

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: P522527

Luminaire Tested: **SQW-F-050U-075D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522527  
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 (5000K)  
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 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

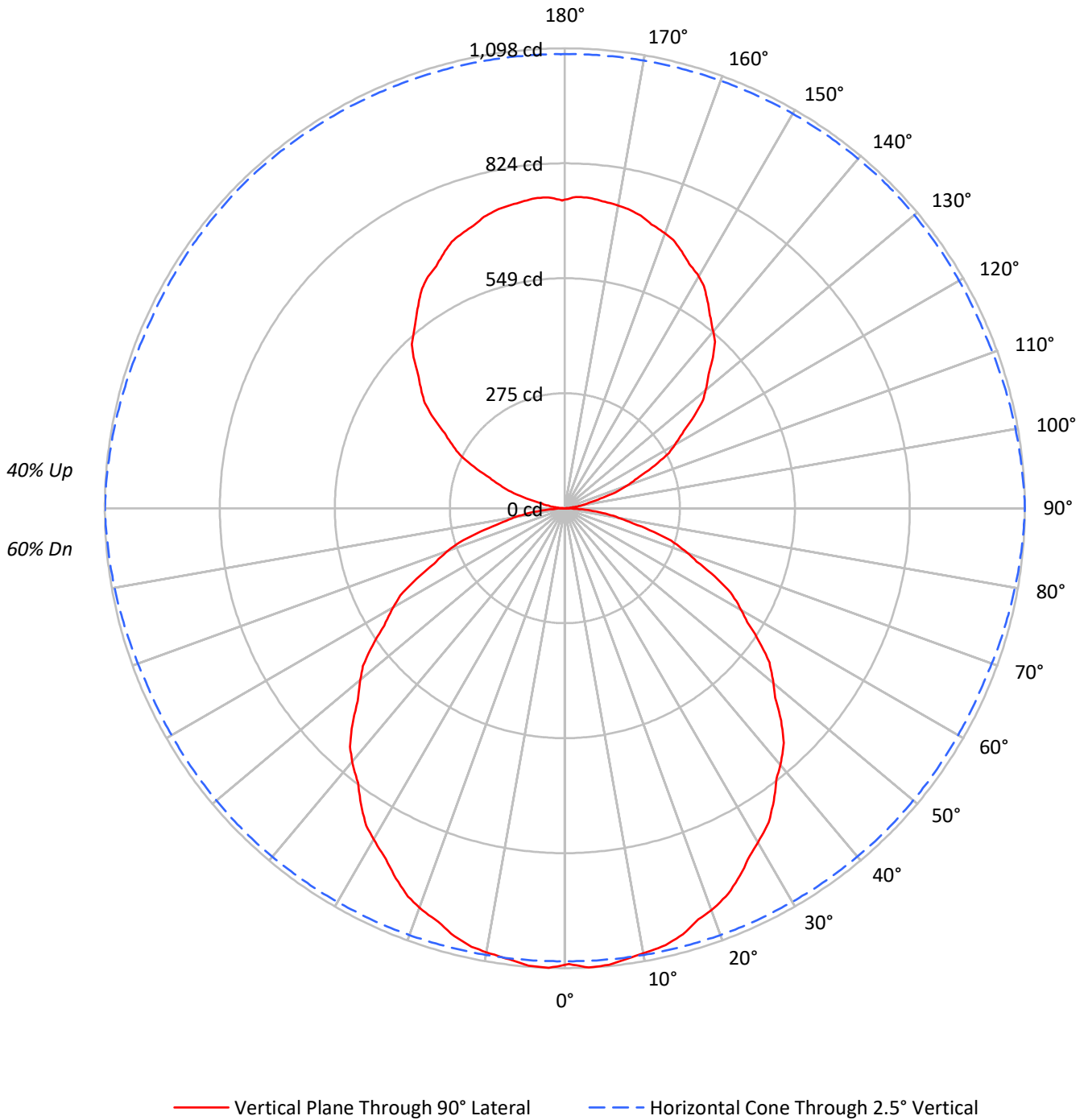
Lumens per Lamp: N/A  
Luminaire Lumens: 5079.5 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 48.7  
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°	17572	17572	17572
5°	17506	17754	17605
10°	17321	17674	17623
15°	17232	17643	17506
20°	16972	17502	17414
25°	16668	17305	17270
30°	16354	17098	17003
35°	16058	16925	16744
40°	15723	16760	16543
45°	15372	16520	16285
50°	14981	16164	15958
55°	14508	15865	15519
60°	13931	15487	15090
65°	13154	14995	14483
70°	12288	14318	13785
75°	10867	13038	12526
80°	9047	11437	11055
85°	5891	8929	8540



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.9	2.0
10°-20°	293.8	5.8
20°-30°	442.0	8.7
30°-40°	528.0	10.4
40°-50°	543.3	10.7
50°-60°	488.5	9.6
60°-70°	372.1	7.3
70°-80°	211.1	4.2
80°-90°	55.3	1.1
90°-100°	18.6	0.4
100°-110°	82.3	1.6
110°-120°	236.5	4.7
120°-130°	360.3	7.1
130°-140°	391.1	7.7
140°-150°	374.0	7.4
150°-160°	308.1	6.1
160°-170°	201.6	4.0
170°-180°	69.8	1.4
0°-30°	838.7	16.5
0°-40°	1366.8	26.9
0°-60°	2398.6	47.2
0°-90°	3037.2	59.8
90°-120°	337.4	6.6
90°-150°	1462.8	28.8
90°-180°	2042.0	40.2
0°-180°	5079.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1088	1088	1088	1088	1088	
5°	1080	1081	1095	1088	1086	102
15°	1031	1036	1056	1050	1047	290
25°	936	956	971	978	969	431
35°	815	836	859	864	850	509
45°	673	693	724	720	713	519
55°	515	536	564	560	551	460
65°	344	366	392	389	379	342
75°	174	188	209	207	201	186
85°	32	41	48	51	46	41
90°	0	0	0	0	0	1
95°	3	4	13	29	28	4
105°	18	50	94	65	69	22
115°	177	466	238	112	125	245
125°	705	614	380	188	160	619
135°	776	703	504	312	249	600
145°	813	757	601	444	379	509
155°	821	788	673	557	508	380
165°	804	783	722	648	617	228
175°	757	759	744	711	694	73
180°	735	735	735	735	735	



TEST NUMBER: P522527

CATALOG NUMBER: SQW-F-050U-075D-93050-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3
2.5°	1081.7	1084.9	1086.6	1082.9	1098.1	1085.3	1089.9	1086.6	1084.2
5°	1080.1	1079.1	1081.1	1077.4	1095.4	1081.4	1088.3	1083.2	1086.2
7.5°	1069.6	1067.6	1071.2	1071.8	1085.4	1075.2	1079.2	1077.9	1081.5
10°	1056.5	1058.5	1064.7	1066.0	1078.0	1067.0	1071.9	1072.9	1074.9
12.5°	1050.7	1047.1	1054.0	1057.8	1070.6	1057.2	1066.1	1065.6	1069.2
15°	1030.9	1029.9	1036.0	1039.4	1055.5	1043.4	1050.3	1050.3	1047.3
17.5°	1005.9	1005.9	1014.1	1015.7	1032.5	1023.7	1030.5	1027.4	1026.6
20°	987.8	987.8	1000.1	998.5	1018.6	1010.6	1016.5	1009.4	1013.5
22.5°	967.3	968.1	982.9	980.5	999.7	994.9	1001.8	991.4	996.2
25°	935.6	938.6	956.1	954.4	971.4	966.4	977.6	965.4	969.4
27.5°	901.8	906.0	923.5	923.2	940.1	936.5	949.3	935.2	935.8
30°	877.2	882.2	899.7	901.1	917.1	911.1	926.3	913.0	912.0
32.5°	853.4	857.6	875.1	878.1	894.2	890.6	902.6	889.2	887.4
35°	814.7	819.7	836.2	841.7	858.7	853.7	863.8	851.5	849.5
37.5°	774.7	777.9	795.4	800.2	820.6	816.4	822.9	811.0	811.2
40°	746.0	750.0	767.5	773.1	795.2	790.2	794.2	783.9	784.9
42.5°	717.3	721.3	738.0	746.1	766.5	761.5	764.6	756.0	756.2
45°	673.2	676.2	692.7	703.4	723.5	718.4	720.4	712.2	713.2
47.5°	627.5	629.7	644.8	659.7	676.3	674.1	674.5	664.3	667.3
50°	596.4	599.4	612.8	628.5	643.5	644.5	642.5	632.3	635.3
52.5°	564.4	566.6	582.5	595.7	611.6	613.4	609.7	600.3	602.5
55°	515.4	517.4	535.9	549.6	563.6	564.6	560.5	553.3	551.3
57.5°	465.0	468.0	485.3	500.2	514.0	512.2	510.1	501.7	500.1
60°	431.4	434.4	450.9	466.5	479.6	478.6	476.5	467.3	467.3
62.5°	397.0	400.8	418.1	432.1	445.1	444.9	442.1	435.3	433.7
65°	344.3	348.3	365.8	378.4	392.5	392.5	389.4	381.2	379.1
67.5°	293.9	297.9	312.3	325.4	339.4	338.2	335.3	330.1	327.3
70°	260.3	264.3	274.6	289.3	303.3	301.3	299.2	294.0	292.0
72.5°	224.2	229.0	239.4	252.4	265.6	265.2	263.1	260.4	256.0
75°	174.2	177.2	188.5	200.0	209.0	210.0	207.0	205.9	200.8
77.5°	126.9	130.7	140.0	150.0	156.6	159.8	158.0	155.5	151.7
80°	97.3	100.4	109.6	118.0	123.0	127.0	126.0	121.9	118.9
82.5°	69.5	72.5	80.1	87.6	91.8	95.8	94.9	92.3	87.7
85°	31.8	33.8	41.0	46.2	48.2	53.2	51.2	49.1	46.1
87.5°	4.9	5.7	10.7	15.6	14.8	19.6	17.2	13.9	10.7
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	1.7	2.7	10.2	11.5	10.4	9.9
95°	2.7	2.7	4.1	13.0	13.0	21.0	28.8	28.1	28.1
97.5°	6.2	6.8	9.6	39.6	29.6	28.8	41.1	45.2	45.6
100°	8.9	9.6	15.1	64.6	43.8	37.1	43.8	53.5	55.5
102.5°	12.2	13.4	23.8	101.9	61.9	44.5	51.5	58.4	60.4
105°	18.5	20.5	50.0	170.8	94.5	59.0	65.1	68.5	69.2
107.5°	27.8	35.3	136.8	240.3	134.1	78.1	81.6	84.0	84.8
110°	37.7	53.7	237.6	282.2	163.7	92.7	90.4	96.5	95.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	63.4	110.5	348.8	316.6	193.2	110.0	98.6	108.6	109.4
115°	177.4	304.6	466.3	365.5	238.3	139.9	111.6	121.3	125.3
117.5°	445.1	529.6	528.2	410.8	281.6	175.1	127.2	131.9	136.4
120°	598.5	611.2	559.5	441.4	309.5	200.4	140.4	138.4	142.4
122.5°	655.5	645.2	583.0	468.3	338.0	226.7	157.4	145.5	149.0
125°	704.6	684.6	613.6	506.6	380.1	265.6	188.3	160.9	160.2
127.5°	731.9	710.9	643.4	539.9	418.7	305.9	223.5	182.7	176.5
130°	745.0	725.6	664.2	560.3	444.4	333.3	249.3	201.8	192.4
132.5°	760.9	739.9	679.0	581.2	469.1	359.0	275.0	224.8	213.8
135°	776.5	757.1	703.3	608.4	504.0	396.9	312.3	262.6	248.6
137.5°	790.5	772.7	725.5	629.9	535.5	434.1	351.7	303.4	286.2
140°	799.8	780.4	734.8	646.4	554.7	457.6	378.0	329.8	316.4
142.5°	803.1	791.2	744.6	660.3	576.0	480.0	404.3	354.4	342.1
145°	812.8	804.8	756.7	676.9	601.2	513.5	444.4	392.8	379.4
147.5°	819.1	807.1	767.8	694.9	625.9	543.5	480.9	431.3	418.8
150°	819.7	810.3	776.5	705.9	642.3	565.3	503.3	456.5	445.1
152.5°	824.1	812.5	780.9	715.3	654.4	583.8	525.8	482.2	469.8
155°	821.1	813.0	787.5	727.4	673.1	607.5	557.4	518.8	508.1
157.5°	821.1	811.1	788.3	736.7	691.2	633.6	587.0	551.3	543.3
160°	815.6	811.6	788.9	743.4	700.5	648.3	606.7	574.3	563.6
162.5°	813.4	806.7	790.0	747.8	708.7	660.3	623.7	593.0	584.9
165°	803.9	797.9	783.4	749.9	721.8	681.6	648.5	621.0	617.0
167.5°	793.1	788.4	778.9	753.2	730.4	697.6	669.7	647.5	642.0
170°	785.4	778.1	774.5	754.9	734.8	707.3	683.4	663.4	657.4
172.5°	772.3	771.4	768.5	750.7	738.6	716.0	696.0	677.7	673.8
175°	756.7	756.7	758.7	747.7	743.7	724.9	710.8	699.7	693.7
177.5°	738.6	739.1	743.5	743.0	743.5	732.8	728.7	718.3	717.2
180°	734.8	734.8	734.8	734.8	734.8	734.8	734.8	734.8	734.8

(END OF REPORT)