

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: P522358

Luminaire Tested: **SQW-F-050U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522358  
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-050U-100D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

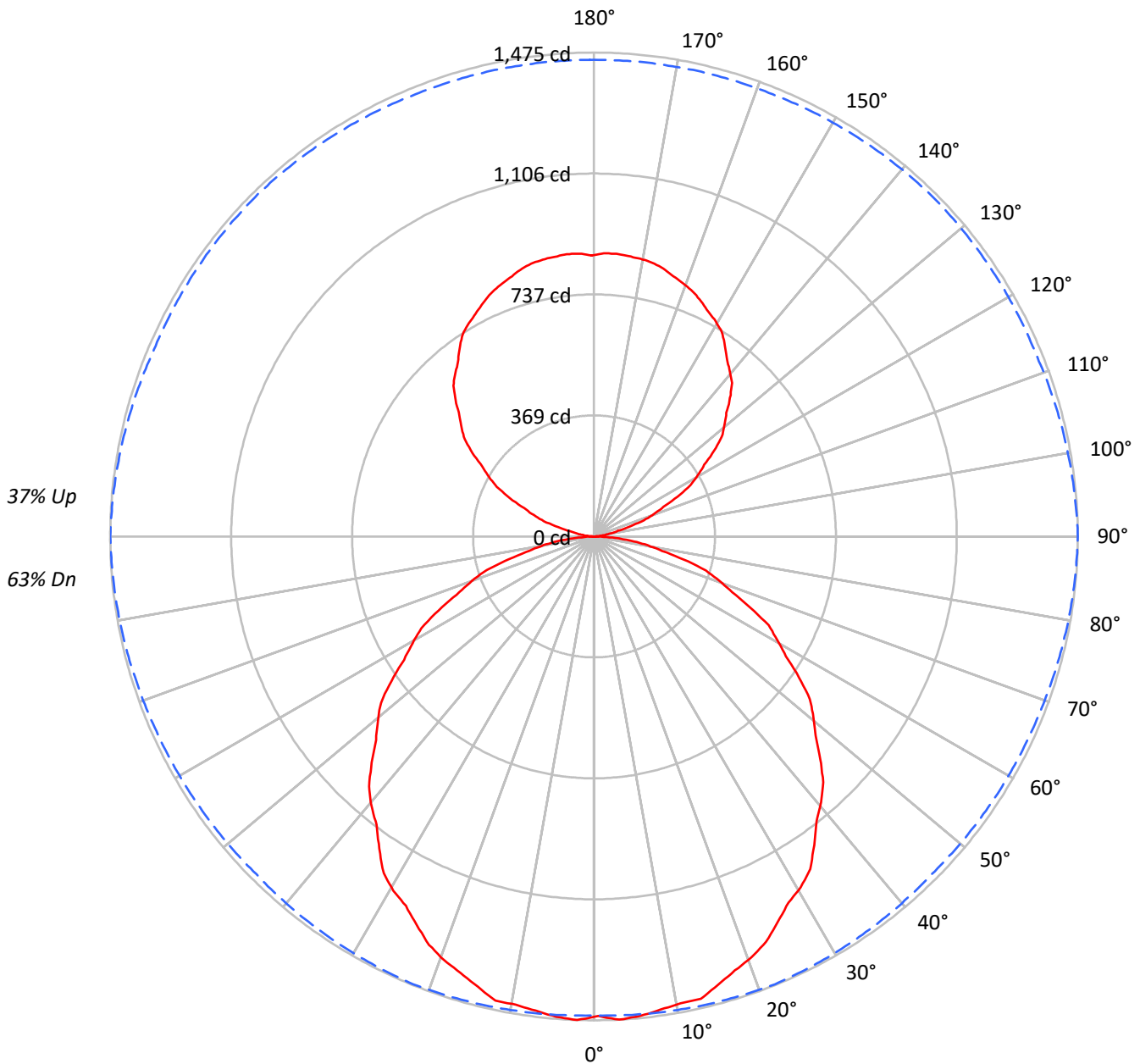
Lumens per Lamp: N/A  
Luminaire Lumens: 6476.7 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 62  
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 90° Lateral      - - - Horizontal Cone Through 2.5° 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	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68	63
1	101	96	92	88	94	90	87	84	79	77	74	69	67	65	60	59	57	53
2	91	84	77	72	85	79	73	68	69	65	61	61	57	54	53	50	48	44
3	83	73	66	60	78	69	62	57	61	56	51	53	49	46	46	43	41	37
4	76	65	57	50	71	61	54	48	54	48	44	48	43	39	41	38	35	32
5	70	58	49	43	65	55	47	41	48	42	38	43	38	34	37	33	30	27
6	64	52	44	37	60	49	41	36	44	37	33	38	33	30	34	30	27	24
7	60	47	39	33	56	44	37	32	40	33	29	35	30	26	31	27	24	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	25	21	26	22	19	17
10	48	36	28	23	45	34	27	22	30	25	21	27	22	19	24	20	17	15

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

	0°	90°	180°
0°	23608	23608	23608
5°	23887	23801	23439
10°	23641	23728	23397
15°	23731	23696	23253
20°	23172	23536	22716
25°	23138	23193	22344
30°	22848	23146	22117
35°	22316	22775	21731
40°	22095	22476	21290
45°	21877	22071	20909
50°	21110	21775	20308
55°	20909	21357	19595
60°	19976	20728	18881
65°	19095	20065	17918
70°	18231	19133	16730
75°	16943	17604	15090
80°	14505	15388	12627
85°	10819	11986	8651



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.4	2.1
10°-20°	395.8	6.1
20°-30°	594.1	9.2
30°-40°	710.2	11.0
40°-50°	730.9	11.3
50°-60°	658.0	10.2
60°-70°	499.7	7.7
70°-80°	285.1	4.4
80°-90°	74.6	1.2
90°-100°	22.5	0.3
100°-110°	97.5	1.5
110°-120°	278.0	4.3
120°-130°	422.7	6.5
130°-140°	457.2	7.1
140°-150°	436.8	6.7
150°-160°	359.3	5.5
160°-170°	234.8	3.6
170°-180°	81.2	1.3
0°-30°	1128.3	17.4
0°-40°	1838.5	28.4
0°-60°	3227.4	49.8
0°-90°	4086.8	63.1
90°-120°	398.0	6.1
90°-150°	1714.7	26.5
90°-180°	2390.0	36.9
0°-180°	6476.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1462	1462	1462	1462	1462	
5°	1474	1462	1468	1443	1446	139
15°	1420	1411	1418	1397	1391	397
25°	1299	1306	1302	1288	1254	597
35°	1132	1160	1156	1130	1102	713
45°	958	966	967	945	916	732
55°	743	756	759	728	696	657
65°	500	514	525	489	469	497
75°	272	279	282	258	242	284
85°	58	67	65	58	47	70
90°	0	0	0	0	0	2
95°	4	5	15	36	34	5
105°	22	57	113	77	83	26
115°	205	545	281	134	151	282
125°	817	719	450	221	190	718
135°	904	819	592	367	291	697
145°	942	882	705	522	445	590
155°	953	911	787	654	593	440
165°	931	910	843	756	721	265
175°	877	879	864	832	810	85
180°	856	856	856	856	856	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2
2.5°	1460.5	1472.1	1456.2	1460.8	1474.9	1457.5	1462.2	1453.6	1452.8
5°	1473.8	1456.2	1462.2	1454.0	1468.5	1455.0	1443.1	1458.7	1446.2
7.5°	1448.8	1437.4	1460.7	1449.0	1456.6	1447.5	1448.8	1440.1	1439.9
10°	1442.0	1434.7	1442.0	1442.1	1447.3	1434.9	1433.5	1424.0	1427.1
12.5°	1422.5	1432.6	1421.6	1435.5	1446.5	1424.9	1416.5	1419.8	1425.4
15°	1419.7	1416.6	1411.2	1407.2	1417.6	1392.7	1397.4	1388.0	1391.1
17.5°	1376.6	1382.4	1385.1	1381.7	1391.1	1368.4	1363.1	1363.1	1364.5
20°	1348.6	1361.1	1369.8	1360.5	1369.8	1352.2	1348.6	1335.6	1322.1
22.5°	1333.3	1330.9	1348.6	1330.0	1342.7	1320.9	1330.8	1308.0	1315.3
25°	1298.8	1288.4	1306.2	1295.7	1301.9	1284.3	1288.1	1260.4	1254.2
27.5°	1252.7	1252.7	1263.5	1259.2	1263.5	1249.4	1245.5	1220.2	1217.7
30°	1225.5	1217.2	1237.2	1228.0	1241.5	1208.3	1210.7	1190.4	1186.3
32.5°	1189.0	1192.4	1205.8	1194.1	1210.0	1178.5	1184.4	1153.3	1158.3
35°	1132.2	1138.4	1159.8	1144.1	1155.5	1136.8	1130.0	1109.7	1102.5
37.5°	1095.9	1086.3	1096.7	1097.7	1101.2	1080.6	1073.2	1048.6	1050.9
40°	1048.3	1046.3	1061.1	1065.3	1066.4	1046.7	1040.9	1011.2	1010.1
42.5°	1005.0	1007.1	1019.5	1024.6	1024.8	1005.1	1004.4	972.2	976.2
45°	958.1	955.0	965.6	964.6	966.6	945.9	945.4	914.7	915.7
47.5°	884.5	891.1	898.3	900.4	908.5	890.9	878.4	853.9	850.1
50°	840.4	852.8	854.2	863.8	866.9	845.1	835.1	814.8	808.5
52.5°	801.3	808.0	813.4	819.7	824.5	804.3	789.2	769.9	768.6
55°	742.8	738.6	755.5	753.5	758.7	743.1	727.9	706.4	696.1
57.5°	667.0	675.1	678.9	686.8	690.3	673.3	660.0	637.3	636.4
60°	618.6	630.0	631.3	645.1	641.9	627.4	613.3	593.0	584.7
62.5°	574.5	577.6	586.3	595.9	597.0	580.8	570.0	548.0	542.2
65°	499.8	506.0	513.6	526.3	525.2	513.8	489.2	477.3	469.0
67.5°	432.1	434.1	444.4	450.4	454.6	438.8	424.6	408.0	404.5
70°	386.2	384.2	396.8	401.2	405.3	392.9	378.8	363.7	354.4
72.5°	336.1	338.2	347.6	354.5	356.9	344.5	329.6	318.0	312.0
75°	271.6	269.6	279.1	283.3	282.2	272.9	257.8	250.2	241.9
77.5°	200.1	204.3	209.9	213.7	212.2	206.0	194.2	182.6	179.1
80°	156.0	160.1	166.6	168.6	165.5	159.3	151.7	141.0	135.8
82.5°	115.2	117.7	124.1	127.9	123.1	119.3	112.7	104.5	98.5
85°	58.4	60.4	66.8	68.9	64.7	64.7	58.4	50.8	46.7
87.5°	13.6	14.4	19.5	25.4	20.4	22.0	17.0	12.7	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.2	1.2	1.2	2.4	3.5	12.6	14.0	12.2	12.2
95°	3.6	3.6	5.1	16.0	15.3	25.9	36.4	34.2	34.2
97.5°	7.4	8.1	11.6	47.3	35.6	34.6	49.1	54.7	55.7
100°	10.9	11.6	17.4	77.2	53.1	45.3	53.8	64.0	66.2
102.5°	15.0	16.3	27.9	121.5	74.6	53.1	61.4	70.4	73.1
105°	22.5	24.7	57.4	203.7	112.7	69.3	77.1	80.8	82.9
107.5°	33.4	42.1	154.7	286.2	160.0	91.6	99.8	99.2	101.1
110°	45.1	62.9	267.6	331.3	194.9	108.8	109.1	114.8	112.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	74.7	124.9	399.0	374.8	229.8	129.5	117.8	130.6	131.3
115°	205.0	352.2	545.3	435.6	281.4	166.2	133.8	146.3	151.2
117.5°	508.4	612.7	620.2	489.7	332.8	207.2	152.1	157.6	164.2
120°	689.3	710.6	655.1	522.9	367.2	236.4	167.2	165.2	172.3
122.5°	760.2	752.5	683.6	553.7	400.9	267.3	185.8	174.5	179.3
125°	817.2	797.3	719.1	596.5	450.1	313.6	221.0	189.8	189.8
127.5°	851.2	828.1	751.6	634.5	494.4	360.3	263.3	214.6	207.9
130°	871.0	846.1	771.4	660.7	523.5	390.5	293.0	236.1	225.4
132.5°	886.1	863.5	790.0	681.2	552.0	420.2	322.7	262.7	245.2
135°	904.5	885.3	818.7	712.7	591.8	464.6	367.2	308.6	290.8
137.5°	916.2	901.3	844.4	738.5	628.8	508.6	412.1	353.3	337.2
140°	922.6	910.6	857.2	753.8	651.4	537.0	443.5	383.6	368.6
142.5°	929.0	919.2	866.5	770.8	673.6	565.4	474.3	414.4	398.3
145°	942.3	930.9	881.9	791.3	705.3	605.0	522.0	459.2	445.0
147.5°	951.6	937.9	894.6	813.3	735.2	640.9	565.8	505.1	491.1
150°	953.9	939.7	901.6	825.0	753.2	663.0	592.6	534.8	521.3
152.5°	952.2	941.4	906.8	835.0	768.4	684.3	617.0	563.3	551.0
155°	953.2	943.2	911.0	848.5	787.4	714.2	653.6	606.1	593.3
157.5°	948.8	942.3	913.9	858.9	805.0	740.9	687.2	647.2	634.3
160°	948.8	938.9	913.9	864.9	817.2	758.2	708.2	672.3	661.6
162.5°	942.4	933.6	913.3	869.1	828.9	774.4	727.9	694.5	686.6
165°	930.6	923.5	910.3	874.7	843.4	796.5	756.1	726.2	721.2
167.5°	921.5	911.7	904.5	874.5	853.3	812.3	780.0	755.2	752.4
170°	911.0	904.6	898.7	872.9	857.9	823.8	796.9	772.1	769.2
172.5°	897.6	894.1	891.1	871.8	860.8	833.5	811.4	788.9	783.8
175°	876.8	879.7	879.0	869.4	863.8	846.0	832.5	816.3	809.9
177.5°	864.0	862.9	865.8	864.0	863.5	852.7	848.9	837.9	841.4
180°	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5

(END OF REPORT)