

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: P522340

Luminaire Tested: **SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522340
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

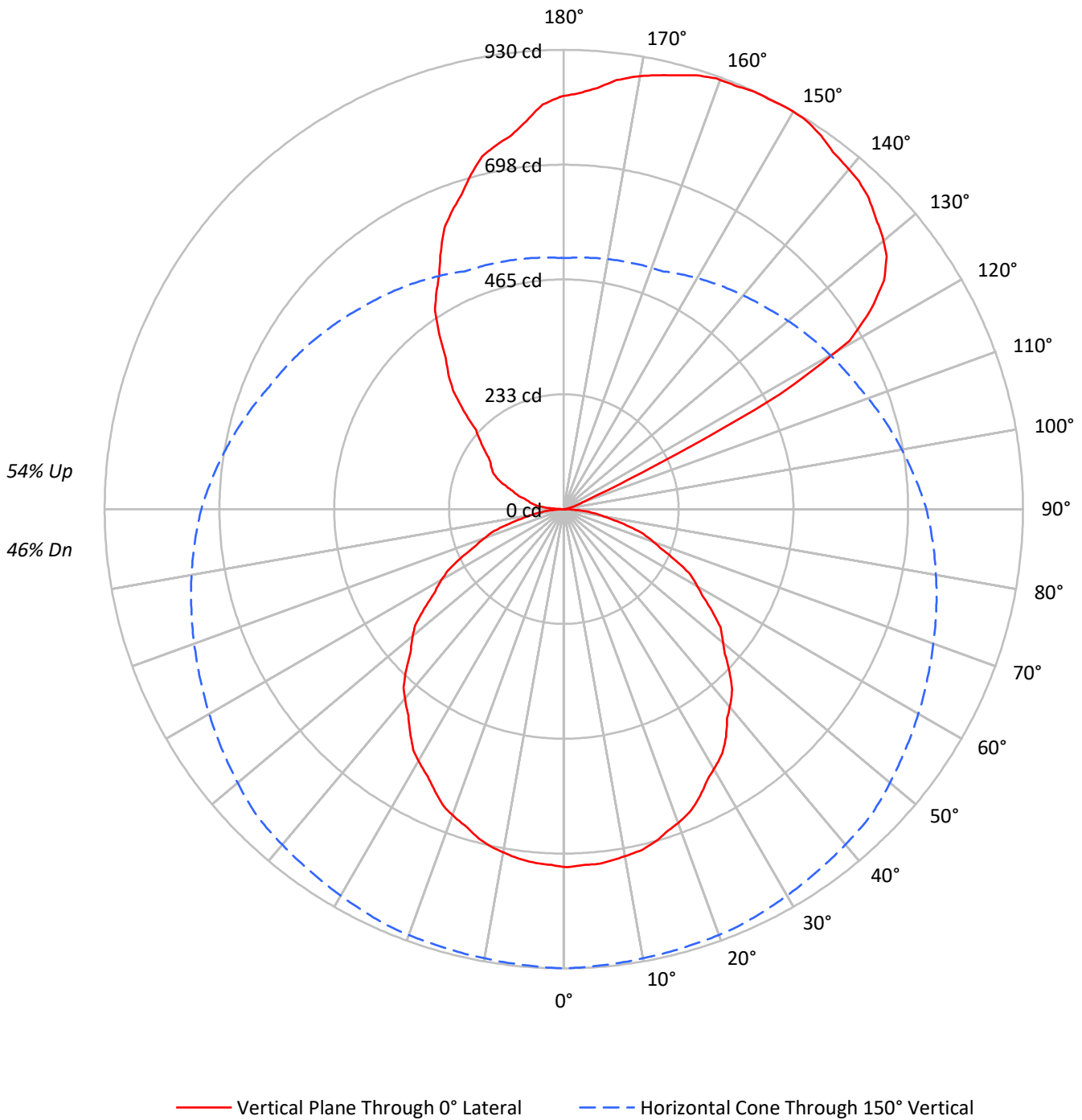
Lumens per Lamp: N/A
Luminaire Lumens: 4354.3 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 39
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: P522340
CATALOG NUMBER: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P522340

CATALOG NUMBER: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (4500K)

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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	46
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	47	45	44	39
2	88	81	74	69	81	74	69	64	62	58	55	51	48	46	41	39	37	32
3	80	71	63	58	73	65	59	54	55	50	46	45	42	39	36	34	32	27
4	73	63	55	49	67	58	51	45	49	43	39	40	36	33	32	29	27	23
5	67	56	47	41	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	19	22	19	16	14
9	49	37	30	25	45	34	28	23	29	24	20	25	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11711	11711	11711
5°	11705	11823	11655
10°	11688	11808	11603
15°	11674	11744	11519
20°	11591	11680	11378
25°	11448	11558	11190
30°	11285	11440	11035
35°	11156	11298	10829
40°	10947	11143	10642
45°	10750	10985	10396
50°	10474	10786	10135
55°	10252	10545	9757
60°	9956	10324	9390
65°	9410	9883	8856
70°	8889	9427	8257
75°	8197	8652	7555
80°	7122	7596	6351
85°	5372	5947	4798



TEST NUMBER: P522340

CATALOG NUMBER: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	1.6
10°-20°	196.1	4.5
20°-30°	295.0	6.8
30°-40°	352.2	8.1
40°-50°	362.3	8.3
50°-60°	325.9	7.5
60°-70°	246.5	5.7
70°-80°	140.2	3.2
80°-90°	37.0	0.9
90°-100°	21.9	0.5
100°-110°	95.1	2.2
110°-120°	271.1	6.2
120°-130°	412.2	9.5
130°-140°	445.8	10.2
140°-150°	426.0	9.8
150°-160°	350.4	8.0
160°-170°	228.9	5.3
170°-180°	79.2	1.8
0°-30°	559.7	12.9
0°-40°	911.9	20.9
0°-60°	1600.1	36.7
0°-90°	2023.8	46.5
90°-120°	388.1	8.9
90°-150°	1672.1	38.4
90°-180°	2331.0	53.5
0°-180°	4354.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	725	725	725	725	725	
5°	722	722	730	722	719	69
15°	698	700	703	694	689	197
25°	643	649	649	640	628	296
35°	566	572	573	561	549	353
45°	471	477	481	466	455	363
55°	364	372	375	360	347	325
65°	246	254	259	243	232	245
75°	131	136	139	128	121	139
85°	29	33	32	29	26	34
90°	0	0	0	0	0	1
95°	4	5	15	36	33	4
105°	22	56	110	75	81	25
115°	200	532	274	130	148	275
125°	797	701	439	216	185	700
135°	882	798	577	358	284	680
145°	919	860	688	509	434	576
155°	930	888	768	637	579	430
165°	908	888	822	737	703	258
175°	855	857	842	812	790	83
180°	835	835	835	835	835	



TEST NUMBER: P522340

CATALOG NUMBER: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3
2.5°	722.0	724.5	724.5	723.8	730.3	723.8	725.3	723.6	721.2
5°	722.2	722.2	722.2	721.4	729.5	720.4	722.2	719.1	719.1
7.5°	717.9	718.1	718.9	716.2	725.1	715.0	716.9	713.6	714.4
10°	712.9	713.9	714.0	712.1	720.2	710.0	711.9	707.7	707.7
12.5°	708.0	708.2	709.0	706.3	714.4	703.4	705.3	701.1	700.3
15°	698.4	698.4	699.5	695.5	702.6	692.5	694.3	689.1	689.1
17.5°	684.6	684.4	686.8	681.6	688.9	677.6	681.3	674.8	673.0
20°	674.6	673.6	677.7	671.7	679.8	667.7	670.5	663.2	662.2
22.5°	662.2	661.2	667.0	660.9	668.2	656.1	658.9	649.2	649.0
25°	642.6	641.5	648.8	642.7	648.8	637.6	639.5	629.1	628.1
27.5°	620.2	620.2	628.7	621.6	628.5	617.4	618.1	607.6	607.6
30°	605.3	605.3	614.6	607.5	613.6	602.5	603.2	591.9	591.9
32.5°	589.6	589.6	597.2	591.8	597.9	586.7	586.7	575.3	575.3
35°	566.0	564.0	572.2	567.2	573.2	562.1	560.8	549.4	549.4
37.5°	537.6	536.6	545.7	542.1	547.0	536.0	533.1	522.1	523.2
40°	519.4	518.4	526.7	524.7	528.7	518.6	513.2	503.9	504.9
42.5°	500.4	498.6	506.8	505.7	509.7	499.6	495.0	484.9	485.1
45°	470.8	470.8	477.0	477.1	481.1	470.0	465.6	455.3	455.3
47.5°	439.3	439.5	446.0	446.3	450.1	440.4	435.6	424.4	424.2
50°	417.0	418.0	425.3	426.4	429.4	421.3	414.9	404.6	403.5
52.5°	398.0	396.5	403.7	405.7	407.9	399.8	393.4	383.0	382.0
55°	364.2	365.2	371.5	374.6	374.6	367.5	360.1	349.7	346.6
57.5°	330.7	332.1	337.1	341.1	342.1	334.2	326.6	317.2	313.1
60°	308.3	307.3	315.6	318.7	319.7	312.6	304.2	294.8	290.8
62.5°	284.3	284.9	290.8	295.5	296.6	288.7	281.0	269.2	265.9
65°	246.3	249.3	253.5	256.7	258.7	252.6	243.2	233.8	231.8
67.5°	211.5	213.5	217.7	222.5	223.7	216.8	208.4	200.3	198.0
70°	188.3	190.3	194.5	197.7	199.7	193.6	185.2	177.9	174.9
72.5°	165.1	167.2	170.5	173.7	175.7	169.6	162.0	155.6	153.3
75°	131.4	133.4	135.5	137.6	138.7	134.6	128.3	122.1	121.1
77.5°	98.1	100.1	102.4	105.1	104.1	101.3	95.2	91.0	89.8
80°	76.6	78.6	81.7	82.8	81.7	79.7	74.5	70.3	68.3
82.5°	56.7	58.7	61.9	62.0	60.2	59.8	55.5	52.1	50.9
85°	29.0	31.0	33.1	34.1	32.1	32.1	29.0	25.9	25.9
87.5°	5.8	7.4	9.9	12.4	9.9	10.7	8.3	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	1.1	2.3	3.4	12.3	13.6	11.9	11.9
95°	3.5	3.5	5.0	15.6	14.9	25.3	35.5	33.3	33.3
97.5°	7.2	7.9	11.3	46.1	34.7	33.8	47.9	53.3	54.3
100°	10.6	11.3	17.0	75.3	51.8	44.1	52.5	62.4	64.5
102.5°	14.6	15.9	27.2	118.5	72.7	51.8	59.8	68.7	71.3
105°	22.0	24.1	56.0	198.6	109.9	67.6	75.2	78.7	80.8
107.5°	32.6	41.1	150.9	279.1	156.0	89.3	97.3	96.7	98.6
110°	44.0	61.3	260.9	323.1	190.0	106.1	106.4	112.0	109.9



TEST NUMBER: P522340

CATALOG NUMBER: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	72.9	121.8	389.1	365.5	224.0	126.3	114.9	127.4	128.0
115°	199.9	343.4	531.8	424.8	274.4	162.1	130.5	142.6	147.5
117.5°	495.7	597.5	604.8	477.5	324.6	202.0	148.3	153.7	160.1
120°	672.1	692.9	638.8	509.9	358.0	230.5	163.1	161.1	168.0
122.5°	741.3	733.9	666.6	540.0	390.9	260.6	181.2	170.1	174.8
125°	796.9	777.5	701.2	581.7	438.9	305.8	215.5	185.1	185.1
127.5°	830.1	807.5	733.0	618.7	482.1	351.4	256.8	209.3	202.8
130°	849.4	825.1	752.3	644.3	510.5	380.8	285.7	230.2	219.8
132.5°	864.1	842.1	770.4	664.3	538.3	409.7	314.7	256.1	239.1
135°	882.0	863.3	798.3	695.0	577.1	453.0	358.0	300.9	283.6
137.5°	893.5	878.9	823.4	720.2	613.2	496.0	401.9	344.5	328.8
140°	899.7	887.9	835.9	735.1	635.3	523.7	432.5	374.0	359.5
142.5°	906.0	896.4	845.0	751.7	656.8	551.3	462.6	404.1	388.4
145°	918.9	907.8	860.0	771.6	687.7	590.0	509.1	447.8	433.9
147.5°	927.9	914.6	872.4	793.1	716.9	625.0	551.7	492.6	478.9
150°	930.2	916.4	879.2	804.6	734.5	646.5	577.8	521.5	508.4
152.5°	928.5	918.0	884.3	814.3	749.3	667.3	601.7	549.3	537.3
155°	929.5	919.8	888.4	827.5	767.9	696.5	637.4	591.0	578.6
157.5°	925.3	918.9	891.2	837.6	785.0	722.5	670.2	631.2	618.5
160°	925.3	915.5	891.2	843.4	796.9	739.4	690.6	655.6	645.2
162.5°	919.0	910.4	890.7	847.5	808.3	755.2	709.9	677.2	669.6
165°	907.5	900.6	887.7	853.0	822.4	776.7	737.4	708.2	703.3
167.5°	898.6	889.0	882.0	852.8	832.1	792.2	760.6	736.5	733.7
170°	888.4	882.1	876.3	851.2	836.6	803.4	777.1	752.9	750.1
172.5°	875.3	871.9	869.0	850.1	839.5	812.8	791.3	769.3	764.3
175°	855.1	857.8	857.2	847.8	842.3	825.0	811.8	796.1	789.8
177.5°	842.6	841.5	844.3	842.6	842.0	831.5	827.8	817.1	820.5
180°	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2

(END OF REPORT)