

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: P511765

Luminaire Tested: **SQW-F-050U-075D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511765  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-050U-075D-935-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

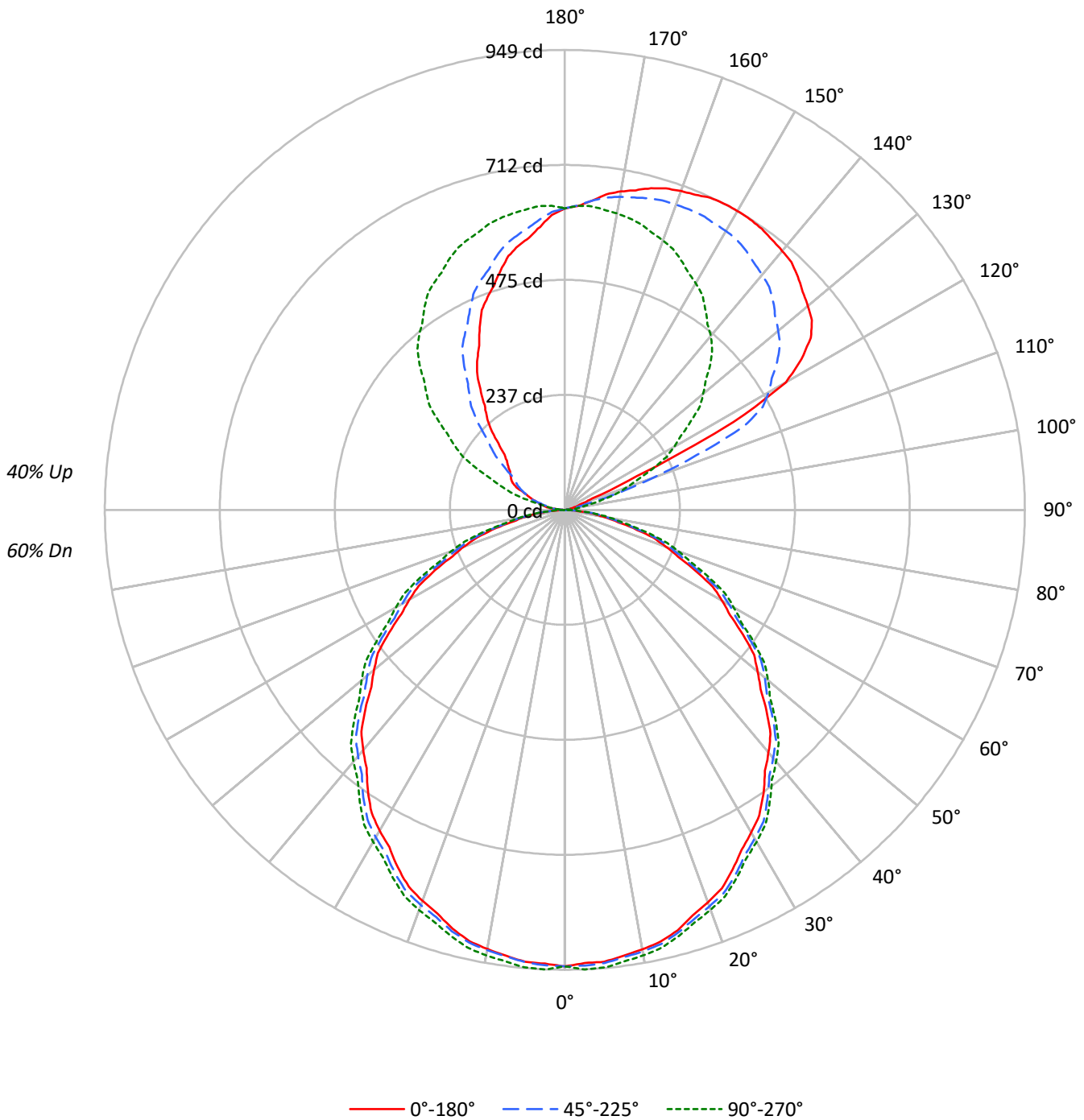
Lumens per Lamp: N/A  
Luminaire Lumens: 4300.9 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 41.6  
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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	35
4	76	65	57	50	70	61	54	48	53	48	43	46	42	38	40	36	34	30
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	43	37	60	49	41	36	43	37	32	37	33	29	32	29	26	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	26	30	26	23	20
8	55	42	35	29	51	40	33	28	35	30	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	27	22	19	23	19	17	15

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

	0°	90°	180°
0°	30419	30419	30419
5°	30344	30726	30344
10°	30196	30613	30170
15°	30028	30422	29914
20°	29619	30199	29502
25°	29178	29869	29028
30°	28678	29498	28491
35°	28158	29057	27926
40°	27552	28585	27269
45°	26885	28076	26574
50°	26098	27495	25802
55°	25261	26782	24929
60°	24180	25982	23909
65°	22747	24940	22556
70°	21017	23490	20866
75°	18303	21048	18303
80°	14747	17573	15212
85°	8448	11856	10004



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.0	2.1
10°-20°	253.8	5.9
20°-30°	380.3	8.8
30°-40°	452.1	10.5
40°-50°	462.8	10.8
50°-60°	412.7	9.6
60°-70°	308.3	7.2
70°-80°	168.1	3.9
80°-90°	39.8	0.9
90°-100°	15.3	0.4
100°-110°	69.8	1.6
110°-120°	204.7	4.8
120°-130°	308.2	7.2
130°-140°	331.0	7.7
140°-150°	315.8	7.3
150°-160°	259.9	6.0
160°-170°	170.2	4.0
170°-180°	59.0	1.4
0°-30°	723.1	16.8
0°-40°	1175.2	27.3
0°-60°	2050.7	47.7
0°-90°	2567.0	59.7
90°-120°	289.8	6.7
90°-150°	1244.8	28.9
90°-180°	1734.0	40.3
0°-180°	4300.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	942	942	942	942	942	
5°	936	939	948	937	936	89
15°	898	903	910	900	895	253
25°	819	832	838	828	815	377
35°	714	729	737	724	708	446
45°	589	606	615	600	582	454
55°	449	466	476	461	443	400
65°	298	313	326	311	295	295
75°	147	158	169	159	147	157
85°	23	30	32	33	27	32
90°	1	1	1	2	4	1
95°	4	5	11	19	18	5
105°	19	45	80	53	56	22
115°	164	407	199	100	110	220
125°	619	535	317	149	138	544
135°	680	608	424	252	194	525
145°	708	652	506	361	304	444
155°	710	671	568	461	415	328
165°	687	665	610	543	512	195
175°	640	640	629	601	586	62
180°	622	622	622	622	622	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	942.0	942.0	942.0	942.0	942.0	942.0	942.0	942.0	942.0
2.5°	936.0	940.6	941.4	940.2	949.4	940.9	940.7	940.6	937.3
5°	936.1	936.1	938.7	937.2	947.9	937.2	937.0	935.3	936.1
7.5°	928.4	929.4	931.2	929.6	939.7	928.8	929.4	926.9	928.2
10°	920.9	922.6	925.2	922.9	933.6	922.0	922.6	920.1	920.1
12.5°	912.8	914.5	917.7	914.8	925.5	914.6	914.5	911.3	911.3
15°	898.2	899.8	903.2	900.1	910.0	898.4	899.9	895.6	894.8
17.5°	877.4	880.9	885.4	882.2	892.3	880.6	881.3	875.5	874.1
20°	861.9	866.0	871.2	868.1	878.8	866.4	867.8	859.4	858.5
22.5°	845.7	849.2	856.3	853.2	863.3	851.5	853.0	841.8	841.7
25°	818.9	822.2	831.5	829.2	838.3	826.8	828.2	815.5	814.7
27.5°	790.1	794.3	803.7	801.6	810.6	798.3	799.7	786.0	784.3
30°	769.1	774.1	783.5	782.0	791.1	778.7	780.1	765.7	764.1
32.5°	746.9	753.1	762.6	761.7	770.2	758.4	757.8	744.1	741.8
35°	714.3	719.3	728.7	729.7	737.1	726.4	724.4	710.9	708.4
37.5°	678.6	683.7	693.1	695.2	701.7	691.1	688.0	674.5	671.8
40°	653.6	659.4	668.8	672.3	678.1	668.2	663.7	650.2	646.9
42.5°	628.0	634.4	644.5	648.0	653.1	643.2	638.1	625.2	621.2
45°	588.7	595.3	606.4	610.7	614.8	605.7	599.6	586.0	581.9
47.5°	547.8	554.4	565.9	571.2	574.3	566.9	559.8	546.2	541.3
50°	519.5	526.1	538.9	544.9	547.3	539.9	532.2	518.6	513.6
52.5°	491.8	497.8	510.6	517.2	519.0	512.9	504.5	491.5	485.9
55°	448.7	454.4	466.4	474.0	475.7	470.7	461.3	447.7	442.8
57.5°	404.1	409.9	421.7	430.2	432.0	427.0	416.8	404.9	399.2
60°	374.4	380.2	391.3	399.8	402.3	397.3	387.1	375.2	370.2
62.5°	344.1	348.5	360.3	368.8	372.6	368.3	357.4	344.2	339.9
65°	297.7	302.7	312.9	323.1	326.4	323.1	311.2	299.3	295.2
67.5°	253.0	256.3	265.7	275.7	279.8	276.2	265.5	253.3	250.6
70°	222.6	225.9	235.3	244.7	248.8	243.8	234.5	224.3	221.0
72.5°	190.9	194.2	202.9	212.3	215.7	210.8	202.7	193.9	189.9
75°	146.7	150.0	157.7	165.4	168.7	165.4	158.6	150.9	146.7
77.5°	105.6	108.7	115.4	122.0	123.5	121.3	116.6	109.9	106.8
80°	79.3	81.7	87.7	93.6	94.5	93.6	90.2	84.3	81.8
82.5°	55.7	57.5	63.4	68.0	67.5	69.3	66.0	60.7	58.9
85°	22.8	24.4	29.5	34.5	32.0	36.2	32.9	29.5	27.0
87.5°	2.9	2.9	5.6	9.6	8.9	11.6	9.1	7.2	6.1
90°	0.9	0.9	0.9	0.9	0.9	0.9	1.7	2.6	3.5
92.5°	2.3	2.3	2.3	3.0	3.0	7.0	5.2	4.7	5.6
95°	4.3	4.3	5.2	13.0	11.3	17.2	19.1	18.2	18.2
97.5°	7.6	7.6	9.9	34.5	25.5	23.5	32.1	33.2	32.8
100°	10.4	10.4	14.8	55.2	37.4	30.6	35.6	40.9	42.6
102.5°	13.2	13.9	22.4	85.4	52.6	39.0	40.5	45.7	47.4
105°	19.1	20.8	45.2	143.6	79.9	51.9	53.0	53.9	56.5
107.5°	28.3	34.6	114.5	205.0	112.7	68.1	70.4	67.6	67.8
110°	37.4	51.8	193.7	244.2	136.4	79.5	80.8	77.3	78.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	61.0	102.6	294.5	275.4	161.4	92.9	88.4	91.9	90.0
115°	164.2	267.8	407.4	320.4	198.9	115.7	99.9	107.8	110.3
117.5°	392.3	462.3	460.5	358.4	236.3	143.2	110.5	117.9	122.1
120°	526.4	536.6	485.6	382.0	260.6	162.1	118.1	123.4	127.7
122.5°	578.5	566.3	506.4	403.6	283.5	182.3	128.6	127.6	132.6
125°	619.3	597.2	535.1	433.4	317.0	216.0	149.4	135.6	138.1
127.5°	642.4	618.0	559.7	461.3	351.1	249.7	177.0	148.7	147.1
130°	654.9	631.2	575.0	478.8	372.6	273.3	197.2	159.7	155.5
132.5°	665.4	643.6	588.9	495.6	393.5	296.2	218.7	176.3	168.7
135°	680.1	659.7	608.0	518.2	423.9	328.8	251.9	204.7	193.7
137.5°	692.6	671.9	624.2	539.6	450.1	360.6	284.2	239.4	226.5
140°	697.5	678.8	633.2	552.3	468.2	380.7	305.8	260.4	250.2
142.5°	702.4	684.4	641.6	564.8	483.5	400.1	328.0	282.6	271.7
145°	707.9	690.1	652.3	581.1	505.5	428.2	361.3	315.1	304.0
147.5°	710.9	694.9	660.3	594.9	527.1	454.2	394.2	347.6	337.5
150°	712.3	697.0	664.5	604.0	540.3	471.5	414.3	369.8	360.5
152.5°	712.3	696.3	666.6	611.0	551.4	487.4	433.8	391.4	382.7
155°	710.5	695.2	670.6	619.9	568.1	510.3	461.2	424.5	415.2
157.5°	703.6	694.4	670.6	628.0	582.5	531.7	488.0	455.3	447.0
160°	700.1	691.6	670.6	632.3	591.5	544.8	504.7	474.1	466.4
162.5°	695.2	686.7	669.2	635.2	599.2	556.5	520.7	490.8	485.2
165°	687.1	678.6	665.4	637.8	609.8	573.3	542.9	517.6	511.6
167.5°	675.4	670.7	660.0	638.6	616.2	588.2	561.6	541.4	536.6
170°	667.1	663.7	655.8	638.0	621.1	596.4	574.2	556.7	553.3
172.5°	656.7	654.6	649.6	637.4	624.5	604.7	586.0	569.2	566.5
175°	640.2	641.9	640.2	634.8	628.9	615.3	601.1	588.9	586.3
177.5°	627.5	627.5	628.9	628.9	628.2	621.4	615.0	608.1	609.4
180°	621.9	621.9	621.9	621.9	621.9	621.9	621.9	621.9	621.9

(END OF REPORT)