	301.2	296.2	290.1	285.0	283.0
47.5°	277.7	276.1	281.0	280.8	282.8	275.3	272.5	264.8	264.4
50°	264.8	264.8	268.8	267.9	269.8	263.9	258.7	252.6	250.6
52.5°	251.9	250.3	255.1	254.9	255.3	250.1	245.0	239.7	238.5
55°	229.4	230.4	234.5	234.5	235.5	230.5	223.4	217.2	214.3
57.5°	208.4	207.8	211.6	212.8	212.8	207.9	201.5	196.4	195.3
60°	193.0	194.0	197.1	199.1	199.1	194.2	187.0	181.9	179.9
62.5°	178.5	178.7	182.5	183.8	185.4	179.6	173.2	168.1	166.1
65°	157.7	156.7	160.7	162.7	162.7	157.8	151.6	146.5	144.5
67.5°	134.0	135.4	138.7	139.9	140.9	135.0	129.0	125.7	124.7
70°	120.3	119.3	123.3	125.3	126.3	120.4	115.2	111.1	110.2
72.5°	105.7	105.5	108.7	110.8	111.0	105.0	100.7	97.4	94.8
75°	83.9	84.9	86.9	86.9	86.9	83.0	79.8	76.8	74.8
77.5°	62.5	63.4	65.3	67.1	66.1	62.5	59.4	56.4	54.6
80°	49.5	50.5	51.5	52.5	51.5	49.6	46.5	43.4	42.4
82.5°	36.6	36.8	39.4	39.6	38.6	36.6	34.4	31.3	31.1
85°	18.2	19.2	21.2	21.2	20.2	19.2	17.2	15.1	14.1
87.5°	4.0	4.8	6.5	8.0	6.5	6.5	4.9	3.2	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	2.2	3.3	5.4	20.2	22.7	20.5	19.5
95°	5.4	5.4	8.1	25.7	25.7	41.5	56.8	55.4	55.4
97.5°	12.2	13.5	18.9	78.2	58.4	56.8	81.1	89.2	90.0
100°	17.6	18.9	29.7	127.5	86.5	73.3	86.5	105.5	109.5
102.5°	24.1	26.4	47.0	201.3	122.2	87.8	101.7	115.3	119.2
105°	36.5	40.5	98.7	337.3	186.6	116.5	128.4	135.2	136.5
107.5°	54.9	69.7	270.1	474.4	264.7	154.2	161.1	165.8	167.4
110°	74.4	106.1	469.1	557.1	323.1	183.0	178.5	190.6	187.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	125.2	218.2	688.7	625.0	381.5	217.1	194.7	214.5	216.0
115°	350.1	601.3	920.7	721.6	470.5	276.2	220.4	239.5	247.4
117.5°	878.8	1045.6	1042.9	811.0	555.9	345.7	251.2	260.3	269.3
120°	1181.6	1206.7	1104.5	871.5	611.1	395.6	277.1	273.3	281.2
122.5°	1294.1	1273.7	1151.0	924.5	667.3	447.6	310.7	287.3	294.2
125°	1391.1	1351.5	1211.3	1000.2	750.3	524.3	371.8	317.7	316.4
127.5°	1444.9	1403.4	1270.3	1065.8	826.6	604.0	441.3	360.7	348.5
130°	1470.9	1432.6	1311.4	1106.1	877.4	658.0	492.1	398.4	379.9
132.5°	1502.3	1460.8	1340.6	1147.4	926.1	708.8	542.9	443.7	422.1
135°	1533.1	1494.7	1388.4	1201.2	995.0	783.5	616.5	518.5	490.7
137.5°	1560.7	1525.5	1432.2	1243.6	1057.2	857.1	694.3	598.9	565.1
140°	1579.0	1540.7	1450.6	1276.2	1095.1	903.4	746.3	651.0	624.6
142.5°	1585.5	1562.0	1470.1	1303.5	1137.2	947.7	798.2	699.7	675.4
145°	1604.7	1588.9	1493.9	1336.4	1187.0	1013.8	877.4	775.4	749.0
147.5°	1617.2	1593.4	1515.8	1371.8	1235.7	1073.1	949.3	851.4	826.8
150°	1618.3	1599.7	1533.1	1393.7	1268.1	1116.1	993.7	901.2	878.8
152.5°	1626.9	1604.2	1541.7	1412.2	1291.9	1152.6	1038.0	952.0	927.4
155°	1621.0	1605.1	1554.7	1436.0	1328.9	1199.4	1100.5	1024.3	1003.1
157.5°	1621.0	1601.4	1556.3	1454.5	1364.6	1251.0	1158.9	1088.5	1072.6
160°	1610.1	1602.2	1557.4	1467.6	1383.0	1279.9	1197.8	1133.8	1112.6
162.5°	1605.8	1592.6	1559.6	1476.4	1399.2	1303.5	1231.3	1170.7	1154.8
165°	1587.2	1575.3	1546.6	1480.4	1424.9	1345.6	1280.3	1226.0	1218.1
167.5°	1565.8	1556.5	1537.7	1486.9	1442.0	1377.2	1322.2	1278.4	1267.6
170°	1550.7	1536.1	1529.0	1490.3	1450.6	1396.4	1349.2	1309.7	1297.8
172.5°	1524.7	1522.8	1517.1	1482.0	1458.2	1413.5	1374.1	1338.0	1330.3
175°	1493.9	1493.9	1497.9	1476.1	1468.2	1431.2	1403.3	1381.4	1369.5
177.5°	1458.2	1459.2	1467.9	1466.9	1467.9	1446.8	1438.7	1418.1	1416.0
180°	1450.6	1450.6	1450.6	1450.6	1450.6	1450.6	1450.6	1450.6	1450.6

(END OF REPORT)