

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: P511776

Luminaire Tested: **SQW-F-050U-125D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511776  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-050U-125D-930-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

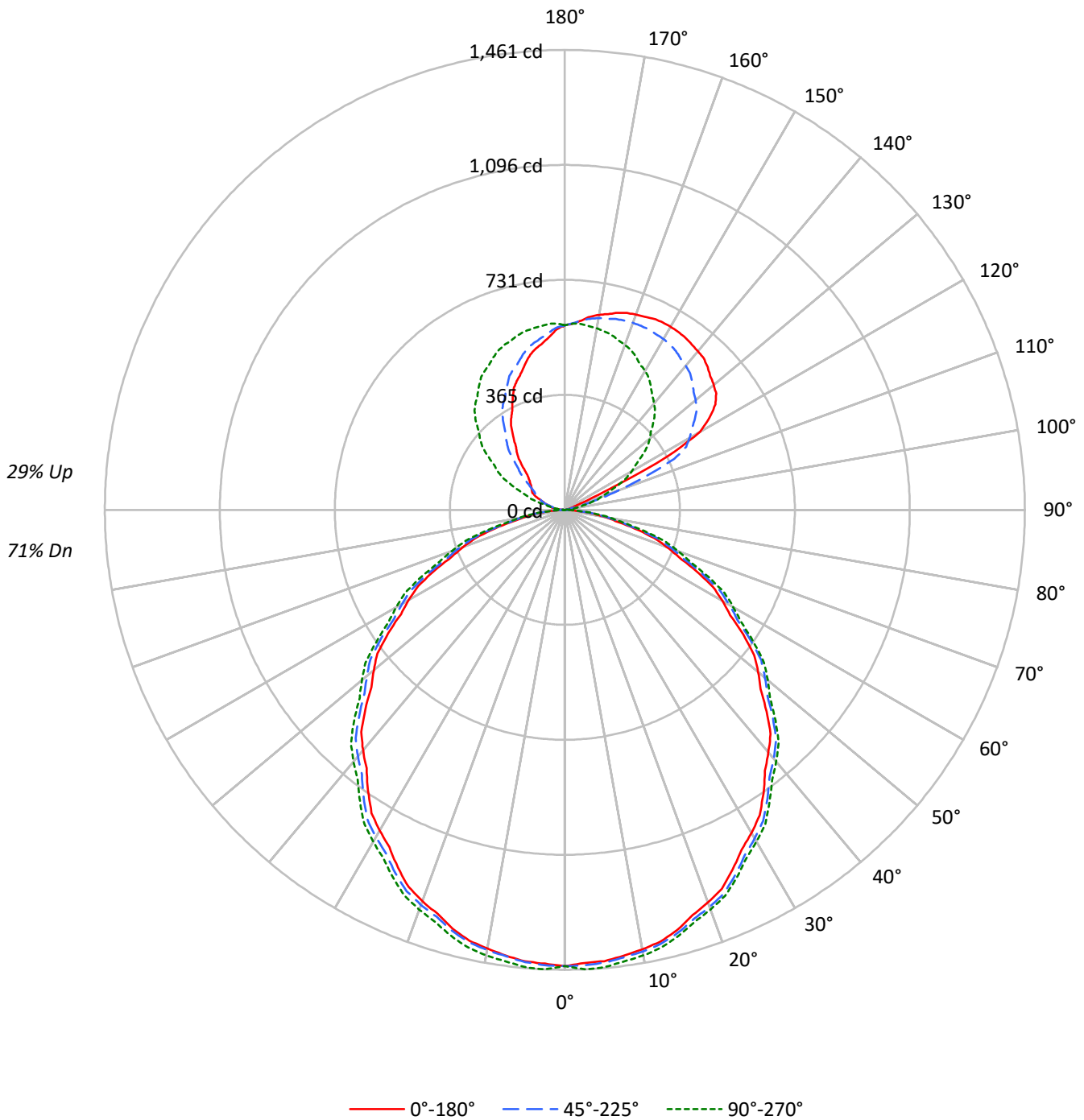
Lumens per Lamp: N/A  
Luminaire Lumens: 5587.4 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 61.2  
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





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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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	102	98	94	90	97	93	89	86	83	81	78	75	72	71	66	65	63	63	63	63	60	
2	93	85	79	74	88	81	75	71	73	68	64	65	62	59	58	56	53	53	53	53	50	
3	85	75	67	61	80	71	64	59	64	59	54	58	53	50	52	48	45	45	45	45	42	
4	78	66	58	52	73	63	56	50	57	51	46	51	46	42	46	42	39	39	39	39	36	
5	71	59	51	44	67	56	49	43	51	45	40	46	41	37	41	37	34	34	34	34	31	
6	66	53	45	39	62	51	43	37	46	40	35	42	36	32	38	33	30	30	30	30	27	
7	61	48	40	34	57	46	38	33	42	35	31	38	33	29	34	30	26	26	26	26	24	
8	57	44	36	30	53	42	34	29	38	32	27	35	29	25	31	27	24	24	24	24	21	
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	19	
10	49	37	29	24	47	35	28	24	32	26	22	30	24	21	27	23	19	19	19	19	17	

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

	0°	90°	180°
0°	46807	46807	46807
5°	46649	47268	46675
10°	46486	47136	46408
15°	46172	46810	46065
20°	45629	46450	45464
25°	44930	45977	44677
30°	44204	45390	43846
35°	43347	44696	42941
40°	42399	44009	42028
45°	41357	43211	40923
50°	40265	42260	39783
55°	38942	41138	38542
60°	37278	39900	36923
65°	35179	38334	34934
70°	32507	36104	32281
75°	28571	32639	28671
80°	23059	27057	23654
85°	13264	18562	15895



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.0	2.5
10°-20°	390.5	7.0
20°-30°	585.2	10.5
30°-40°	696.0	12.5
40°-50°	712.7	12.8
50°-60°	635.4	11.4
60°-70°	474.7	8.5
70°-80°	260.1	4.7
80°-90°	61.2	1.1
90°-100°	14.4	0.3
100°-110°	65.8	1.2
110°-120°	193.0	3.5
120°-130°	290.6	5.2
130°-140°	312.0	5.6
140°-150°	297.8	5.3
150°-160°	245.0	4.4
160°-170°	160.4	2.9
170°-180°	55.6	1.0
0°-30°	1112.7	19.9
0°-40°	1808.7	32.4
0°-60°	3156.8	56.5
0°-90°	3952.7	70.7
90°-120°	273.2	4.9
90°-150°	1173.6	21.0
90°-180°	1635.0	29.3
0°-180°	5587.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1450	1450	1450	1450	1450	
5°	1439	1444	1458	1442	1440	137
15°	1381	1391	1400	1384	1378	389
25°	1261	1280	1290	1274	1254	581
35°	1100	1122	1134	1115	1089	687
45°	906	934	946	923	896	698
55°	692	719	731	711	685	617
65°	460	483	502	479	457	456
75°	229	246	262	244	230	244
85°	36	48	50	49	43	51
90°	1	1	1	2	3	1
95°	4	5	11	18	17	5
105°	18	43	75	50	53	21
115°	155	384	188	94	104	207
125°	584	504	299	141	130	513
135°	641	573	400	238	183	495
145°	667	615	477	341	287	418
155°	670	632	536	435	391	309
165°	648	627	575	512	482	184
175°	604	604	593	567	553	59
180°	586	586	586	586	586	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5
2.5°	1440.6	1447.4	1448.2	1447.2	1460.9	1447.8	1448.2	1446.8	1443.1
5°	1439.1	1440.7	1443.9	1441.9	1458.2	1441.1	1442.3	1439.1	1439.9
7.5°	1429.1	1430.2	1433.7	1430.0	1446.4	1429.8	1430.2	1426.9	1428.6
10°	1417.7	1420.0	1424.8	1420.4	1437.5	1419.7	1420.0	1416.0	1415.3
12.5°	1404.9	1406.0	1412.1	1407.7	1423.5	1406.3	1407.3	1401.4	1401.9
15°	1381.1	1385.0	1390.6	1383.8	1400.2	1383.1	1384.3	1378.7	1377.9
17.5°	1350.1	1356.9	1362.6	1355.8	1372.0	1354.4	1355.5	1347.8	1345.3
20°	1327.8	1334.0	1342.9	1336.1	1351.7	1332.2	1335.8	1323.0	1323.0
22.5°	1303.0	1306.7	1319.4	1312.0	1328.1	1308.7	1311.6	1295.7	1296.3
25°	1261.0	1266.5	1280.1	1274.1	1290.4	1270.2	1273.7	1255.4	1253.9
27.5°	1216.7	1223.0	1237.2	1231.7	1247.8	1227.8	1230.3	1210.2	1207.7
30°	1185.5	1192.5	1205.4	1201.7	1217.3	1197.9	1199.8	1179.1	1175.9
32.5°	1151.1	1159.4	1172.3	1171.8	1184.9	1167.3	1167.4	1146.0	1142.2
35°	1099.6	1107.4	1121.9	1122.1	1133.8	1115.9	1114.7	1093.9	1089.3
37.5°	1044.6	1053.5	1068.3	1070.3	1080.9	1064.2	1059.4	1038.6	1034.6
40°	1005.8	1015.9	1032.0	1034.6	1044.0	1026.1	1022.5	1001.7	997.0
42.5°	967.0	977.1	993.2	997.1	1005.2	990.4	983.1	962.3	957.0
45°	905.6	916.5	934.2	939.9	946.2	932.9	923.1	902.3	896.1
47.5°	843.4	853.5	872.1	879.9	883.8	872.6	862.4	840.7	833.9
50°	801.5	811.6	830.1	837.3	841.2	831.9	819.7	798.1	791.9
52.5°	757.6	767.7	786.2	794.7	798.0	789.9	777.8	756.2	749.9
55°	691.7	700.3	718.8	729.1	730.7	725.3	710.8	690.0	684.6
57.5°	623.0	631.4	649.8	660.9	663.6	658.1	642.8	622.1	617.5
60°	577.2	585.0	602.7	613.9	617.8	612.3	596.3	576.3	571.7
62.5°	530.8	538.0	555.0	566.9	572.0	565.9	549.3	529.9	525.2
65°	460.4	466.6	482.6	498.6	501.7	494.7	478.6	460.3	457.2
67.5°	390.7	395.4	410.4	426.1	430.1	423.0	406.5	390.8	387.1
70°	344.3	348.9	363.4	377.8	382.4	374.7	359.4	345.0	341.9
72.5°	297.8	301.9	316.3	329.4	334.1	327.6	312.3	299.2	296.1
75°	229.0	233.7	246.5	258.5	261.6	256.9	244.1	232.9	229.8
77.5°	164.7	167.7	178.7	188.0	190.7	187.2	177.5	167.6	166.0
80°	124.0	126.4	136.8	144.7	145.5	143.9	136.8	128.8	127.2
82.5°	86.5	89.5	99.2	105.9	104.2	105.1	99.9	92.5	91.6
85°	35.8	37.3	47.7	54.0	50.1	54.0	49.3	43.7	42.9
87.5°	4.0	4.6	8.4	15.4	13.5	16.6	13.7	10.0	10.2
90°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.5	3.3
92.5°	2.1	2.1	2.1	2.8	2.8	6.6	4.9	4.4	5.2
95°	4.1	4.1	4.9	12.2	10.6	16.3	18.0	17.2	17.2
97.5°	7.2	7.2	9.3	32.6	24.1	22.2	30.3	31.3	31.0
100°	9.8	9.8	13.9	52.0	35.2	28.8	33.6	38.5	40.1
102.5°	12.4	13.1	21.1	80.5	49.6	36.8	38.2	43.1	44.7
105°	18.0	19.6	42.6	135.4	75.3	48.9	50.0	50.8	53.2
107.5°	26.7	32.6	107.9	193.3	106.3	64.2	66.3	63.7	63.9
110°	35.2	48.8	182.6	230.3	128.6	74.9	76.2	72.9	73.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	57.5	96.7	277.6	259.6	152.2	87.6	83.4	86.6	84.8
115°	154.8	252.5	384.1	302.0	187.5	109.1	94.2	101.6	104.0
117.5°	369.8	435.8	434.2	337.9	222.7	135.0	104.2	111.1	115.1
120°	496.3	505.9	457.8	360.2	245.7	152.8	111.4	116.4	120.4
122.5°	545.4	533.9	477.4	380.5	267.3	171.8	121.2	120.3	125.0
125°	583.9	563.1	504.5	408.6	298.9	203.6	140.9	127.8	130.2
127.5°	605.7	582.6	527.7	434.9	331.0	235.4	166.9	140.2	138.7
130°	617.5	595.0	542.1	451.4	351.3	257.6	185.9	150.6	146.6
132.5°	627.3	606.8	555.2	467.2	371.0	279.2	206.2	166.2	159.0
135°	641.2	622.0	573.2	488.5	399.6	309.9	237.5	193.0	182.6
137.5°	653.0	633.5	588.5	508.8	424.4	340.0	267.9	225.7	213.6
140°	657.6	640.0	597.0	520.7	441.4	358.9	288.3	245.5	235.8
142.5°	662.2	645.2	604.8	532.5	455.8	377.2	309.2	266.4	256.2
145°	667.4	650.6	615.0	547.9	476.6	403.7	340.7	297.0	286.6
147.5°	670.2	655.1	622.5	560.8	496.9	428.2	371.6	327.7	318.2
150°	671.5	657.1	626.5	569.4	509.4	444.5	390.6	348.7	339.8
152.5°	671.5	656.5	628.4	576.1	519.8	459.5	409.0	369.0	360.8
155°	669.9	655.5	632.2	584.4	535.6	481.1	434.8	400.2	391.4
157.5°	663.3	654.7	632.2	592.1	549.2	501.3	460.1	429.3	421.4
160°	660.0	652.0	632.2	596.1	557.7	513.6	475.8	447.0	439.8
162.5°	655.5	647.5	630.9	598.8	564.9	524.7	490.9	462.7	457.4
165°	647.8	639.8	627.3	601.3	574.9	540.4	511.8	487.9	482.3
167.5°	636.8	632.3	622.2	602.1	580.9	554.5	529.5	510.4	505.9
170°	628.9	625.7	618.3	601.5	585.5	562.3	541.3	524.9	521.6
172.5°	619.1	617.2	612.4	601.0	588.8	570.1	552.4	536.7	534.1
175°	603.5	605.1	603.5	598.5	592.9	580.1	566.7	555.2	552.8
177.5°	591.6	591.6	592.9	592.9	592.2	585.8	579.8	573.3	574.5
180°	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3

(END OF REPORT)