

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: P522589

Luminaire Tested: **SQW-F-100U-025D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522589  
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 (3500K)  
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 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

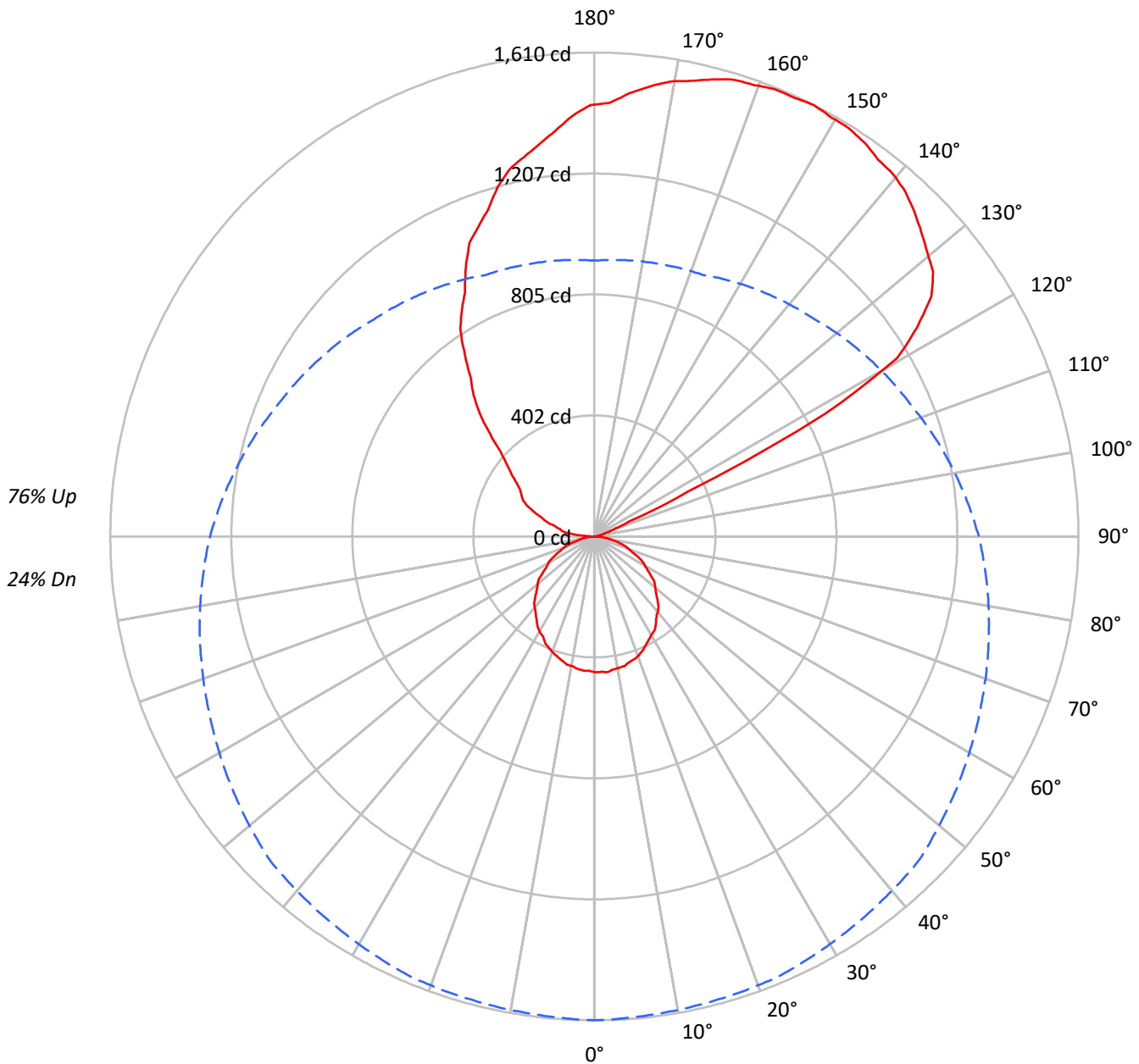
Lumens per Lamp: N/A  
Luminaire Lumens: 5246.5 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

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



— 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°	7298	7298	7298
5°	7342	7374	7261
10°	7296	7312	7181
15°	7254	7305	7137
20°	7251	7268	7062
25°	7108	7197	6983
30°	7029	7103	6842
35°	6958	6997	6682
40°	6871	6871	6555
45°	6667	6804	6393
50°	6581	6707	6229
55°	6390	6559	5968
60°	6168	6361	5748
65°	5960	6151	5463
70°	5618	5901	5146
75°	5178	5365	4616
80°	4556	4742	3905
85°	3335	3705	2594



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	0.8
10°-20°	122.1	2.3
20°-30°	183.4	3.5
30°-40°	218.9	4.2
40°-50°	224.9	4.3
50°-60°	201.8	3.8
60°-70°	152.8	2.9
70°-80°	87.3	1.7
80°-90°	22.9	0.4
90°-100°	36.3	0.7
100°-110°	160.8	3.1
110°-120°	462.1	8.8
120°-130°	703.8	13.4
130°-140°	764.0	14.6
140°-150°	730.6	13.9
150°-160°	601.9	11.5
160°-170°	393.9	7.5
170°-180°	136.3	2.6
0°-30°	348.2	6.6
0°-40°	567.2	10.8
0°-60°	993.9	18.9
0°-90°	1256.8	24.0
90°-120°	659.1	12.6
90°-150°	2857.6	54.5
90°-180°	3990.0	76.1
0°-180°	5246.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	452	452	452	452	452	
5°	453	451	455	448	448	43
15°	434	437	437	433	427	123
25°	399	403	404	399	392	184
35°	353	355	355	347	339	221
45°	292	298	298	287	280	226
55°	227	232	233	221	212	203
65°	156	159	161	150	143	153
75°	83	86	86	79	74	88
85°	18	21	20	17	14	22
90°	0	0	0	0	0	1
95°	5	8	25	56	55	7
105°	36	98	185	127	135	42
115°	346	911	466	218	245	479
125°	1376	1199	742	368	313	1208
135°	1517	1374	984	610	486	1171
145°	1588	1478	1174	868	741	995
155°	1604	1538	1315	1089	993	742
165°	1570	1530	1410	1267	1205	445
175°	1478	1482	1453	1388	1355	143
180°	1435	1435	1435	1435	1435	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0
2.5°	451.2	452.0	453.6	451.3	454.4	451.3	452.0	450.3	448.0
5°	453.0	451.0	451.0	451.1	455.0	450.1	448.0	447.0	448.0
7.5°	447.4	447.8	447.6	447.3	451.6	444.0	447.0	444.0	444.4
10°	445.0	443.0	446.0	444.0	446.0	443.1	443.0	440.0	438.0
12.5°	442.6	441.4	442.8	439.3	445.2	437.6	436.6	436.0	436.4
15°	434.0	436.9	437.0	434.1	437.0	430.2	433.0	429.0	427.0
17.5°	429.2	426.3	427.6	425.3	428.6	422.9	422.6	418.4	419.0
20°	422.0	419.1	422.0	418.1	423.0	414.2	417.0	412.0	411.0
22.5°	412.4	411.8	415.6	412.4	413.4	408.5	408.2	402.4	401.4
25°	399.0	400.0	403.0	398.1	404.0	396.2	399.0	390.0	392.0
27.5°	387.4	387.6	391.0	388.6	389.8	383.7	384.0	376.4	375.0
30°	377.0	378.0	383.0	379.0	381.0	374.2	376.0	366.0	367.0
32.5°	369.8	367.6	371.8	367.9	371.4	364.6	364.8	357.2	355.8
35°	353.0	353.0	355.0	355.0	355.0	348.2	347.0	340.0	339.0
37.5°	335.6	334.8	341.6	336.5	338.8	333.1	331.0	324.2	323.0
40°	326.0	322.1	328.0	326.0	326.0	321.1	319.0	313.0	311.0
42.5°	312.4	311.6	316.0	314.9	317.2	309.2	307.0	300.2	299.0
45°	292.0	293.0	298.0	296.0	298.0	293.1	287.0	282.0	280.0
47.5°	274.8	273.2	278.0	277.8	279.8	272.4	269.6	262.0	261.6
50°	262.0	262.0	266.0	265.0	267.0	261.1	256.0	250.0	248.0
52.5°	249.2	247.6	252.4	252.2	252.6	247.5	242.4	237.2	236.0
55°	227.0	228.0	232.0	232.0	233.0	228.1	221.0	214.9	212.0
57.5°	206.2	205.6	209.4	210.6	210.6	205.7	199.4	194.4	193.2
60°	191.0	192.0	195.0	197.0	197.0	192.1	185.0	180.0	178.0
62.5°	176.6	176.8	180.6	181.8	183.4	177.7	171.4	166.4	164.4
65°	156.0	155.0	159.0	161.0	161.0	156.1	150.0	145.0	143.0
67.5°	132.6	134.0	137.2	138.4	139.4	133.5	127.6	124.4	123.4
70°	119.0	118.0	122.0	124.0	125.0	119.1	114.0	110.0	109.0
72.5°	104.6	104.4	107.6	109.6	109.8	103.9	99.6	96.3	93.8
75°	83.0	84.0	86.0	86.0	86.0	82.1	79.0	76.0	74.0
77.5°	61.8	62.8	64.6	66.4	65.4	61.9	58.8	55.8	54.0
80°	49.0	50.0	51.0	52.0	51.0	49.0	46.0	43.0	42.0
82.5°	36.2	36.4	39.0	39.2	38.2	36.2	34.0	31.0	30.8
85°	18.0	19.0	21.0	21.0	20.0	19.0	17.0	15.0	14.0
87.5°	4.0	4.8	6.4	8.0	6.4	6.4	4.8	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	2.1	3.3	5.4	20.0	22.5	20.3	19.3
95°	5.4	5.4	8.0	25.4	25.4	41.1	56.2	54.8	54.8
97.5°	12.0	13.3	18.7	77.4	57.8	56.2	80.3	88.3	89.1
100°	17.4	18.7	29.4	126.2	85.6	72.5	85.6	104.4	108.4
102.5°	23.8	26.2	46.6	199.1	120.9	86.9	100.6	114.1	118.0
105°	36.1	40.0	97.7	333.7	184.6	115.3	127.1	133.8	135.1
107.5°	54.3	69.0	267.3	469.4	261.9	152.6	159.5	164.0	165.6
110°	73.6	105.0	464.2	551.2	319.7	181.1	176.6	188.6	185.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	123.9	216.0	681.4	618.4	377.5	214.8	192.6	212.2	213.8
115°	346.5	595.0	911.0	714.0	465.5	273.2	218.0	236.9	244.8
117.5°	869.5	1034.6	1031.9	802.5	550.1	342.1	248.5	257.6	266.5
120°	1169.1	1194.0	1092.9	862.3	604.6	391.4	274.2	270.4	278.2
122.5°	1280.4	1260.3	1138.9	914.8	660.3	442.9	307.4	284.3	291.1
125°	1376.5	1337.2	1198.6	989.6	742.4	518.8	367.9	314.3	313.0
127.5°	1429.7	1388.7	1256.9	1054.6	817.9	597.6	436.6	356.9	344.9
130°	1455.4	1417.5	1297.6	1094.4	868.2	651.0	486.9	394.2	375.9
132.5°	1486.4	1445.4	1326.5	1135.3	916.3	701.3	537.2	439.1	417.6
135°	1516.9	1479.0	1373.8	1188.6	984.5	775.3	610.0	513.0	485.6
137.5°	1544.2	1509.4	1417.1	1230.5	1046.1	848.0	687.0	592.6	559.2
140°	1562.4	1524.5	1435.3	1262.7	1083.5	893.9	738.4	644.2	618.0
142.5°	1568.8	1545.6	1454.6	1289.8	1125.3	937.7	789.8	692.4	668.3
145°	1587.8	1572.1	1478.1	1322.3	1174.5	1003.1	868.2	767.2	741.1
147.5°	1600.1	1576.6	1499.8	1357.4	1222.6	1061.8	939.3	842.5	818.1
150°	1601.2	1582.9	1516.9	1379.0	1254.8	1104.3	983.2	891.7	869.5
152.5°	1609.8	1587.3	1525.5	1397.3	1278.3	1140.4	1027.1	942.0	917.7
155°	1603.9	1588.2	1538.3	1420.9	1314.9	1186.8	1088.9	1013.5	992.6
157.5°	1603.9	1584.5	1539.9	1439.2	1350.3	1237.8	1146.7	1077.0	1061.3
160°	1593.2	1585.3	1541.0	1452.2	1368.5	1266.4	1185.2	1121.8	1100.9
162.5°	1588.9	1575.8	1543.2	1460.9	1384.5	1289.8	1218.4	1158.3	1142.7
165°	1570.4	1558.7	1530.3	1464.9	1409.9	1331.4	1266.8	1213.1	1205.3
167.5°	1549.3	1540.2	1521.5	1471.2	1426.8	1362.7	1308.3	1264.9	1254.2
170°	1534.3	1519.9	1512.9	1474.6	1435.3	1381.7	1335.0	1296.0	1284.2
172.5°	1508.6	1506.8	1501.2	1466.4	1442.8	1398.6	1359.6	1323.9	1316.3
175°	1478.1	1478.1	1482.2	1460.6	1452.7	1416.1	1388.5	1366.9	1355.1
177.5°	1442.8	1443.9	1452.5	1451.4	1452.5	1431.5	1423.6	1403.2	1401.1
180°	1435.3	1435.3	1435.3	1435.3	1435.3	1435.3	1435.3	1435.3	1435.3

(END OF REPORT)