

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: P511801

Luminaire Tested: **SQW-F-075U-100D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511801  
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-100D-935-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

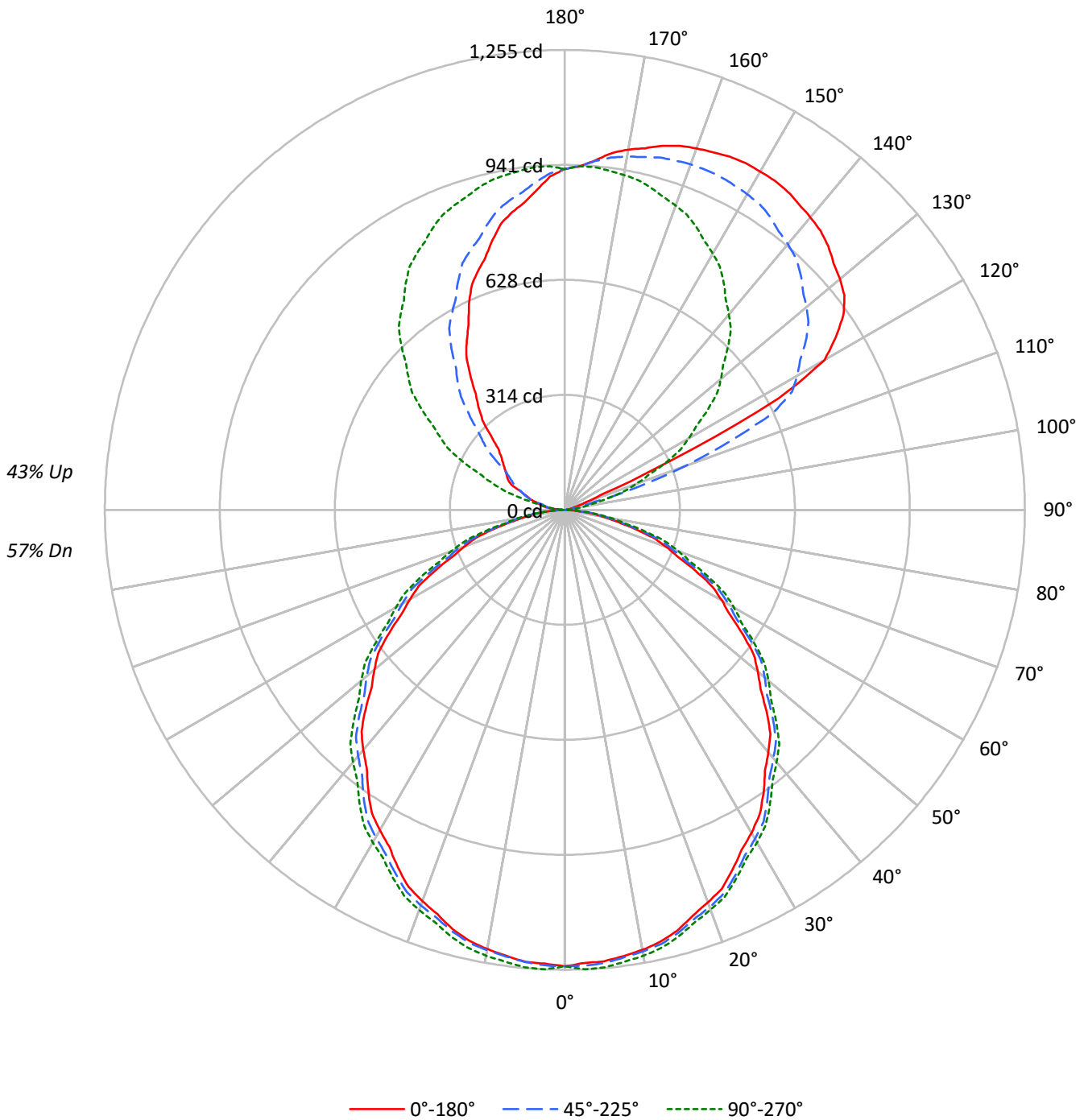
Lumens per Lamp: N/A  
Luminaire Lumens: 6001.4 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 57.2  
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57		
1	99	95	91	87	92	88	85	82	76	74	71	65	63	62	55	54	52	48		
2	90	83	77	71	84	77	72	67	67	63	59	57	54	51	48	46	44	40		
3	82	73	65	59	76	68	61	56	59	54	50	50	47	43	43	40	37	34		
4	75	64	56	50	70	60	53	47	52	47	42	45	41	37	38	35	32	29		
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	31	28	25		
6	64	51	43	37	59	48	41	35	42	36	32	36	32	28	31	27	25	22		
7	59	46	38	33	55	43	36	31	38	32	28	33	28	25	28	25	22	19		
8	55	42	34	29	51	40	32	27	35	29	25	30	26	22	26	22	19	17		
9	51	38	31	26	47	36	29	24	32	26	22	28	23	20	24	20	18	15		
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14		

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

	0°	90°	180°
0°	40223	40223	40223
5°	40078	40623	40130
10°	39987	40512	39905
15°	39726	40261	39586
20°	39182	39935	39038
25°	38584	39514	38374
30°	37955	39088	37642
35°	37237	38499	36871
40°	36404	37896	36050
45°	35511	37205	35086
50°	34528	36437	34066
55°	33380	35418	32901
60°	31917	34371	31485
65°	30029	32993	29639
70°	27626	31138	27314
75°	23993	28197	24517
80°	19284	23375	20381
85°	10634	15932	13746



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.8	2.0
10°-20°	335.7	5.6
20°-30°	503.2	8.4
30°-40°	598.3	10.0
40°-50°	612.5	10.2
50°-60°	546.0	9.1
60°-70°	407.0	6.8
70°-80°	222.4	3.7
80°-90°	52.7	0.9
90°-100°	23.4	0.4
100°-110°	108.7	1.8
110°-120°	317.0	5.3
120°-130°	460.7	7.7
130°-140°	492.9	8.2
140°-150°	471.6	7.9
150°-160°	388.8	6.5
160°-170°	254.3	4.2
170°-180°	88.2	1.5
0°-30°	956.7	15.9
0°-40°	1555.0	25.9
0°-60°	2713.5	45.2
0°-90°	3395.6	56.6
90°-120°	449.2	7.5
90°-150°	1874.4	31.2
90°-180°	2606.0	43.4
0°-180°	6001.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1246	1246	1246	1246	1246	
5°	1236	1241	1253	1239	1238	117
15°	1188	1195	1204	1190	1184	334
25°	1083	1101	1109	1095	1077	499
35°	945	964	977	957	935	590
45°	778	801	815	792	768	600
55°	593	616	629	611	584	529
65°	393	412	432	409	388	389
75°	192	208	226	209	196	206
85°	29	40	43	44	37	42
90°	2	2	1	4	7	1
95°	7	9	18	29	26	8
105°	29	84	121	77	83	35
115°	319	628	302	144	159	374
125°	928	802	476	220	201	821
135°	1016	910	629	371	284	784
145°	1060	976	756	539	450	664
155°	1064	1003	850	689	618	491
165°	1028	996	910	809	762	292
175°	957	955	939	898	876	93
180°	930	930	930	930	930	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6
2.5°	1237.5	1243.5	1245.0	1243.9	1255.1	1244.5	1244.3	1243.5	1239.6
5°	1236.4	1238.0	1241.4	1239.2	1253.2	1239.2	1238.9	1237.2	1238.0
7.5°	1228.3	1229.9	1231.8	1229.6	1243.6	1229.3	1229.1	1226.3	1227.1
10°	1219.5	1221.1	1223.7	1221.5	1235.5	1219.8	1220.3	1216.1	1217.0
12.5°	1207.3	1209.0	1213.6	1210.7	1224.0	1209.0	1209.5	1204.7	1204.8
15°	1188.3	1190.8	1195.0	1190.3	1204.3	1189.5	1190.0	1184.9	1184.1
17.5°	1161.1	1166.1	1171.3	1167.2	1179.7	1165.5	1166.2	1158.4	1156.2
20°	1140.2	1145.2	1153.7	1149.0	1162.1	1147.3	1148.7	1136.8	1136.0
22.5°	1119.3	1122.9	1133.5	1128.7	1141.9	1127.1	1127.7	1113.9	1113.7
25°	1082.9	1087.8	1100.6	1096.6	1109.0	1094.2	1094.7	1079.4	1077.0
27.5°	1045.6	1050.7	1063.6	1059.9	1072.6	1057.4	1058.4	1041.4	1036.5
30°	1017.9	1023.7	1037.3	1034.3	1048.3	1031.8	1031.4	1014.4	1009.5
32.5°	988.2	995.3	1009.0	1007.3	1020.0	1004.1	1002.4	985.4	980.5
35°	944.6	952.0	964.0	965.1	976.6	961.8	957.2	941.1	935.3
37.5°	897.3	904.3	917.2	919.5	930.7	915.2	908.8	894.1	887.5
40°	863.6	871.8	885.5	889.1	899.0	884.2	877.1	861.8	855.2
42.5°	830.5	838.8	853.1	858.7	866.0	851.8	843.4	828.7	820.8
45°	777.6	785.8	801.2	808.9	814.7	801.5	791.9	776.5	768.3
47.5°	723.8	732.8	748.4	757.9	761.7	749.7	740.8	723.7	714.5
50°	687.3	696.4	712.6	722.8	725.3	714.6	705.0	688.0	678.1
52.5°	650.2	658.0	674.2	685.7	686.8	678.1	667.9	650.9	641.6
55°	592.9	601.1	616.5	630.0	629.1	623.4	610.6	593.5	584.4
57.5°	534.0	540.6	556.6	571.0	571.3	564.7	552.4	535.5	526.6
60°	494.2	500.8	516.1	530.5	532.2	525.6	511.9	495.7	487.5
62.5°	454.4	460.3	475.0	490.7	492.4	485.8	471.4	455.9	447.7
65°	393.0	398.0	412.4	428.5	431.8	424.4	409.0	395.4	387.9
67.5°	332.5	337.2	350.7	366.6	370.9	362.5	348.6	335.7	328.4
70°	292.6	296.8	309.5	324.8	329.8	320.7	309.5	295.9	289.3
72.5°	252.2	256.3	269.0	283.6	287.9	279.5	269.0	256.8	254.2
75°	192.3	196.4	207.5	222.7	226.0	218.6	209.2	198.2	196.5
77.5°	138.8	141.5	151.5	162.0	164.1	159.7	154.0	144.2	143.4
80°	103.7	107.0	116.4	124.8	125.7	123.2	118.9	110.5	109.6
82.5°	72.7	75.3	83.3	91.1	89.9	90.1	87.2	79.4	79.3
85°	28.7	31.1	39.6	46.3	43.0	45.5	43.9	37.9	37.1
87.5°	3.0	3.7	7.1	13.6	12.3	14.5	12.8	10.0	10.2
90°	1.7	1.7	1.7	0.9	0.9	1.7	3.5	6.1	7.0
92.5°	3.1	3.8	3.8	4.4	5.1	10.0	7.0	8.2	8.4
95°	7.0	7.0	8.7	20.9	17.5	26.0	28.8	27.1	26.2
97.5°	11.5	12.4	17.0	54.9	39.3	34.9	47.5	50.8	47.7
100°	15.7	16.6	25.3	86.7	56.8	44.8	52.4	62.1	63.8
102.5°	20.6	22.2	39.3	133.7	79.9	57.0	60.1	69.1	71.5
105°	28.8	33.1	83.9	221.5	120.6	75.3	76.9	79.6	83.0
107.5°	44.8	60.1	213.1	314.4	170.8	98.8	102.3	99.8	100.0
110°	62.9	95.4	348.8	367.8	207.2	117.4	116.3	114.4	111.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	114.0	199.8	485.8	415.2	245.6	137.4	127.4	135.4	130.1
115°	319.0	484.0	627.6	480.2	301.6	171.6	144.2	155.7	159.1
117.5°	658.0	732.7	698.2	537.9	355.0	211.6	160.3	168.5	174.1
120°	818.1	815.6	732.5	573.6	390.7	241.1	172.2	177.5	181.8
122.5°	876.9	852.4	761.1	605.8	425.0	272.7	188.3	185.2	190.2
125°	928.3	894.9	802.4	649.8	475.5	320.8	220.3	197.6	201.0
127.5°	961.6	925.1	837.7	690.2	524.4	371.8	262.6	217.2	213.1
130°	979.8	943.9	860.1	714.9	555.9	404.6	291.9	236.6	226.4
132.5°	995.2	961.4	881.1	738.8	586.7	438.1	323.4	261.0	246.0
135°	1016.5	984.1	909.9	773.8	629.3	486.6	370.6	305.4	284.1
137.5°	1032.8	1003.2	932.6	805.1	670.8	534.4	420.1	354.5	332.7
140°	1041.9	1013.7	946.6	824.8	696.6	565.0	453.6	386.7	366.2
142.5°	1050.3	1022.8	958.5	842.5	721.1	594.3	487.9	419.6	399.1
145°	1060.2	1033.7	976.3	868.0	756.1	638.1	539.3	469.8	450.1
147.5°	1065.0	1040.5	989.1	890.8	787.4	678.6	587.0	520.3	500.5
150°	1066.4	1043.3	994.7	904.2	807.6	705.1	617.1	554.6	534.1
152.5°	1067.1	1043.3	998.9	915.6	825.8	728.7	646.5	587.5	568.3
155°	1063.7	1042.4	1003.4	929.1	850.5	762.4	688.8	635.1	618.0
157.5°	1056.0	1040.3	1004.1	940.5	871.1	794.0	729.0	679.8	663.8
160°	1049.8	1036.1	1003.4	946.9	883.7	812.7	753.4	708.5	693.1
162.5°	1041.4	1027.7	999.9	949.9	894.9	830.1	776.5	733.8	721.1
165°	1027.9	1015.1	995.6	954.3	909.9	856.1	809.4	772.4	762.2
167.5°	1010.8	1002.7	985.9	956.1	922.0	878.4	839.5	809.4	800.6
170°	998.2	992.2	979.0	955.6	928.3	891.5	858.3	831.1	825.1
172.5°	982.1	978.9	969.9	953.0	933.2	903.2	875.1	851.4	845.4
175°	957.1	958.8	955.4	949.0	938.7	918.2	898.5	881.8	875.8
177.5°	938.4	938.4	939.1	939.8	938.4	929.5	919.5	909.7	910.4
180°	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0

(END OF REPORT)