

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: P522594

Luminaire Tested: **SQW-F-100U-050D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522594  
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-050D-93050-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 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: 6013.3 lumens  
Efficiency: N/A  
Efficacy: 107.6 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

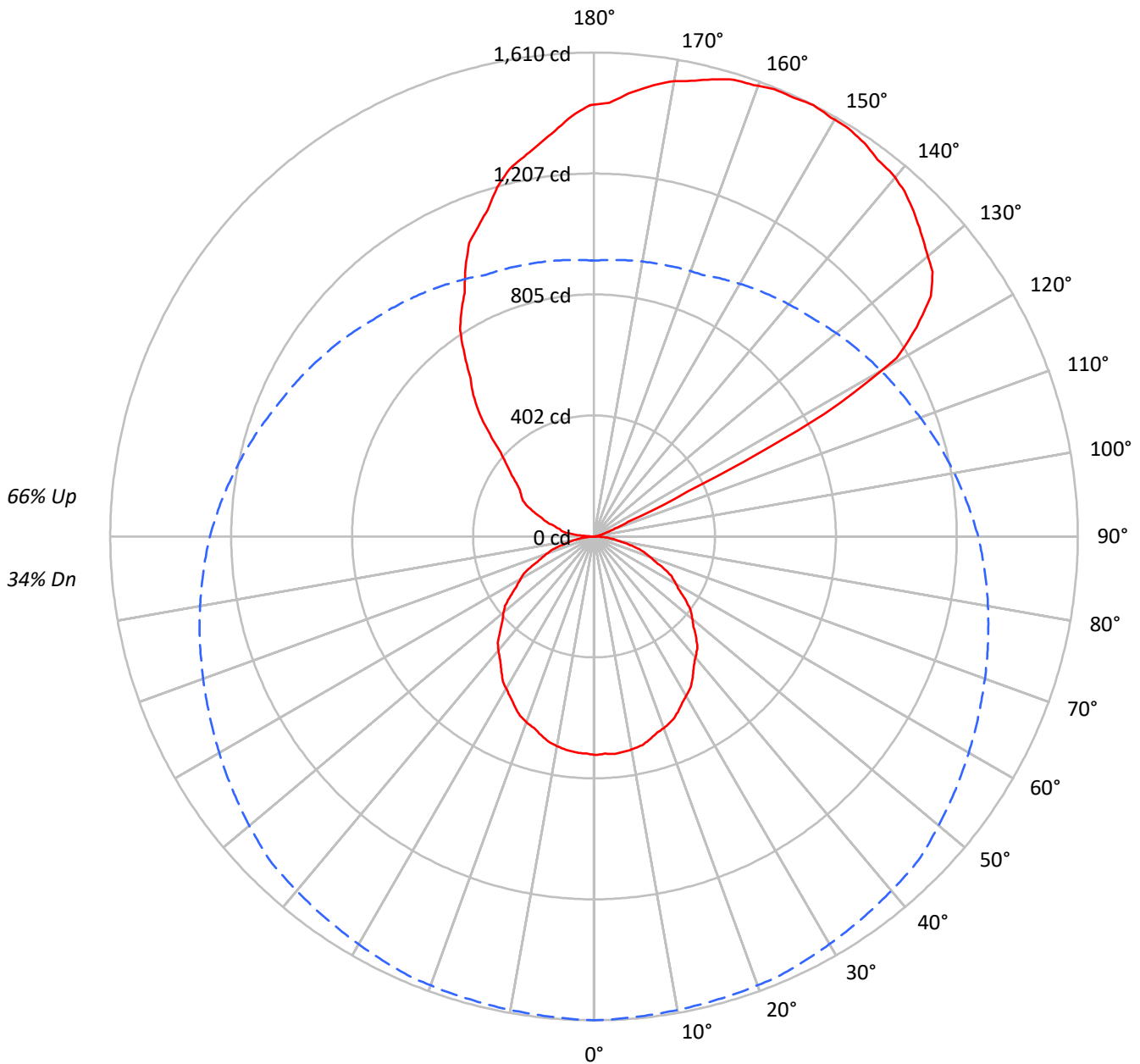
Input Watts (W): 55.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	94	90	86	83	85	81	78	75	65	63	61	50	49	47	36	35	35	28
2	86	78	72	67	77	71	66	61	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	39	36	33	28	26	25	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	30	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	26	28	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	26	46	36	29	24	29	24	20	23	19	16	17	14	13	10
9	48	36	28	23	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

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

	0°	90°	180°
0°	11738	11738	11738
5°	11783	11831	11702
10°	11788	11837	11640
15°	11701	11818	11483
20°	11632	11684	11340
25°	11544	11544	11206
30°	11373	11466	10962
35°	11176	11314	10722
40°	11002	11129	10517
45°	10846	10960	10207
50°	10625	10776	9972
55°	10331	10528	9627
60°	10010	10301	9203
65°	9666	10048	8749
70°	9158	9441	8025
75°	8484	8546	7236
80°	7531	7624	5858
85°	5928	5743	4076



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.8	1.1
10°-20°	196.5	3.3
20°-30°	295.6	4.9
30°-40°	352.8	5.9
40°-50°	362.2	6.0
50°-60°	325.6	5.4
60°-70°	246.8	4.1
70°-80°	139.2	2.3
80°-90°	36.1	0.6
90°-100°	36.3	0.6
100°-110°	160.8	2.7
110°-120°	462.1	7.7
120°-130°	703.8	11.7
130°-140°	764.0	12.7
140°-150°	730.6	12.1
150°-160°	601.9	10.0
160°-170°	393.9	6.5
170°-180°	136.3	2.3
0°-30°	560.9	9.3
0°-40°	913.7	15.2
0°-60°	1601.5	26.6
0°-90°	2023.7	33.7
90°-120°	659.1	11.0
90°-150°	2857.6	47.5
90°-180°	3990.0	66.4
0°-180°	6013.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	727	727	727	727	727	
5°	727	726	730	725	722	69
15°	700	703	707	691	687	197
25°	648	650	648	639	629	298
35°	567	576	574	559	544	355
45°	475	481	480	462	447	366
55°	367	374	374	356	342	328
65°	253	260	263	240	229	249
75°	136	138	137	124	116	144
85°	32	35	31	26	22	37
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°	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0
2.5°	723.8	726.9	726.2	725.6	732.6	726.3	727.0	726.1	723.0
5°	727.0	725.0	726.0	725.1	730.0	724.1	725.0	722.0	722.0
7.5°	723.8	720.7	721.6	720.9	725.2	718.6	717.4	713.7	717.2
10°	719.0	715.1	716.0	716.1	722.0	712.2	711.0	708.0	710.0
12.5°	712.6	710.3	710.4	709.0	717.2	704.3	703.8	701.6	702.0
15°	700.0	702.9	703.0	696.2	707.0	691.4	691.0	690.9	687.0
17.5°	685.0	689.1	692.6	684.0	691.2	678.1	677.8	674.3	669.6
20°	677.0	678.0	683.0	675.1	680.0	669.2	669.0	660.0	660.0
22.5°	665.8	666.0	671.8	663.1	668.0	657.2	657.8	647.2	648.0
25°	648.0	647.0	650.0	644.1	648.0	638.2	639.0	628.0	629.0
27.5°	626.0	627.2	631.8	622.7	628.6	616.7	617.0	607.0	605.6
30°	610.0	612.0	619.0	609.1	615.0	602.3	601.0	590.9	588.0
32.5°	593.2	595.2	602.2	594.7	599.8	587.9	585.0	573.4	571.2
35°	567.0	569.0	576.0	572.0	574.0	562.3	559.0	546.9	544.0
37.5°	540.4	542.4	548.2	545.4	547.2	534.9	530.2	519.6	517.4
40°	522.0	524.0	529.0	527.0	528.0	517.2	511.0	501.9	499.0
42.5°	504.4	505.6	509.8	506.3	508.8	498.8	491.8	482.7	478.2
45°	475.0	475.0	481.0	477.1	480.0	470.2	462.0	451.9	447.0
47.5°	444.6	442.8	449.8	448.4	449.8	439.2	431.0	420.5	417.0
50°	423.0	422.0	429.0	430.0	429.0	419.2	411.0	399.0	397.0
52.5°	399.8	401.2	406.6	407.6	407.4	397.6	388.6	377.4	375.4
55°	367.0	369.0	374.0	375.0	374.0	365.2	356.0	344.0	342.0
57.5°	332.4	337.1	341.4	342.4	343.0	333.6	322.2	313.1	309.0
60°	310.0	313.9	319.0	320.0	319.0	311.2	299.0	289.9	285.0
62.5°	287.6	289.9	295.0	297.5	295.0	287.2	275.0	266.8	265.0
65°	253.0	255.0	260.0	262.0	263.0	252.2	240.0	232.9	229.0
67.5°	215.6	217.9	220.8	223.6	224.8	213.5	203.4	195.9	191.6
70°	194.0	194.0	196.0	198.0	200.0	190.2	181.0	172.0	170.0
72.5°	170.8	170.8	173.6	174.8	175.2	166.2	157.8	149.6	149.2
75°	136.0	136.0	138.0	139.0	137.0	131.1	124.0	117.0	116.0
77.5°	103.4	102.8	104.6	105.4	104.4	97.8	90.8	86.0	84.6
80°	81.0	82.0	83.0	83.0	82.0	76.1	70.0	65.9	63.0
82.5°	60.2	61.2	63.0	62.9	60.4	56.9	51.6	46.8	46.2
85°	32.0	32.0	35.0	33.9	31.0	29.0	26.0	22.0	22.0
87.5°	8.0	8.8	10.4	12.7	8.8	9.6	5.6	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)