

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: P511786

Luminaire Tested: **SQW-F-075U-050D-835-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511786  
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-835-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

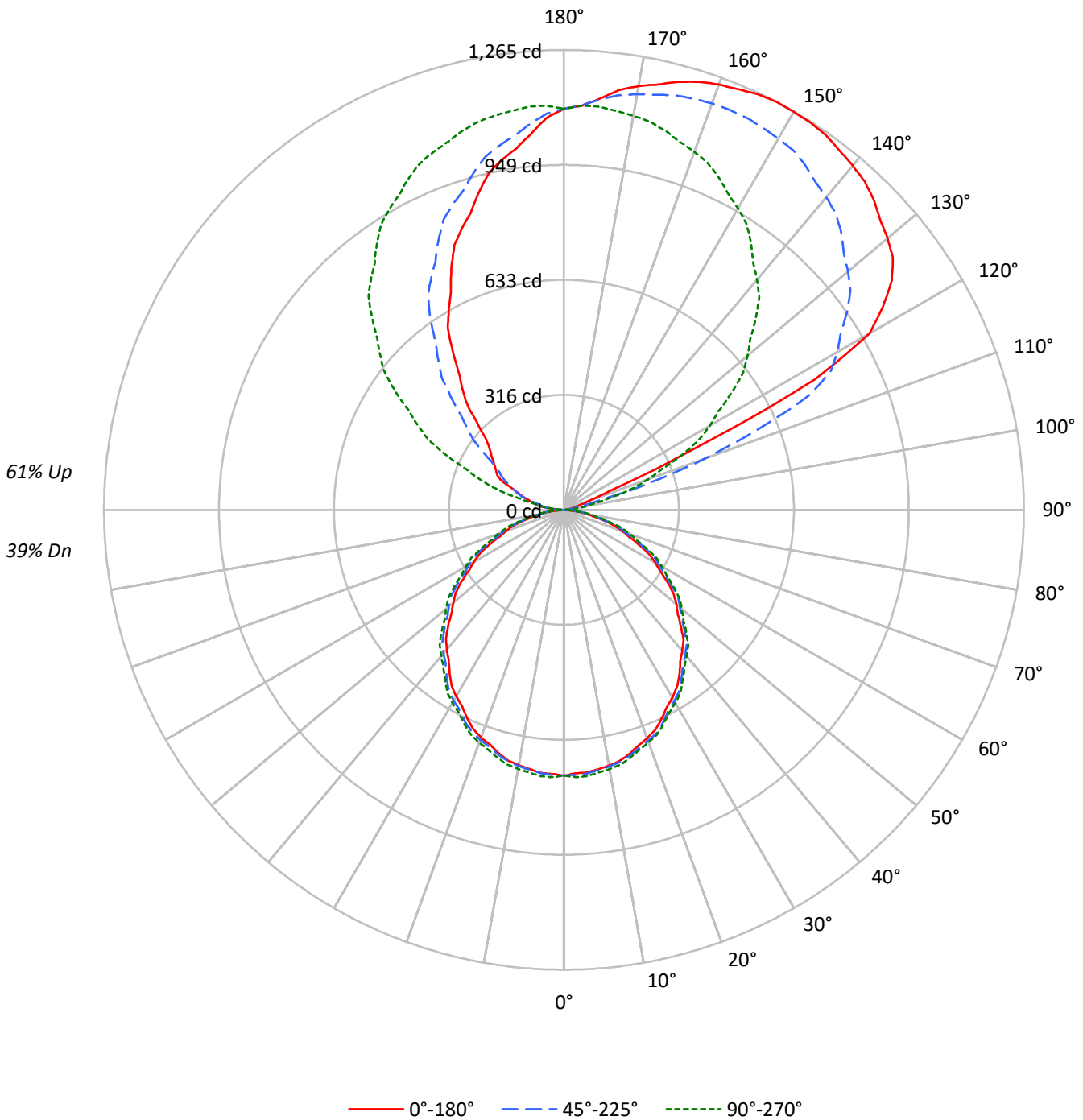
Lumens per Lamp: N/A  
Luminaire Lumens: 5077.0 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Indirect

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°	23605	23605	23605
5°	23501	23825	23533
10°	23412	23740	23379
15°	23235	23602	23168
20°	22955	23402	22887
25°	22625	23124	22483
30°	22223	22857	22074
35°	21839	22470	21603
40°	21330	22131	21119
45°	20779	21738	20550
50°	20246	21250	19944
55°	19592	20718	19311
60°	18729	20086	18471
65°	17498	19102	17268
70°	16145	18033	15956
75°	14223	16344	14099
80°	11530	13761	11716
85°	6669	9263	7781



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.0	1.4
10°-20°	196.7	3.9
20°-30°	294.7	5.8
30°-40°	350.3	6.9
40°-50°	358.5	7.1
50°-60°	319.7	6.3
60°-70°	237.2	4.7
70°-80°	129.9	2.6
80°-90°	31.3	0.6
90°-100°	27.8	0.5
100°-110°	128.9	2.5
110°-120°	375.9	7.4
120°-130°	546.3	10.8
130°-140°	584.5	11.5
140°-150°	559.2	11.0
150°-160°	461.1	9.1
160°-170°	301.6	5.9
170°-180°	104.6	2.1
0°-30°	560.4	11.0
0°-40°	910.7	17.9
0°-60°	1588.9	31.3
0°-90°	1987.3	39.1
90°-120°	532.6	10.5
90°-150°	2222.6	43.8
90°-180°	3090.0	60.9
0°-180°	5077.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	731	731	731	731	731	
5°	725	728	735	727	726	69
15°	695	700	706	697	693	196
25°	635	645	649	643	631	292
35°	554	564	570	562	548	346
45°	455	469	476	465	450	351
55°	348	360	368	359	343	310
65°	229	240	250	239	226	227
75°	114	122	131	122	113	121
85°	18	24	25	26	21	25
90°	2	2	1	4	8	1
95°	8	10	21	34	31	9
105°	34	100	143	91	98	42
115°	378	744	358	171	189	444
125°	1101	951	564	261	238	973
135°	1205	1079	746	439	337	930
145°	1257	1158	896	640	534	787
155°	1261	1190	1008	817	733	583
165°	1219	1180	1079	960	904	346
175°	1135	1133	1113	1065	1038	110
180°	1103	1103	1103	1103	1103	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0
2.5°	725.4	728.5	729.4	728.8	735.8	729.5	729.4	728.6	727.0
5°	725.0	726.0	728.0	726.2	735.0	726.2	727.0	725.0	726.0
7.5°	719.6	720.6	721.8	720.8	728.8	720.8	721.4	719.4	719.4
10°	714.0	715.0	717.0	715.2	724.0	715.2	715.0	713.0	713.0
12.5°	707.6	708.6	710.6	708.8	717.6	708.8	708.6	705.8	706.6
15°	695.0	697.9	700.0	697.2	706.0	697.2	697.0	695.0	693.0
17.5°	680.0	682.9	686.4	683.4	691.4	682.4	683.4	679.0	677.2
20°	668.0	670.9	676.0	672.2	681.0	671.2	673.0	667.0	666.0
22.5°	655.2	657.4	664.8	661.0	669.0	660.0	661.0	653.4	652.4
25°	635.0	637.0	645.0	642.2	649.0	640.2	643.0	632.0	631.0
27.5°	612.0	614.9	622.2	620.4	628.2	618.4	621.2	609.8	608.0
30°	596.0	598.9	607.0	605.2	613.0	603.2	606.0	593.0	592.0
32.5°	578.4	582.9	590.2	589.9	596.2	587.2	588.4	576.2	574.4
35°	554.0	556.9	564.0	564.1	570.0	562.2	562.0	550.0	548.0
37.5°	526.0	529.9	537.4	538.5	544.2	535.6	534.2	523.3	520.2
40°	506.0	509.9	519.0	520.1	525.0	517.2	515.0	504.9	501.0
42.5°	486.8	490.7	499.8	500.9	505.8	498.8	495.0	485.7	480.2
45°	455.0	459.9	469.0	472.1	476.0	469.2	465.0	453.9	450.0
47.5°	424.6	428.5	437.8	442.8	444.6	439.9	434.6	422.7	418.6
50°	403.0	406.9	417.0	422.0	423.0	419.1	413.0	401.9	397.0
52.5°	380.6	384.5	395.4	400.4	401.4	397.5	391.4	380.3	375.4
55°	348.0	351.9	360.0	368.0	368.0	366.0	359.0	346.9	343.0
57.5°	313.2	316.9	327.0	334.0	334.2	331.5	324.2	313.1	309.2
60°	290.0	292.9	303.0	310.0	311.0	309.0	301.0	289.9	286.0
62.5°	264.4	268.1	278.2	286.0	287.8	285.1	276.2	265.9	260.4
65°	229.0	231.0	240.0	248.0	250.0	247.1	239.0	228.9	226.0
67.5°	194.2	195.4	204.0	212.0	214.2	211.1	203.0	196.1	191.4
70°	171.0	173.0	180.0	188.1	191.0	187.1	179.0	172.9	169.0
72.5°	147.8	149.8	156.8	164.1	167.0	163.9	156.6	150.5	146.6
75°	114.0	115.0	122.0	129.0	131.0	128.1	122.0	116.9	113.0
77.5°	82.0	83.0	90.4	94.6	96.4	94.6	89.8	84.9	82.2
80°	62.0	63.0	68.0	73.0	74.0	73.0	69.0	65.0	63.0
82.5°	42.8	43.8	49.6	53.0	53.2	53.8	50.6	47.3	44.6
85°	18.0	19.0	24.0	27.0	25.0	27.9	26.0	23.0	21.0
87.5°	2.8	2.8	5.2	7.4	7.4	8.4	7.2	7.0	5.7
90°	2.1	2.1	2.1	1.0	1.0	2.0	4.1	7.3	8.3
92.5°	3.7	4.5	4.6	5.2	6.0	11.9	8.3	9.7	9.9
95°	8.3	8.3	10.4	24.8	20.7	30.9	34.2	32.1	31.1
97.5°	13.7	14.7	20.1	65.1	46.6	41.4	56.4	60.2	56.6
100°	18.7	19.7	30.1	102.8	67.4	53.2	62.2	73.6	75.7
102.5°	24.5	26.3	46.6	158.6	94.7	67.6	71.3	81.9	84.8
105°	34.2	39.3	99.5	262.6	143.0	89.3	91.2	94.4	98.5
107.5°	53.1	71.3	252.7	372.8	202.5	117.2	121.3	118.4	118.6
110°	74.6	113.1	413.5	436.1	245.6	139.2	137.8	135.7	132.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	135.1	236.9	576.0	492.3	291.2	162.9	151.1	160.5	154.2
115°	378.3	573.9	744.1	569.4	357.6	203.5	171.0	184.6	188.6
117.5°	780.2	868.8	827.9	637.9	421.0	250.9	190.1	199.8	206.5
120°	970.1	967.0	868.5	680.1	463.3	285.9	204.2	210.5	215.6
122.5°	1039.7	1010.7	902.5	718.3	503.9	323.3	223.2	219.6	225.5
125°	1100.7	1061.1	951.4	770.5	563.8	380.4	261.2	234.3	238.4
127.5°	1140.3	1096.9	993.3	818.4	621.8	440.9	311.3	257.5	252.7
130°	1161.8	1119.3	1019.8	847.6	659.2	479.8	346.2	280.6	268.4
132.5°	1180.1	1139.9	1044.7	876.0	695.6	519.5	383.5	309.5	291.6
135°	1205.3	1166.8	1078.9	917.5	746.2	577.0	439.4	362.2	336.8
137.5°	1224.6	1189.6	1105.9	954.6	795.3	633.6	498.1	420.4	394.5
140°	1235.4	1202.0	1122.4	978.0	826.0	670.0	537.9	458.6	434.3
142.5°	1245.4	1212.7	1136.5	998.9	855.0	704.7	578.5	497.5	473.2
145°	1257.2	1225.8	1157.7	1029.3	896.5	756.7	639.5	557.1	533.8
147.5°	1262.8	1233.8	1172.8	1056.2	933.6	804.7	696.1	617.0	593.5
150°	1264.4	1237.1	1179.4	1072.2	957.6	836.0	731.7	657.6	633.2
152.5°	1265.3	1237.1	1184.4	1085.6	979.2	864.1	766.5	696.6	673.9
155°	1261.3	1236.0	1189.8	1101.7	1008.4	904.1	816.7	753.0	732.7
157.5°	1252.2	1233.5	1190.6	1115.2	1032.9	941.5	864.4	806.1	787.1
160°	1244.7	1228.5	1189.8	1122.8	1047.8	963.7	893.4	840.1	821.9
162.5°	1234.8	1218.6	1185.7	1126.3	1061.1	984.3	920.7	870.0	855.0
165°	1218.8	1203.6	1180.5	1131.6	1078.9	1015.1	959.7	915.9	903.8
167.5°	1198.5	1189.0	1169.1	1133.7	1093.2	1041.5	995.4	959.7	949.4
170°	1183.6	1176.5	1160.8	1133.1	1100.7	1057.1	1017.8	985.5	978.4
172.5°	1164.5	1160.7	1150.0	1130.0	1106.5	1071.0	1037.7	1009.5	1002.4
175°	1134.9	1136.9	1132.8	1125.3	1113.1	1088.8	1065.4	1045.6	1038.5
177.5°	1112.7	1112.7	1113.5	1114.3	1112.7	1102.2	1090.3	1078.7	1079.5
180°	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7

(END OF REPORT)