

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: P511790

Luminaire Tested: **SQW-F-075U-050D-940-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511790  
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-050D-940-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

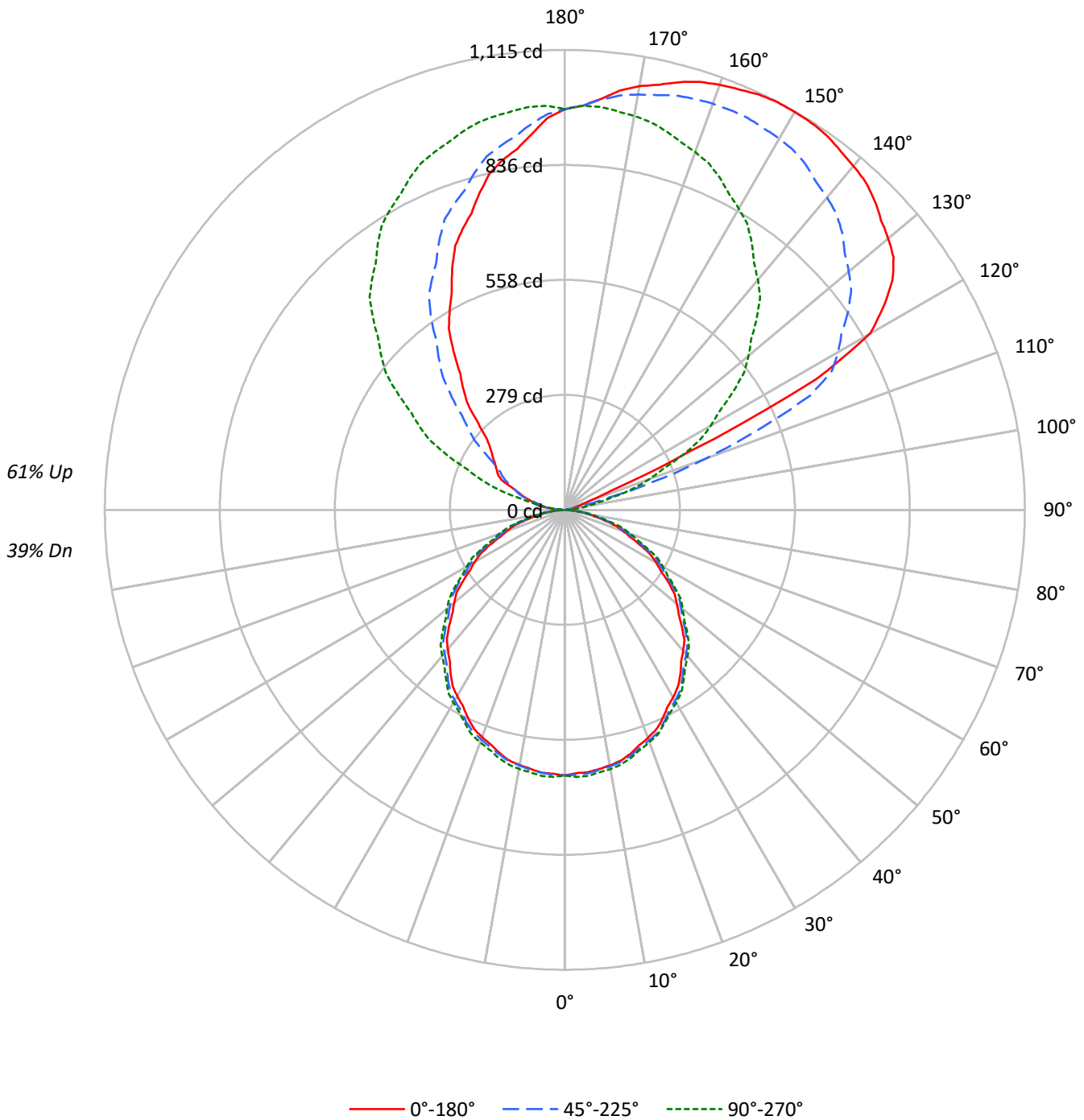
Lumens per Lamp: N/A  
Luminaire Lumens: 4472.6 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 37.8  
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	79	73	68	79	72	67	63	59	56	52	47	45	42	36	34	33	28
3	79	70	63	57	72	64	57	52	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	34	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	18	15	13	11
10	45	33	26	21	41	31	24	20	26	21	17	21	17	14	16	14	12	10

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

	0°	90°	180°
0°	20796	20796	20796
5°	20704	20989	20733
10°	20625	20913	20595
15°	20470	20791	20410
20°	20223	20615	20162
25°	19932	20370	19807
30°	19576	20135	19445
35°	19237	19793	19033
40°	18792	19496	18607
45°	18304	19148	18103
50°	17834	18718	17568
55°	17261	18252	17014
60°	16501	17696	16269
65°	15412	16825	15213
70°	14219	15890	14058
75°	12527	14398	12414
80°	10153	12125	10321
85°	5891	8151	6854



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.8	1.4
10°-20°	173.3	3.9
20°-30°	259.6	5.8
30°-40°	308.6	6.9
40°-50°	315.8	7.1
50°-60°	281.6	6.3
60°-70°	208.9	4.7
70°-80°	114.4	2.6
80°-90°	27.6	0.6
90°-100°	24.5	0.5
100°-110°	113.6	2.5
110°-120°	331.2	7.4
120°-130°	481.2	10.8
130°-140°	514.9	11.5
140°-150°	492.6	11.0
150°-160°	406.2	9.1
160°-170°	265.7	5.9
170°-180°	92.1	2.1
0°-30°	493.7	11.0
0°-40°	802.3	17.9
0°-60°	1399.7	31.3
0°-90°	1750.7	39.1
90°-120°	469.2	10.5
90°-150°	1958.0	43.8
90°-180°	2722.0	60.9
0°-180°	4472.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	644	644	644	644	644	
5°	639	641	648	640	640	61
15°	612	617	622	614	610	173
25°	559	568	572	566	556	257
35°	488	497	502	495	483	305
45°	401	413	419	410	396	310
55°	307	317	324	316	302	273
65°	202	211	220	210	199	200
75°	100	108	115	108	100	107
85°	16	21	22	23	18	22
90°	2	2	1	4	7	1
95°	7	9	18	30	27	8
105°	30	88	126	80	87	37
115°	333	656	315	151	166	391
125°	970	838	497	230	210	857
135°	1062	950	657	387	297	819
145°	1108	1020	790	563	470	694
155°	1111	1048	888	720	646	513
165°	1074	1040	950	846	796	305
175°	1000	998	981	939	915	97
180°	971	971	971	971	971	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0
2.5°	639.0	641.8	642.6	642.0	648.2	642.7	642.6	641.8	640.4
5°	638.7	639.5	641.3	639.7	647.5	639.7	640.4	638.7	639.6
7.5°	633.9	634.8	635.9	635.0	642.0	635.0	635.5	633.7	633.7
10°	629.0	629.9	631.6	630.0	637.8	630.0	629.9	628.1	628.1
12.5°	623.4	624.2	626.0	624.4	632.2	624.4	624.2	621.8	622.5
15°	612.3	614.8	616.7	614.2	621.9	614.2	614.0	612.2	610.5
17.5°	599.0	601.6	604.7	602.0	609.1	601.2	602.0	598.1	596.6
20°	588.5	591.1	595.5	592.2	599.9	591.3	592.9	587.6	586.7
22.5°	577.2	579.1	585.6	582.3	589.3	581.4	582.3	575.6	574.7
25°	559.4	561.1	568.2	565.7	571.7	564.0	566.4	556.7	555.9
27.5°	539.1	541.7	548.1	546.5	553.4	544.8	547.2	537.2	535.6
30°	525.0	527.6	534.7	533.1	540.0	531.4	533.8	522.4	521.5
32.5°	509.5	513.5	519.9	519.7	525.2	517.3	518.3	507.6	506.0
35°	488.0	490.6	496.8	497.0	502.1	495.2	495.1	484.5	482.8
37.5°	463.4	466.8	473.4	474.4	479.4	471.8	470.6	461.0	458.3
40°	445.8	449.2	457.2	458.2	462.5	455.6	453.7	444.8	441.4
42.5°	428.8	432.3	440.3	441.3	445.6	439.4	436.1	427.9	423.0
45°	400.8	405.1	413.2	415.9	419.3	413.3	409.6	399.9	396.4
47.5°	374.0	377.5	385.7	390.1	391.7	387.5	382.9	372.4	368.8
50°	355.0	358.5	367.4	371.8	372.6	369.2	363.8	354.0	349.7
52.5°	335.3	338.7	348.3	352.7	353.6	350.2	344.8	335.0	330.7
55°	306.6	310.0	317.1	324.2	324.2	322.5	316.3	305.6	302.2
57.5°	275.9	279.2	288.1	294.2	294.4	292.0	285.6	275.8	272.4
60°	255.5	258.1	266.9	273.1	274.0	272.2	265.2	255.4	251.9
62.5°	232.9	236.2	245.1	252.0	253.5	251.1	243.3	234.2	229.4
65°	201.7	203.5	211.4	218.5	220.2	217.7	210.5	201.7	199.1
67.5°	171.1	172.1	179.7	186.8	188.7	185.9	178.8	172.7	168.6
70°	150.6	152.4	158.6	165.7	168.3	164.8	157.7	152.3	148.9
72.5°	130.2	131.9	138.1	144.5	147.1	144.4	138.0	132.6	129.1
75°	100.4	101.3	107.5	113.7	115.4	112.8	107.5	103.0	99.5
77.5°	72.2	73.1	79.6	83.4	84.9	83.4	79.1	74.8	72.4
80°	54.6	55.5	59.9	64.3	65.2	64.3	60.8	57.2	55.5
82.5°	37.7	38.6	43.7	46.7	46.9	47.4	44.6	41.7	39.3
85°	15.9	16.7	21.1	23.7	22.0	24.6	22.9	20.2	18.5
87.5°	2.5	2.5	4.6	6.5	6.5	7.4	6.4	6.2	5.0
90°	1.8	1.8	1.8	0.9	0.9	1.8	3.7	6.4	7.3
92.5°	3.3	4.0	4.0	4.6	5.3	10.5	7.3	8.6	8.8
95°	7.3	7.3	9.1	21.8	18.3	27.2	30.1	28.3	27.4
97.5°	12.1	12.9	17.7	57.3	41.1	36.4	49.7	53.1	49.9
100°	16.4	17.3	26.5	90.6	59.3	46.8	54.8	64.9	66.7
102.5°	21.5	23.2	41.1	139.7	83.4	59.5	62.8	72.2	74.7
105°	30.1	34.6	87.6	231.3	126.0	78.7	80.3	83.2	86.7
107.5°	46.7	62.8	222.6	328.4	178.4	103.2	106.8	104.3	104.4
110°	65.7	99.7	364.3	384.2	216.4	122.6	121.4	119.5	116.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	119.1	208.7	507.5	433.7	256.6	143.5	133.1	141.4	135.9
115°	333.3	505.5	655.5	501.6	315.0	179.3	150.6	162.6	166.2
117.5°	687.3	765.3	729.3	561.9	370.9	221.1	167.4	176.0	181.9
120°	854.6	851.9	765.1	599.2	408.1	251.9	179.9	185.4	189.9
122.5°	915.9	890.4	795.1	632.8	443.9	284.8	196.7	193.5	198.7
125°	969.6	934.8	838.1	678.8	496.7	335.1	230.1	206.4	210.0
127.5°	1004.5	966.3	875.0	721.0	547.8	388.4	274.3	226.9	222.6
130°	1023.5	986.0	898.4	746.7	580.7	422.7	304.9	247.2	236.5
132.5°	1039.6	1004.2	920.3	771.7	612.8	457.7	337.8	272.6	256.9
135°	1061.8	1027.9	950.4	808.2	657.4	508.3	387.1	319.0	296.7
137.5°	1078.8	1047.9	974.2	841.0	700.6	558.2	438.8	370.3	347.5
140°	1088.3	1058.9	988.8	861.6	727.7	590.2	473.9	404.0	382.6
142.5°	1097.1	1068.3	1001.2	880.0	753.2	620.8	509.6	438.3	416.9
145°	1107.5	1079.8	1019.8	906.7	789.8	666.6	563.3	490.7	470.2
147.5°	1112.4	1086.9	1033.2	930.5	822.4	708.9	613.2	543.5	522.8
150°	1113.9	1089.8	1039.0	944.5	843.6	736.5	644.6	579.3	557.9
152.5°	1114.6	1089.8	1043.4	956.4	862.6	761.2	675.3	613.6	593.6
155°	1111.1	1088.8	1048.1	970.5	888.4	796.4	719.5	663.4	645.5
157.5°	1103.1	1086.7	1048.9	982.4	909.9	829.4	761.5	710.1	693.3
160°	1096.5	1082.2	1048.1	989.1	923.1	849.0	787.0	740.1	724.0
162.5°	1087.8	1073.5	1044.5	992.2	934.7	867.1	811.1	766.5	753.2
165°	1073.7	1060.3	1039.9	996.9	950.4	894.2	845.5	806.9	796.2
167.5°	1055.8	1047.4	1029.9	998.8	963.0	917.5	876.9	845.4	836.3
170°	1042.7	1036.4	1022.6	998.2	969.6	931.2	896.6	868.1	861.9
172.5°	1025.9	1022.5	1013.1	995.4	974.7	943.5	914.1	889.3	883.1
175°	999.8	1001.5	997.9	991.3	980.6	959.2	938.6	921.1	914.8
177.5°	980.2	980.2	980.9	981.6	980.2	970.9	960.5	950.3	951.0
180°	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4

(END OF REPORT)