

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: P522522

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

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522522
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-050D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 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

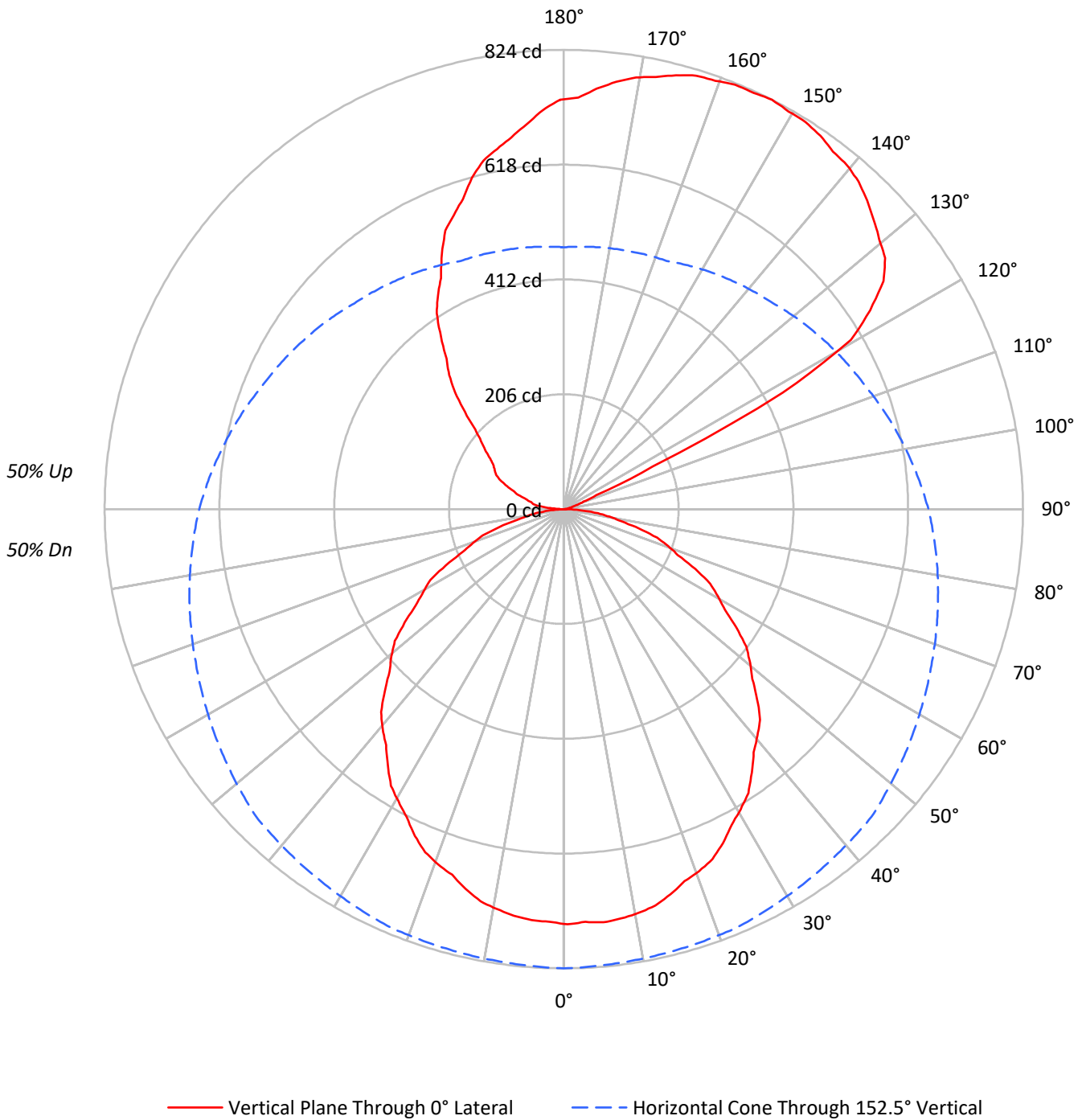
Lumens per Lamp: N/A
Luminaire Lumens: 4116.1 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 38.5
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



TEST NUMBER: P522522
CATALOG NUMBER: SQW-F-050U-050D-93050-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P522522

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

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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	71	68	61	59	58	50	49	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	44	42	40	35
3	81	71	64	58	74	66	60	54	56	51	47	47	43	40	39	36	34	30
4	74	63	55	49	68	59	51	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	39	45	39	35	37	33	30	31	28	25	22
6	63	50	42	36	57	47	39	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	20	17
8	54	41	33	28	49	38	31	26	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	22	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	12029	12029	12029
5°	12075	12123	11992
10°	12080	12131	11929
15°	11990	12110	11768
20°	11919	11972	11620
25°	11829	11829	11484
30°	11654	11749	11233
35°	11452	11594	10989
40°	11274	11405	10777
45°	11113	11232	10460
50°	10889	11042	10218
55°	10587	10787	9866
60°	10259	10556	9429
65°	9906	10296	8967
70°	9385	9673	8224
75°	8696	8759	7417
80°	7717	7810	6007
85°	6076	5891	4168



TEST NUMBER: P522522

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	1.7
10°-20°	201.3	4.9
20°-30°	302.9	7.4
30°-40°	361.5	8.8
40°-50°	371.2	9.0
50°-60°	333.6	8.1
60°-70°	252.9	6.1
70°-80°	142.7	3.5
80°-90°	37.0	0.9
90°-100°	18.6	0.5
100°-110°	82.3	2.0
110°-120°	236.5	5.7
120°-130°	360.3	8.8
130°-140°	391.1	9.5
140°-150°	374.0	9.1
150°-160°	308.1	7.5
160°-170°	201.6	4.9
170°-180°	69.8	1.7
0°-30°	574.8	14.0
0°-40°	936.3	22.7
0°-60°	1641.1	39.9
0°-90°	2073.7	50.4
90°-120°	337.4	8.2
90°-150°	1462.8	35.5
90°-180°	2042.0	49.6
0°-180°	4116.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	745	745	745	745	745	
5°	745	744	748	743	740	71
15°	717	720	724	708	704	202
25°	664	666	664	655	645	305
35°	581	590	588	573	558	364
45°	487	493	492	473	458	375
55°	376	383	383	365	350	336
65°	259	266	270	246	235	256
75°	139	141	140	127	119	148
85°	33	36	32	27	22	38
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: P522522

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
2.5°	741.7	744.9	744.2	743.5	750.7	744.3	745.0	744.1	740.9
5°	745.0	743.0	743.9	743.0	748.0	742.0	742.9	739.9	739.9
7.5°	741.7	738.5	739.4	738.7	743.1	736.3	735.1	731.3	734.9
10°	736.8	732.8	733.7	733.8	739.9	729.8	728.6	725.6	727.6
12.5°	730.2	727.8	728.0	726.5	734.9	721.7	721.2	719.0	719.4
15°	717.3	720.3	720.4	713.5	724.5	708.4	708.1	708.0	704.0
17.5°	701.9	706.1	709.7	700.9	708.3	694.9	694.6	691.0	686.2
20°	693.7	694.7	699.9	691.8	696.8	685.8	685.5	676.3	676.3
22.5°	682.3	682.5	688.4	679.5	684.5	673.5	674.1	663.2	664.0
25°	664.0	663.0	666.1	660.0	664.0	654.0	654.8	643.5	644.6
27.5°	641.5	642.7	647.4	638.1	644.1	631.9	632.3	622.0	620.6
30°	625.1	627.1	634.3	624.2	630.2	617.2	615.9	605.5	602.5
32.5°	607.9	609.9	617.1	609.4	614.6	602.4	599.5	587.5	585.3
35°	581.0	583.0	590.2	586.2	588.2	576.2	572.8	560.5	557.5
37.5°	553.8	555.8	561.8	558.9	560.7	548.1	543.3	532.4	530.2
40°	534.9	536.9	542.1	540.1	541.1	530.0	523.6	514.3	511.3
42.5°	516.9	518.1	522.4	518.8	521.4	511.2	504.0	494.6	490.0
45°	486.7	486.7	492.9	488.9	491.9	481.8	473.4	463.1	458.1
47.5°	455.6	453.8	460.9	459.5	460.9	450.1	441.7	430.9	427.3
50°	433.5	432.5	439.6	440.6	439.6	429.6	421.2	408.8	406.8
52.5°	409.7	411.1	416.7	417.7	417.5	407.5	398.2	386.7	384.7
55°	376.1	378.1	383.2	384.2	383.2	374.2	364.8	352.5	350.5
57.5°	340.6	345.4	349.8	350.9	351.5	341.9	330.2	320.8	316.6
60°	317.7	321.7	326.9	327.9	326.9	318.9	306.4	297.1	292.0
62.5°	294.7	297.1	302.3	304.9	302.3	294.3	281.8	273.4	271.6
65°	259.3	261.3	266.4	268.5	269.5	258.5	245.9	238.7	234.7
67.5°	220.9	223.3	226.3	229.2	230.4	218.7	208.4	200.7	196.3
70°	198.8	198.8	200.8	202.9	204.9	194.9	185.5	176.2	174.2
72.5°	175.0	175.0	177.9	179.1	179.5	170.3	161.7	153.3	152.9
75°	139.4	139.4	141.4	142.4	140.4	134.4	127.1	119.9	118.9
77.5°	106.0	105.4	107.2	108.0	107.0	100.2	93.0	88.1	86.7
80°	83.0	84.0	85.1	85.0	84.0	78.0	71.7	67.6	64.6
82.5°	61.7	62.7	64.6	64.5	61.9	58.3	52.9	47.9	47.3
85°	32.8	32.8	35.9	34.8	31.8	29.8	26.6	22.5	22.5
87.5°	8.2	9.0	10.7	13.0	9.0	9.8	5.7	3.3	2.5
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



TEST NUMBER: P522522

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

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)