

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: P522524

Luminaire Tested: **SQW-F-050U-075D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522524  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-050U-075D-93050-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

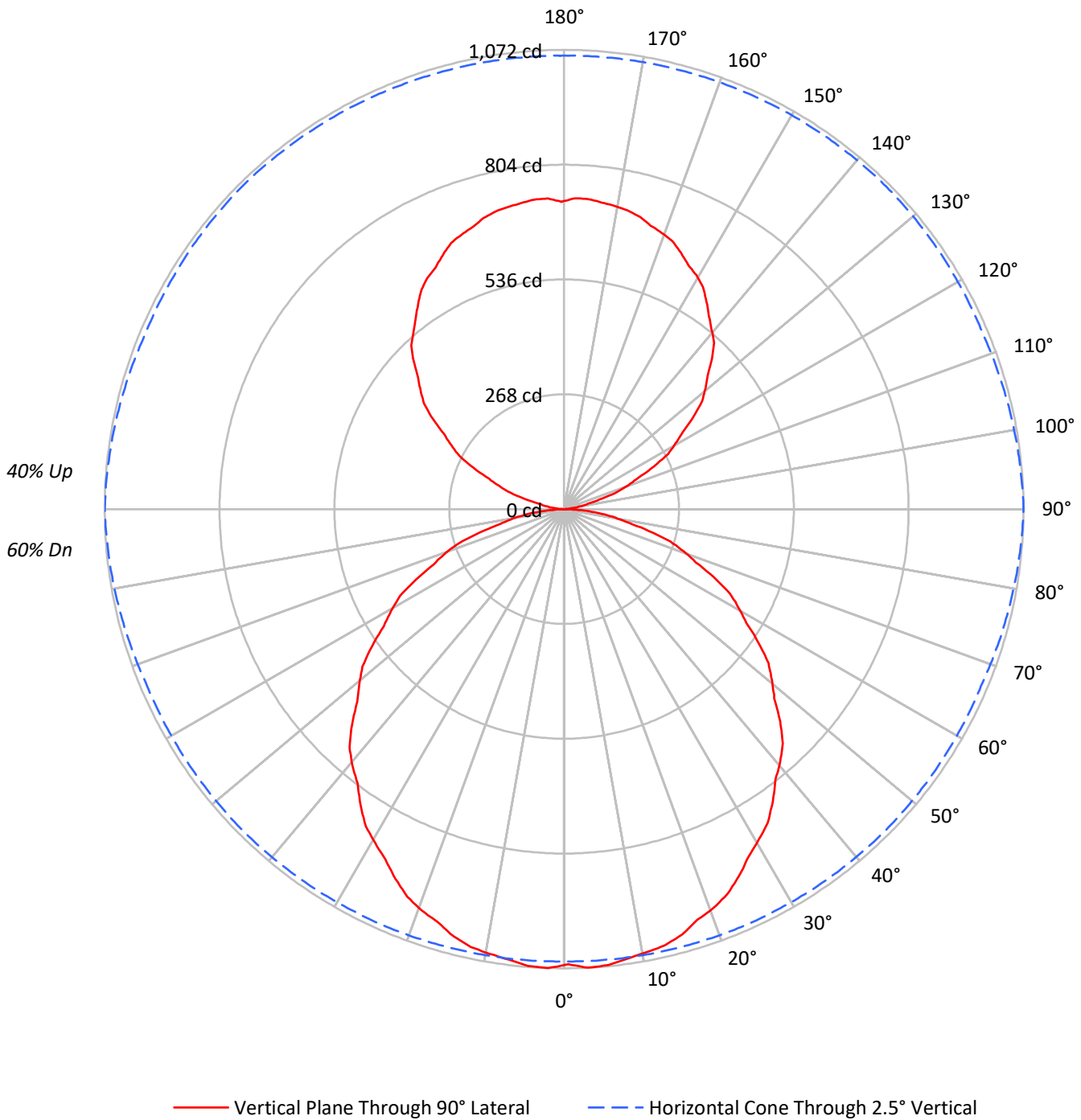
Lumens per Lamp: N/A  
Luminaire Lumens: 4957.0 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 48.8  
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	50	30	10	0	
RCR																						
0	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60				
1	100	95	91	88	93	89	86	83	78	75	73	67	65	63	57	56	55	50				
2	91	83	77	71	84	78	72	68	68	64	60	59	56	53	50	48	46	42				
3	83	73	65	59	77	68	62	56	60	55	50	52	48	44	44	41	39	35				
4	76	64	56	50	70	60	53	48	53	47	43	46	42	38	40	36	33	30				
5	69	57	49	43	65	54	46	41	47	41	37	41	37	33	36	32	29	26				
6	64	51	43	37	59	48	41	35	43	37	32	37	32	29	32	28	25	23				
7	59	46	38	33	55	44	36	31	39	33	28	34	29	25	29	25	23	20				
8	55	42	34	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18				
9	51	39	31	26	48	36	29	25	32	27	22	28	24	20	25	21	18	16				
10	48	35	28	23	45	33	27	22	30	24	20	26	22	18	23	19	16	15				

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

	0°	90°	180°
0°	17147	17147	17147
5°	17083	17326	17180
10°	16903	17247	17198
15°	16816	17217	17083
20°	16563	17079	16993
25°	16265	16889	16853
30°	15959	16686	16593
35°	15670	16517	16340
40°	15344	16356	16145
45°	15002	16121	15892
50°	14619	15774	15573
55°	14159	15482	15144
60°	13595	15113	14725
65°	12837	14632	14136
70°	11991	13973	13454
75°	10605	12726	12227
80°	8833	11158	10786
85°	5743	8707	8336



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.4	2.0
10°-20°	286.7	5.8
20°-30°	431.4	8.7
30°-40°	515.3	10.4
40°-50°	530.2	10.7
50°-60°	476.7	9.6
60°-70°	363.2	7.3
70°-80°	206.0	4.2
80°-90°	54.0	1.1
90°-100°	18.1	0.4
100°-110°	80.3	1.6
110°-120°	230.8	4.7
120°-130°	351.6	7.1
130°-140°	381.7	7.7
140°-150°	365.0	7.4
150°-160°	300.7	6.1
160°-170°	196.8	4.0
170°-180°	68.1	1.4
0°-30°	818.5	16.5
0°-40°	1333.8	26.9
0°-60°	2340.7	47.2
0°-90°	2963.9	59.8
90°-120°	329.3	6.6
90°-150°	1427.5	28.8
90°-180°	1993.0	40.2
0°-180°	4957.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1062	1062	1062	1062	1062	
5°	1054	1055	1069	1062	1060	100
15°	1006	1011	1030	1025	1022	283
25°	913	933	948	954	946	420
35°	795	816	838	843	829	497
45°	657	676	706	703	696	506
55°	503	523	550	547	538	449
65°	336	357	383	380	370	333
75°	170	184	204	202	196	181
85°	31	40	47	50	45	40
90°	0	0	0	0	0	1
95°	3	4	13	28	27	4
105°	18	49	92	64	68	21
115°	173	455	233	109	122	239
125°	688	599	371	184	156	604
135°	758	686	492	305	243	585
145°	793	738	587	434	370	497
155°	801	768	657	544	496	371
165°	784	764	704	633	602	223
175°	738	740	726	694	677	71
180°	717	717	717	717	717	



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CATALOG NUMBER: SQW-F-050U-075D-93050-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1062.0	1062.0	1062.0	1062.0	1062.0	1062.0	1062.0	1062.0	1062.0
2.5°	1055.6	1058.7	1060.4	1056.7	1071.6	1059.1	1063.6	1060.3	1058.0
5°	1054.0	1053.0	1055.0	1051.4	1069.0	1055.3	1062.0	1057.1	1060.0
7.5°	1043.8	1041.8	1045.4	1045.9	1059.2	1049.2	1053.2	1051.9	1055.4
10°	1031.0	1033.0	1039.0	1040.3	1052.0	1041.2	1046.0	1047.0	1049.0
12.5°	1025.4	1021.9	1028.6	1032.3	1044.8	1031.7	1040.4	1039.9	1043.4
15°	1006.0	1005.0	1011.0	1014.4	1030.0	1018.3	1025.0	1024.9	1022.0
17.5°	981.6	981.6	989.6	991.2	1007.6	999.0	1005.6	1002.6	1001.8
20°	964.0	964.0	976.0	974.4	994.0	986.2	992.0	985.1	989.0
22.5°	944.0	944.8	959.2	956.8	975.6	970.9	977.6	967.5	972.2
25°	913.0	915.9	933.0	931.4	948.0	943.1	954.0	942.1	946.0
27.5°	880.0	884.1	901.2	901.0	917.4	913.9	926.4	912.6	913.2
30°	856.0	860.9	878.0	879.4	895.0	889.1	904.0	891.0	890.0
32.5°	832.8	836.9	854.0	857.0	872.6	869.1	880.8	867.8	866.0
35°	795.0	799.9	816.0	821.4	838.0	833.1	843.0	831.0	829.0
37.5°	756.0	759.1	776.2	780.9	800.8	796.7	803.0	791.4	791.6
40°	728.0	731.9	749.0	754.5	776.0	771.1	775.0	765.0	766.0
42.5°	700.0	703.9	720.2	728.1	748.0	743.1	746.2	737.8	738.0
45°	657.0	659.9	676.0	686.4	706.0	701.1	703.0	695.0	696.0
47.5°	612.4	614.6	629.2	643.8	660.0	657.8	658.2	648.3	651.2
50°	582.0	584.9	598.0	613.3	628.0	629.0	627.0	617.1	620.0
52.5°	550.8	553.0	568.4	581.4	596.8	598.6	595.0	585.8	588.0
55°	503.0	505.0	523.0	536.3	550.0	551.0	547.0	540.0	538.0
57.5°	453.8	456.7	473.6	488.1	501.6	499.8	497.8	489.6	488.0
60°	421.0	423.9	440.0	455.3	468.0	467.0	465.0	456.0	456.0
62.5°	387.4	391.1	408.0	421.7	434.4	434.2	431.4	424.8	423.2
65°	336.0	339.9	357.0	369.3	383.0	383.0	380.0	372.0	370.0
67.5°	286.8	290.7	304.8	317.5	331.2	330.0	327.2	322.1	319.4
70°	254.0	257.9	268.0	282.3	296.0	294.0	292.0	287.0	285.0
72.5°	218.8	223.5	233.6	246.3	259.2	258.8	256.8	254.1	249.8
75°	170.0	172.9	184.0	195.2	204.0	205.0	202.0	200.9	196.0
77.5°	123.8	127.5	136.6	146.3	152.8	155.9	154.2	151.7	148.0
80°	95.0	97.9	107.0	115.1	120.0	123.9	123.0	118.9	116.0
82.5°	67.8	70.7	78.2	85.5	89.6	93.5	92.6	90.1	85.6
85°	31.0	33.0	40.0	45.0	47.0	51.9	50.0	47.9	45.0
87.5°	4.8	5.6	10.4	15.2	14.4	19.1	16.8	13.5	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.5	0.5	1.1	1.6	2.7	10.0	11.2	10.1	9.6
95°	2.7	2.7	4.0	12.7	12.7	20.5	28.1	27.4	27.4
97.5°	6.0	6.7	9.4	38.7	28.9	28.1	40.1	44.1	44.5
100°	8.7	9.3	14.7	63.0	42.8	36.2	42.8	52.2	54.1
102.5°	11.9	13.1	23.3	99.5	60.4	43.4	50.3	57.0	58.9
105°	18.0	20.0	48.8	166.7	92.2	57.6	63.5	66.8	67.5
107.5°	27.1	34.4	133.5	234.5	130.8	76.2	79.7	81.9	82.7
110°	36.8	52.4	231.9	275.4	159.7	90.5	88.2	94.2	92.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	61.9	107.9	340.4	308.9	188.6	107.3	96.2	106.0	106.8
115°	173.1	297.2	455.1	356.7	232.6	136.5	108.9	118.4	122.3
117.5°	434.4	516.8	515.5	400.9	274.8	170.9	124.2	128.7	133.1
120°	584.1	596.5	546.0	430.8	302.1	195.5	137.0	135.1	139.0
122.5°	639.7	629.6	569.0	457.0	329.9	221.3	153.6	142.0	145.4
125°	687.6	668.0	598.8	494.4	370.9	259.2	183.8	157.0	156.4
127.5°	714.2	693.7	627.9	526.8	408.6	298.5	218.1	178.3	172.3
130°	727.1	708.1	648.2	546.7	433.7	325.2	243.2	196.9	187.8
132.5°	742.6	722.1	662.6	567.1	457.8	350.3	268.4	219.3	208.6
135°	757.8	738.9	686.3	593.8	491.8	387.3	304.7	256.3	242.6
137.5°	771.4	754.1	708.0	614.7	522.6	423.7	343.2	296.1	279.3
140°	780.5	761.6	717.0	630.8	541.3	446.5	368.9	321.8	308.7
142.5°	783.7	772.1	726.7	644.3	562.1	468.4	394.5	345.9	333.9
145°	793.2	785.4	738.4	660.6	586.7	501.1	433.7	383.3	370.2
147.5°	799.4	787.6	749.3	678.1	610.8	530.4	469.3	420.9	408.7
150°	799.9	790.8	757.8	688.9	626.8	551.7	491.2	445.5	434.4
152.5°	804.2	792.9	762.1	698.0	638.6	569.7	513.1	470.6	458.4
155°	801.2	793.4	768.5	709.8	656.9	592.9	544.0	506.3	495.8
157.5°	801.2	791.6	769.3	719.0	674.5	618.3	572.8	538.0	530.2
160°	795.9	792.0	769.8	725.4	683.6	632.7	592.1	560.4	550.0
162.5°	793.8	787.2	770.9	729.8	691.6	644.3	608.6	578.7	570.8
165°	784.5	778.7	764.5	731.8	704.3	665.1	632.8	606.0	602.1
167.5°	774.0	769.4	760.1	735.0	712.8	680.7	653.6	631.9	626.6
170°	766.5	759.3	755.8	736.6	717.0	690.3	666.9	647.4	641.5
172.5°	753.7	752.7	749.9	732.5	720.8	698.7	679.2	661.4	657.6
175°	738.4	738.4	740.4	729.6	725.7	707.4	693.7	682.8	676.9
177.5°	720.8	721.3	725.6	725.1	725.6	715.1	711.2	701.0	699.9
180°	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0

(END OF REPORT)