

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: P522352

Luminaire Tested: **SQW-F-050U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522352  
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 (2700K)  
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 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

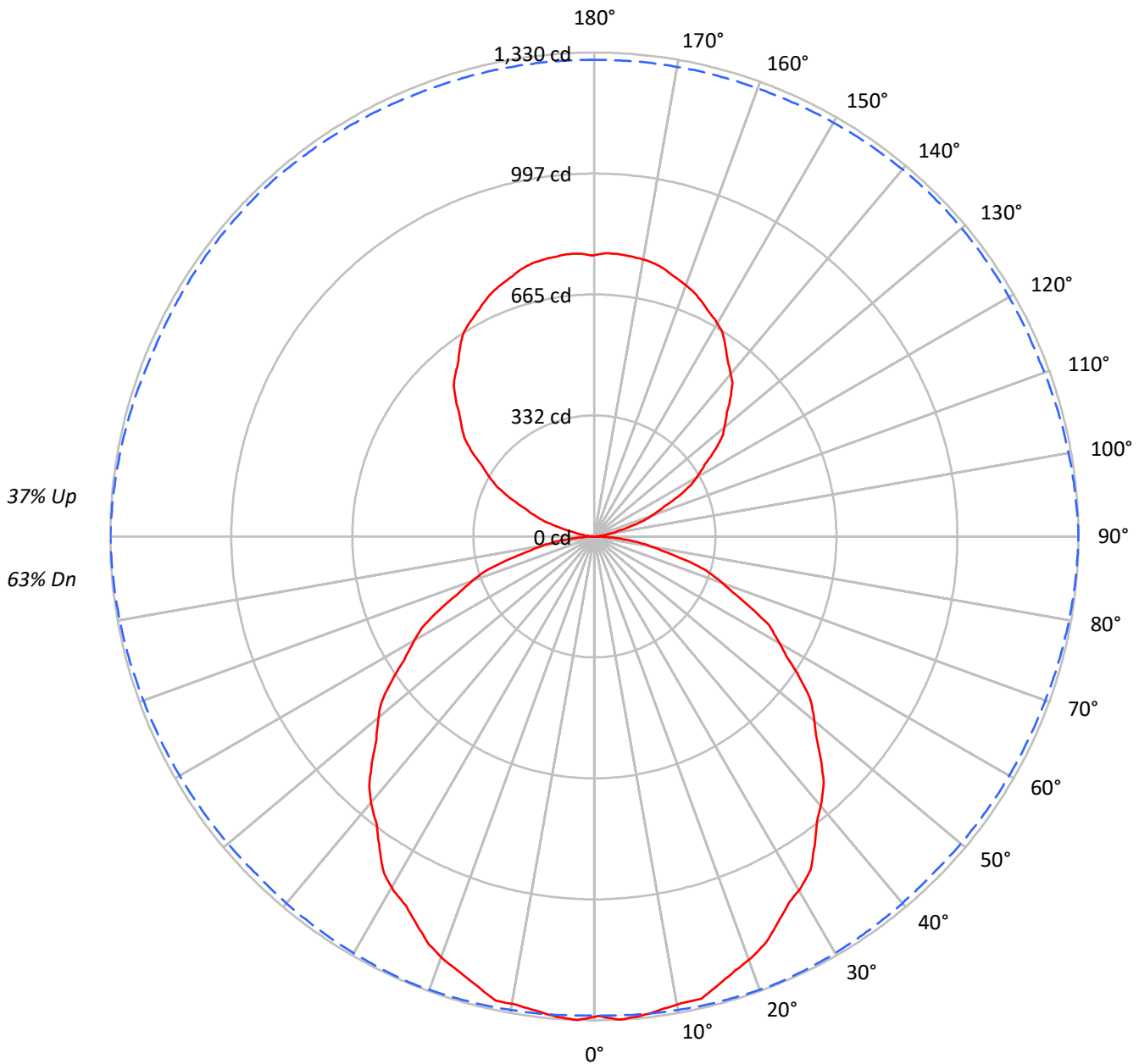
Lumens per Lamp: N/A  
Luminaire Lumens: 5839.9 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

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°	21287	21287	21287
5°	21538	21460	21135
10°	21317	21395	21097
15°	21397	21366	20966
20°	20893	21222	20483
25°	20861	20913	20147
30°	20601	20870	19941
35°	20120	20536	19594
40°	19924	20265	19197
45°	19726	19902	18854
50°	19032	19635	18311
55°	18852	19257	17667
60°	18012	18690	17024
65°	17215	18094	16157
70°	16442	17254	15087
75°	15278	15876	13606
80°	13073	13882	11390
85°	9744	10819	7799



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.8	2.1
10°-20°	356.9	6.1
20°-30°	535.7	9.2
30°-40°	640.4	11.0
40°-50°	659.0	11.3
50°-60°	593.3	10.2
60°-70°	450.6	7.7
70°-80°	257.1	4.4
80°-90°	67.3	1.2
90°-100°	20.3	0.3
100°-110°	87.9	1.5
110°-120°	250.7	4.3
120°-130°	381.1	6.5
130°-140°	412.2	7.1
140°-150°	393.9	6.7
150°-160°	323.9	5.5
160°-170°	211.7	3.6
170°-180°	73.2	1.3
0°-30°	1017.4	17.4
0°-40°	1657.8	28.4
0°-60°	2910.0	49.8
0°-90°	3685.0	63.1
90°-120°	358.9	6.1
90°-150°	1546.1	26.5
90°-180°	2155.0	36.9
0°-180°	5839.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1318	1318	1318	1318	1318	
5°	1329	1318	1324	1301	1304	125
15°	1280	1272	1278	1260	1254	358
25°	1171	1178	1174	1162	1131	538
35°	1021	1046	1042	1019	994	643
45°	864	871	872	852	826	660
55°	670	681	684	656	628	593
65°	451	463	474	441	423	448
75°	245	252	254	232	218	256
85°	53	60	58	53	42	63
90°	0	0	0	0	0	2
95°	3	5	14	33	31	4
105°	20	52	102	70	75	23
115°	185	492	254	121	136	254
125°	737	648	406	199	171	648
135°	816	738	534	331	262	629
145°	850	795	636	471	401	532
155°	860	821	710	589	535	397
165°	839	821	760	682	650	239
175°	791	793	779	751	730	77
180°	772	772	772	772	772	



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CATALOG NUMBER: SQW-F-050U-100D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4
2.5°	1316.9	1327.3	1313.0	1317.1	1329.9	1314.2	1318.4	1310.7	1310.0
5°	1328.9	1313.0	1318.4	1311.0	1324.1	1312.0	1301.2	1315.3	1304.0
7.5°	1306.3	1296.0	1317.0	1306.5	1313.4	1305.2	1306.3	1298.5	1298.3
10°	1300.2	1293.7	1300.2	1300.3	1305.0	1293.8	1292.6	1284.0	1286.8
12.5°	1282.6	1291.8	1281.8	1294.3	1304.2	1284.8	1277.2	1280.2	1285.3
15°	1280.1	1277.3	1272.5	1268.8	1278.2	1255.8	1260.0	1251.5	1254.3
17.5°	1241.3	1246.5	1248.9	1245.9	1254.3	1233.9	1229.0	1229.1	1230.4
20°	1216.0	1227.2	1235.1	1226.7	1235.1	1219.2	1216.0	1204.3	1192.1
22.5°	1202.2	1200.0	1216.0	1199.2	1210.7	1191.0	1199.9	1179.4	1186.0
25°	1171.0	1161.7	1177.7	1168.3	1173.9	1158.0	1161.5	1136.5	1130.9
27.5°	1129.5	1129.5	1139.3	1135.4	1139.3	1126.6	1123.0	1100.2	1098.0
30°	1105.0	1097.5	1115.6	1107.2	1119.4	1089.4	1091.6	1073.4	1069.6
32.5°	1072.1	1075.1	1087.2	1076.7	1091.1	1062.6	1067.9	1039.9	1044.4
35°	1020.8	1026.5	1045.7	1031.6	1041.9	1025.0	1018.9	1000.6	994.1
37.5°	988.1	979.5	988.9	989.7	992.9	974.4	967.6	945.5	947.6
40°	945.3	943.4	956.7	960.6	961.5	943.7	938.6	911.8	910.8
42.5°	906.2	908.1	919.2	923.8	924.0	906.2	905.6	876.6	880.2
45°	863.9	861.1	870.6	869.7	871.6	852.9	852.5	824.7	825.7
47.5°	797.5	803.5	810.0	811.9	819.2	803.3	792.0	769.9	766.5
50°	757.7	769.0	770.2	778.8	781.7	762.0	753.0	734.6	729.0
52.5°	722.5	728.5	733.4	739.1	743.4	725.2	711.6	694.2	693.1
55°	669.7	666.0	681.2	679.4	684.1	670.0	656.3	637.0	627.6
57.5°	601.4	608.7	612.1	619.3	622.5	607.1	595.1	574.6	573.9
60°	557.8	568.1	569.3	581.6	578.8	565.7	553.0	534.6	527.2
62.5°	518.0	520.8	528.7	537.3	538.3	523.7	514.0	494.1	488.9
65°	450.6	456.2	463.1	474.5	473.6	463.3	441.1	430.4	422.9
67.5°	389.6	391.5	400.7	406.1	409.9	395.6	382.9	367.9	364.7
70°	348.3	346.4	357.8	361.7	365.5	354.2	341.6	328.0	319.6
72.5°	303.1	305.0	313.4	319.6	321.8	310.6	297.2	286.7	281.3
75°	244.9	243.1	251.6	255.4	254.5	246.1	232.5	225.6	218.1
77.5°	180.4	184.2	189.2	192.7	191.3	185.7	175.1	164.7	161.5
80°	140.6	144.4	150.2	152.1	149.3	143.6	136.8	127.1	122.5
82.5°	103.9	106.1	111.9	115.3	111.0	107.6	101.6	94.2	88.8
85°	52.6	54.5	60.3	62.1	58.4	58.4	52.6	45.8	42.1
87.5°	12.2	13.0	17.6	22.9	18.4	19.9	15.3	11.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.0	1.0	1.0	2.1	3.1	11.4	12.6	11.0	11.0
95°	3.3	3.3	4.6	14.4	13.8	23.4	32.8	30.8	30.8
97.5°	6.7	7.3	10.5	42.6	32.1	31.2	44.3	49.3	50.2
100°	9.8	10.5	15.7	69.7	47.9	40.8	48.5	57.7	59.7
102.5°	13.5	14.7	25.2	109.6	67.3	47.9	55.3	63.5	66.0
105°	20.3	22.2	51.8	183.7	101.6	62.5	69.5	72.8	74.7
107.5°	30.2	38.0	139.5	258.1	144.2	82.6	89.9	89.5	91.1
110°	40.6	56.7	241.3	298.8	175.7	98.1	98.3	103.5	101.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	67.4	112.6	359.8	337.9	207.2	116.8	106.2	117.8	118.4
115°	184.9	317.6	491.7	392.8	253.7	149.9	120.6	131.9	136.4
117.5°	458.4	552.5	559.2	441.5	300.1	186.8	137.1	142.1	148.0
120°	621.5	640.7	590.7	471.4	331.1	213.1	150.8	149.0	155.4
122.5°	685.5	678.5	616.4	499.3	361.5	241.0	167.6	157.3	161.7
125°	736.9	718.9	648.4	537.8	405.8	282.7	199.3	171.1	171.1
127.5°	767.5	746.6	677.7	572.1	445.8	324.9	237.4	193.5	187.5
130°	785.4	762.9	695.6	595.7	472.0	352.1	264.2	212.8	203.2
132.5°	799.0	778.6	712.3	614.2	497.7	378.9	290.9	236.8	221.1
135°	815.5	798.2	738.2	642.6	533.6	418.9	331.1	278.3	262.2
137.5°	826.2	812.7	761.4	665.9	566.9	458.6	371.6	318.5	304.1
140°	831.9	821.0	772.9	679.7	587.4	484.2	399.9	345.8	332.4
142.5°	837.7	828.8	781.3	695.0	607.3	509.8	427.7	373.6	359.1
145°	849.6	839.4	795.2	713.5	635.9	545.5	470.7	414.0	401.2
147.5°	858.0	845.7	806.6	733.3	662.9	577.9	510.2	455.5	442.8
150°	860.1	847.3	812.9	743.9	679.2	597.8	534.3	482.2	470.0
152.5°	858.5	848.8	817.6	752.9	692.8	617.0	556.3	507.9	496.8
155°	859.5	850.5	821.4	765.1	710.0	644.0	589.4	546.5	534.9
157.5°	855.5	849.6	824.1	774.4	725.9	668.0	619.6	583.6	571.9
160°	855.5	846.5	824.1	779.8	736.9	683.7	638.5	606.2	596.6
162.5°	849.8	841.8	823.5	783.6	747.4	698.3	656.4	626.2	619.1
165°	839.1	832.7	820.8	788.7	760.5	718.2	681.8	654.8	650.3
167.5°	830.9	822.0	815.5	788.5	769.4	732.5	703.3	681.0	678.4
170°	821.4	815.7	810.3	787.0	773.6	742.8	718.5	696.2	693.6
172.5°	809.4	806.2	803.5	786.1	776.2	751.6	731.6	711.3	706.7
175°	790.6	793.2	792.6	783.9	778.8	762.8	750.6	736.1	730.3
177.5°	779.1	778.1	780.7	779.1	778.6	768.8	765.4	755.6	758.6
180°	772.3	772.3	772.3	772.3	772.3	772.3	772.3	772.3	772.3

(END OF REPORT)