

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: P522523

Luminaire Tested: **SQW-F-050U-075D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522523  
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 (3000K)  
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 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

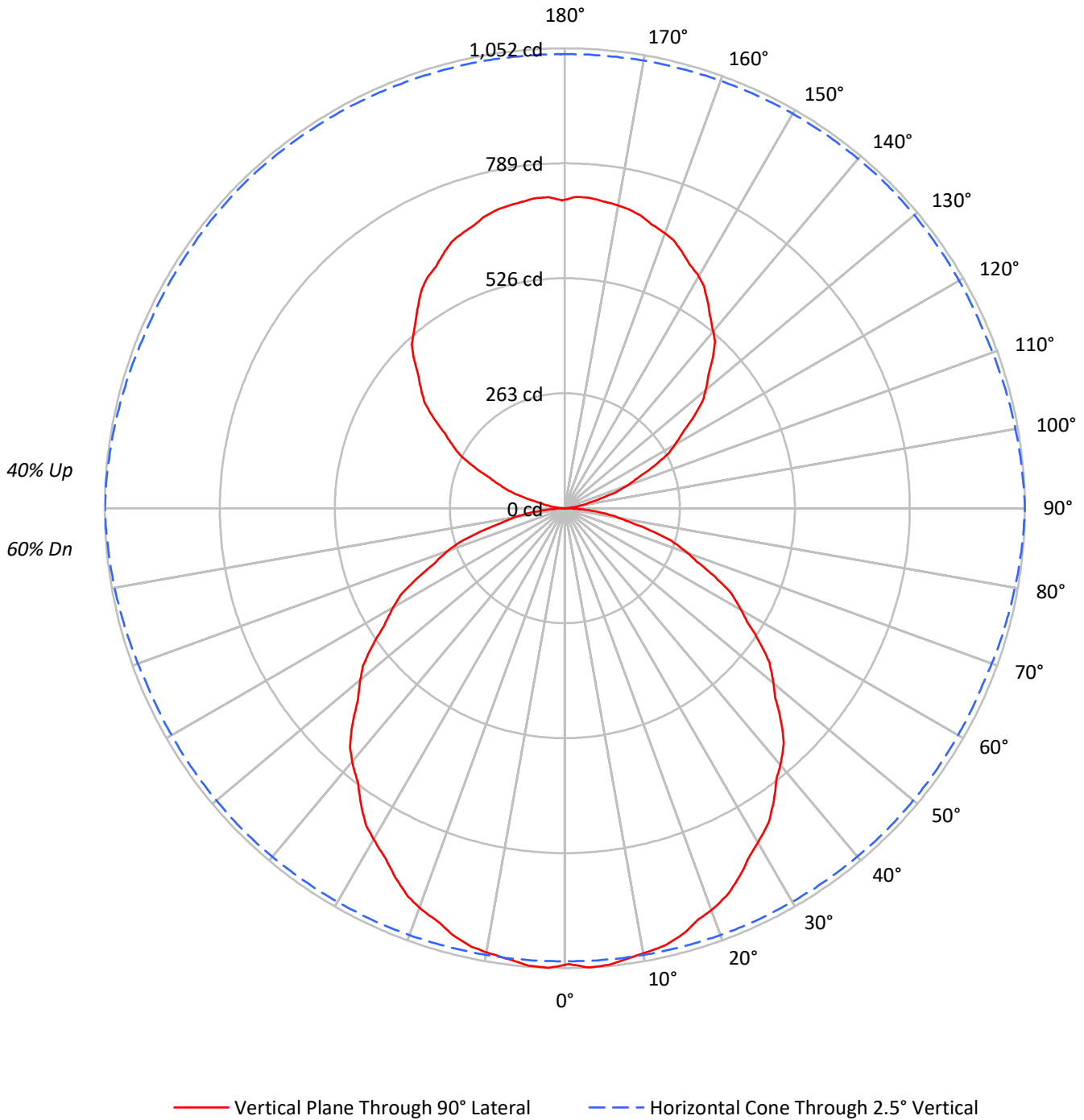
Lumens per Lamp: N/A  
Luminaire Lumens: 4863.8 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

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	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°	16824	16824	16824
5°	16762	17000	16857
10°	16585	16923	16875
15°	16500	16893	16762
20°	16252	16758	16673
25°	15959	16571	16536
30°	15659	16373	16281
35°	15376	16208	16032
40°	15055	16048	15841
45°	14721	15817	15593
50°	14345	15478	15282
55°	13892	15192	14860
60°	13340	14828	14447
65°	12596	14357	13868
70°	11764	13709	13199
75°	10405	12489	11996
80°	8666	10944	10581
85°	5632	8540	8188



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	2.0
10°-20°	281.3	5.8
20°-30°	423.3	8.7
30°-40°	505.6	10.4
40°-50°	520.3	10.7
50°-60°	467.7	9.6
60°-70°	356.3	7.3
70°-80°	202.2	4.2
80°-90°	53.0	1.1
90°-100°	17.8	0.4
100°-110°	78.8	1.6
110°-120°	226.5	4.7
120°-130°	345.0	7.1
130°-140°	374.5	7.7
140°-150°	358.1	7.4
150°-160°	295.0	6.1
160°-170°	193.1	4.0
170°-180°	66.8	1.4
0°-30°	803.1	16.5
0°-40°	1308.7	26.9
0°-60°	2296.7	47.2
0°-90°	2908.2	59.8
90°-120°	323.1	6.6
90°-150°	1400.7	28.8
90°-180°	1956.0	40.2
0°-180°	4863.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1042	1042	1042	1042	1042	
5°	1034	1035	1049	1042	1040	98
15°	987	992	1011	1006	1003	278
25°	896	916	930	936	928	413
35°	780	801	822	827	813	488
45°	645	663	693	690	683	497
55°	494	513	540	537	528	441
65°	330	350	376	373	363	327
75°	167	180	200	198	192	178
85°	30	39	46	49	44	40
90°	0	0	0	0	0	1
95°	3	4	12	28	27	4
105°	18	48	90	62	66	21
115°	170	446	228	107	120	235
125°	675	588	364	180	153	592
135°	744	673	483	299	238	574
145°	778	725	576	426	363	488
155°	786	754	645	534	486	364
165°	770	750	691	621	591	218
175°	725	726	712	681	664	70
180°	704	704	704	704	704	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0
2.5°	1035.8	1038.8	1040.5	1036.9	1051.5	1039.2	1043.6	1040.4	1038.1
5°	1034.2	1033.2	1035.2	1031.6	1048.9	1035.5	1042.0	1037.2	1040.1
7.5°	1024.2	1022.3	1025.8	1026.3	1039.3	1029.5	1033.4	1032.1	1035.6
10°	1011.6	1013.5	1019.5	1020.7	1032.2	1021.7	1026.3	1027.4	1029.3
12.5°	1006.1	1002.7	1009.3	1012.9	1025.2	1012.3	1020.9	1020.3	1023.8
15°	987.1	986.1	992.0	995.3	1010.6	999.1	1005.7	1005.7	1002.8
17.5°	963.2	963.2	971.0	972.5	988.7	980.2	986.7	983.7	983.0
20°	945.9	945.9	957.7	956.1	975.3	967.6	973.4	966.6	970.4
22.5°	926.3	927.0	941.2	938.8	957.3	952.7	959.2	949.3	953.9
25°	895.8	898.7	915.5	913.9	930.2	925.4	936.1	924.4	928.2
27.5°	863.5	867.5	884.3	884.0	900.2	896.7	909.0	895.5	896.0
30°	839.9	844.7	861.5	862.8	878.2	872.4	887.0	874.2	873.3
32.5°	817.2	821.2	838.0	840.9	856.2	852.8	864.3	851.5	849.7
35°	780.1	784.9	800.7	805.9	822.3	817.5	827.2	815.3	813.4
37.5°	741.8	744.9	761.6	766.2	785.8	781.7	787.9	776.5	776.7
40°	714.3	718.2	734.9	740.3	761.4	756.6	760.4	750.6	751.6
42.5°	686.8	690.7	706.7	714.4	733.9	729.1	732.2	723.9	724.1
45°	644.7	647.5	663.3	673.5	692.7	687.9	689.8	682.0	682.9
47.5°	600.9	603.0	617.4	631.7	647.6	645.5	645.8	636.1	639.0
50°	571.1	573.9	586.8	601.8	616.2	617.2	615.2	605.5	608.4
52.5°	540.5	542.6	557.7	570.4	585.6	587.3	583.8	574.8	577.0
55°	493.5	495.5	513.2	526.2	539.7	540.6	536.7	529.8	527.9
57.5°	445.3	448.2	464.7	478.9	492.2	490.4	488.4	480.4	478.8
60°	413.1	416.0	431.7	446.7	459.2	458.2	456.3	447.4	447.4
62.5°	380.1	383.8	400.3	413.8	426.2	426.0	423.3	416.8	415.2
65°	329.7	333.5	350.3	362.4	375.8	375.8	372.9	365.0	363.0
67.5°	281.4	285.2	299.1	311.5	325.0	323.8	321.1	316.1	313.4
70°	249.2	253.1	263.0	277.0	290.4	288.5	286.5	281.6	279.6
72.5°	214.7	219.3	229.2	241.7	254.3	253.9	252.0	249.3	245.1
75°	166.8	169.7	180.5	191.5	200.2	201.1	198.2	197.1	192.3
77.5°	121.5	125.1	134.0	143.6	149.9	153.0	151.3	148.9	145.2
80°	93.2	96.1	105.0	112.9	117.7	121.6	120.7	116.7	113.8
82.5°	66.5	69.4	76.7	83.9	87.9	91.8	90.9	88.4	84.0
85°	30.4	32.3	39.2	44.2	46.1	50.9	49.1	47.0	44.2
87.5°	4.7	5.5	10.2	14.9	14.1	18.7	16.5	13.3	10.2
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	1.0	1.6	2.6	9.8	11.0	10.0	9.4
95°	2.6	2.6	3.9	12.5	12.5	20.2	27.5	26.9	26.9
97.5°	5.9	6.5	9.2	37.9	28.3	27.6	39.3	43.3	43.7
100°	8.5	9.2	14.4	61.8	42.0	35.6	42.0	51.2	53.1
102.5°	11.7	12.8	22.8	97.6	59.3	42.6	49.3	55.9	57.8
105°	17.7	19.6	47.9	163.6	90.5	56.5	62.3	65.6	66.2
107.5°	26.6	33.8	131.0	230.1	128.4	74.8	78.2	80.4	81.2
110°	36.1	51.5	227.5	270.2	156.7	88.8	86.6	92.4	91.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	60.7	105.9	334.0	303.1	185.0	105.3	94.4	104.0	104.8
115°	169.8	291.6	446.5	350.0	228.2	133.9	106.9	116.1	120.0
117.5°	426.2	507.1	505.8	393.4	269.6	167.7	121.8	126.3	130.6
120°	573.1	585.3	535.7	422.7	296.4	191.9	134.4	132.5	136.4
122.5°	627.6	617.8	558.3	448.4	323.7	217.1	150.7	139.3	142.7
125°	674.7	655.5	587.5	485.1	363.9	254.3	180.3	154.1	153.4
127.5°	700.8	680.7	616.1	516.9	400.9	292.9	214.0	174.9	169.0
130°	713.4	694.8	636.0	536.5	425.6	319.1	238.7	193.2	184.3
132.5°	728.6	708.5	650.2	556.5	449.2	343.8	263.3	215.2	204.7
135°	743.6	725.0	673.4	582.6	482.6	380.0	299.0	251.5	238.0
137.5°	756.9	739.9	694.7	603.2	512.8	415.7	336.8	290.5	274.1
140°	765.9	747.3	703.6	619.0	531.1	438.2	361.9	315.8	302.9
142.5°	769.0	757.6	713.0	632.2	551.6	459.6	387.1	339.4	327.6
145°	778.3	770.6	724.6	648.2	575.7	491.7	425.6	376.1	363.3
147.5°	784.4	772.8	735.2	665.3	599.3	520.5	460.4	413.0	401.0
150°	784.9	775.9	743.6	676.0	615.0	541.3	481.9	437.1	426.2
152.5°	789.1	778.0	747.8	684.9	626.6	559.0	503.4	461.7	449.8
155°	786.2	778.5	754.1	696.5	644.6	581.7	533.7	496.8	486.5
157.5°	786.2	776.7	754.8	705.5	661.9	606.7	562.1	527.9	520.2
160°	780.9	777.1	755.4	711.8	670.8	620.8	581.0	549.9	539.6
162.5°	778.8	772.4	756.4	716.1	678.7	632.2	597.2	567.8	560.1
165°	769.8	764.0	750.1	718.0	691.1	652.6	621.0	594.6	590.8
167.5°	759.4	754.9	745.8	721.2	699.4	668.0	641.3	620.0	614.8
170°	752.1	745.0	741.6	722.8	703.6	677.3	654.4	635.2	629.5
172.5°	739.5	738.6	735.8	718.8	707.2	685.6	666.5	648.9	645.2
175°	724.6	724.6	726.5	715.9	712.1	694.1	680.6	670.0	664.2
177.5°	707.2	707.8	712.0	711.4	712.0	701.7	697.8	687.8	686.8
180°	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6

(END OF REPORT)