

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: P511806

Luminaire Tested: **SQW-F-075U-125D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511806  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-075U-125D-930-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

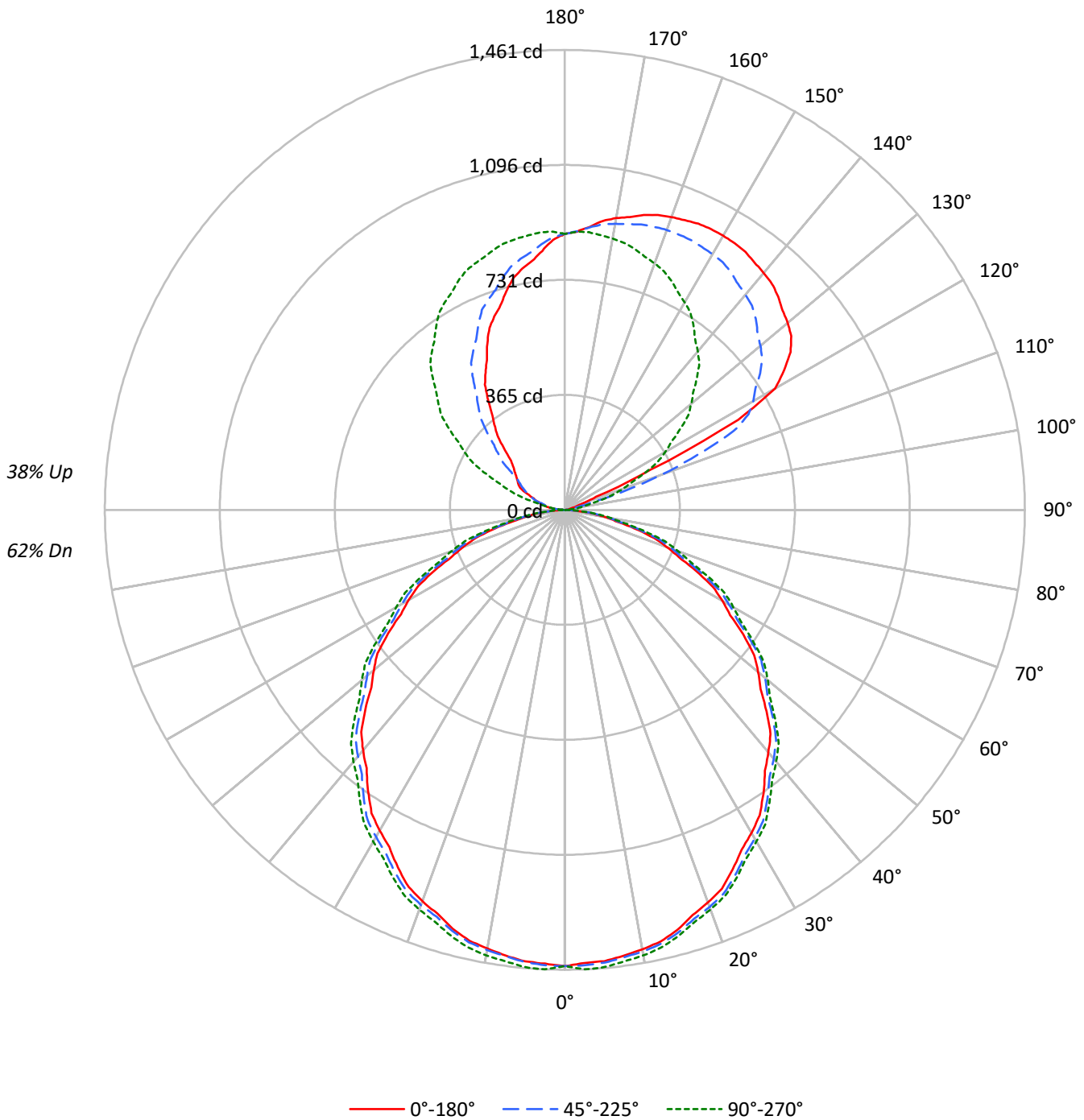
Lumens per Lamp: N/A  
Luminaire Lumens: 6409.6 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 67.4  
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	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	100	96	92	88	94	90	87	83	79	76	74	69	67	65	59	58	56	52
2	91	84	77	72	85	79	73	68	69	65	61	60	57	54	52	49	47	43
3	83	74	66	60	78	69	62	57	61	55	51	53	49	46	46	43	40	37
4	76	65	57	51	71	61	54	48	54	48	44	47	43	39	41	37	35	31
5	70	58	50	43	65	55	47	41	48	42	38	42	38	34	37	33	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	30	33	29	26	24
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23	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	24	21	26	22	19	17
10	48	36	28	23	45	34	27	23	30	25	21	27	22	19	24	20	17	15

**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	2.1
10°-20°	390.5	6.1
20°-30°	585.2	9.1
30°-40°	696.0	10.9
40°-50°	712.7	11.1
50°-60°	635.4	9.9
60°-70°	474.7	7.4
70°-80°	260.1	4.1
80°-90°	61.4	1.0
90°-100°	22.1	0.3
100°-110°	102.5	1.6
110°-120°	298.9	4.7
120°-130°	434.3	6.8
130°-140°	464.7	7.3
140°-150°	444.6	6.9
150°-160°	366.6	5.7
160°-170°	239.8	3.7
170°-180°	83.1	1.3
0°-30°	1112.7	17.4
0°-40°	1808.7	28.2
0°-60°	3156.8	49.3
0°-90°	3953.0	61.7
90°-120°	423.5	6.6
90°-150°	1767.2	27.6
90°-180°	2457.0	38.3
0°-180°	6409.6	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°	2	2	1	3	7	1
95°	7	8	16	27	25	7
105°	27	79	114	72	78	33
115°	301	592	284	136	150	353
125°	875	756	448	208	190	774
135°	958	858	593	349	268	740
145°	1000	920	713	508	424	626
155°	1003	946	802	649	583	463
165°	969	939	858	763	719	275
175°	902	901	885	847	826	87
180°	877	877	877	877	877	

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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°	4.1	4.8	8.6	15.4	13.5	16.8	14.0	10.7	10.9
90°	1.6	1.6	1.6	0.8	0.8	1.6	3.3	5.8	6.6
92.5°	3.0	3.6	3.6	4.1	4.8	9.5	6.6	7.7	7.9
95°	6.6	6.6	8.2	19.7	16.5	24.5	27.2	25.5	24.7
97.5°	10.9	11.7	16.0	51.7	37.1	32.9	44.8	47.9	45.0
100°	14.8	15.6	23.9	81.8	53.6	42.3	49.4	58.5	60.2
102.5°	19.4	20.9	37.1	126.1	75.3	53.7	56.7	65.2	67.4
105°	27.2	31.2	79.1	208.8	113.7	71.0	72.5	75.1	78.3
107.5°	42.2	56.7	200.9	296.4	161.0	93.2	96.4	94.1	94.3
110°	59.3	89.9	328.8	346.8	195.3	110.7	109.6	107.9	105.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	107.5	188.4	458.0	391.4	231.6	129.6	120.1	127.6	122.6
115°	300.8	456.3	591.7	452.7	284.3	161.8	136.0	146.8	150.0
117.5°	620.3	690.8	658.2	507.2	334.7	199.5	151.1	158.8	164.2
120°	771.3	768.9	690.6	540.8	368.3	227.3	162.3	167.4	171.4
122.5°	826.7	803.6	717.6	571.1	400.7	257.1	177.5	174.6	179.3
125°	875.1	843.7	756.5	612.7	448.3	302.4	207.7	186.3	189.5
127.5°	906.6	872.1	789.8	650.7	494.4	350.5	247.5	204.8	200.9
130°	923.8	889.9	810.9	674.0	524.1	381.5	275.2	223.1	213.4
132.5°	938.3	906.4	830.6	696.5	553.1	413.1	304.9	246.1	231.9
135°	958.4	927.7	857.8	729.5	593.3	458.8	349.4	288.0	267.8
137.5°	973.7	945.8	879.3	759.0	632.4	503.8	396.0	334.3	313.6
140°	982.3	955.7	892.4	777.6	656.8	532.7	427.7	364.6	345.3
142.5°	990.2	964.2	903.6	794.3	679.8	560.3	460.0	395.6	376.3
145°	999.6	974.6	920.5	818.4	712.8	601.6	508.4	442.9	424.4
147.5°	1004.0	981.0	932.5	839.8	742.3	639.8	553.4	490.5	471.8
150°	1005.3	983.6	937.8	852.5	761.4	664.7	581.8	522.8	503.5
152.5°	1006.0	983.6	941.7	863.2	778.6	687.0	609.5	553.8	535.8
155°	1002.9	982.7	946.0	875.9	801.8	718.8	649.3	598.7	582.6
157.5°	995.6	980.8	946.7	886.7	821.2	748.6	687.3	640.9	625.8
160°	989.7	976.8	946.0	892.7	833.1	766.2	710.3	668.0	653.5
162.5°	981.8	968.9	942.7	895.5	843.7	782.6	732.1	691.8	679.8
165°	969.1	957.0	938.6	899.7	857.8	807.1	763.1	728.2	718.6
167.5°	952.9	945.4	929.5	901.4	869.2	828.1	791.4	763.0	754.8
170°	941.1	935.4	922.9	900.9	875.1	840.5	809.2	783.5	777.9
172.5°	925.9	922.8	914.4	898.4	879.8	851.6	825.0	802.7	797.0
175°	902.3	903.9	900.7	894.7	885.0	865.7	847.1	831.3	825.7
177.5°	884.7	884.7	885.4	886.0	884.7	876.3	866.9	857.7	858.3
180°	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8

(END OF REPORT)