

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: P522348

Luminaire Tested: **SQW-F-050U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522348
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-075D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 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

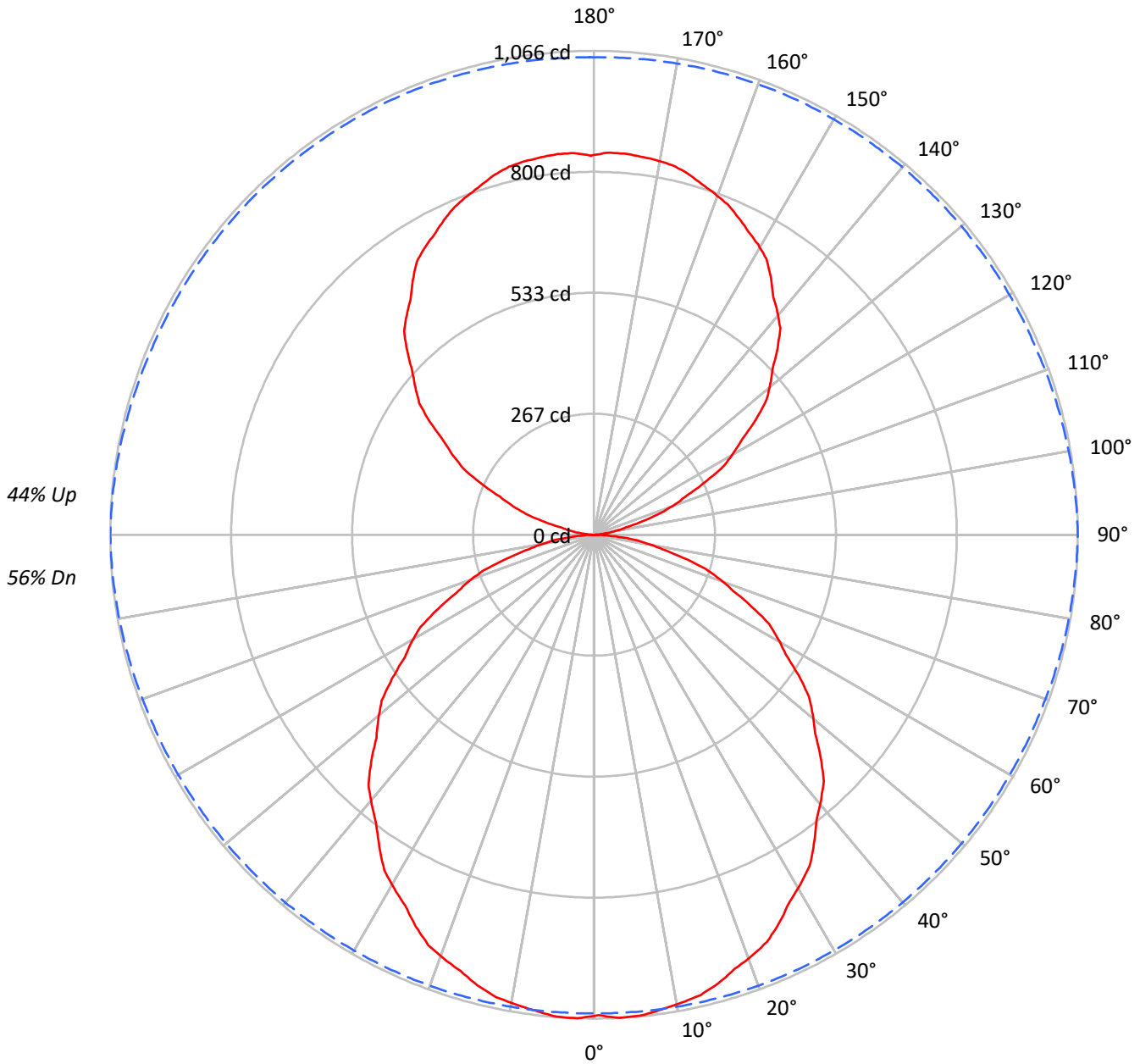
Lumens per Lamp: N/A
Luminaire Lumens: 5286.2 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 49.5
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: P522348
CATALOG NUMBER: SQW-F-050U-075D-92765-1D-UNV-STD-W-4 (4500K)

Luminous Intensity Polar Plot



— Vertical Plane Through 90° Lateral - - - Horizontal Cone Through 2.5° Vertical



TEST NUMBER: P522348

CATALOG NUMBER: SQW-F-050U-075D-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	50	30	10	0	
RCR																						
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56				
1	99	95	91	87	92	88	85	81	76	73	71	65	63	61	54	53	52	47				
2	90	82	76	71	83	77	71	67	66	62	58	57	53	51	48	45	43	39				
3	82	72	65	59	76	67	61	55	58	53	49	50	46	43	42	39	37	33				
4	75	64	56	50	69	60	52	47	52	46	42	44	40	36	37	34	31	28				
5	69	57	49	42	64	53	46	40	46	40	36	40	35	32	34	30	27	24				
6	63	51	43	37	59	48	40	35	42	36	31	36	31	28	30	27	24	21				
7	59	46	38	32	54	43	36	31	38	32	27	33	28	24	28	24	21	19				
8	54	42	34	28	50	39	32	27	34	29	24	30	25	22	25	22	19	17				
9	51	38	31	25	47	36	29	24	31	26	22	27	23	19	23	20	17	15				
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	22	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17090	17090	17090
5°	17105	17256	17021
10°	17084	17202	16913
15°	17020	17140	16759
20°	16907	17033	16551
25°	16702	16885	16295
30°	16494	16686	16032
35°	16255	16458	15764
40°	15985	16225	15397
45°	15689	15995	15098
50°	15335	15699	14737
55°	14942	15378	14300
60°	14467	15071	13766
65°	13838	14586	13085
70°	13091	13921	12113
75°	11940	12651	10911
80°	10386	11260	9335
85°	7855	8818	6521



TEST NUMBER: P522348

CATALOG NUMBER: SQW-F-050U-075D-92765-1D-UNV-STD-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	1.9
10°-20°	286.1	5.4
20°-30°	430.4	8.1
30°-40°	514.1	9.7
40°-50°	528.5	10.0
50°-60°	475.6	9.0
60°-70°	361.9	6.8
70°-80°	205.1	3.9
80°-90°	53.9	1.0
90°-100°	21.9	0.4
100°-110°	95.1	1.8
110°-120°	271.1	5.1
120°-130°	412.2	7.8
130°-140°	445.8	8.4
140°-150°	426.0	8.1
150°-160°	350.4	6.6
160°-170°	228.9	4.3
170°-180°	79.2	1.5
0°-30°	816.6	15.4
0°-40°	1330.6	25.2
0°-60°	2334.7	44.2
0°-90°	2955.7	55.9
90°-120°	388.1	7.3
90°-150°	1672.1	31.6
90°-180°	2331.0	44.1
0°-180°	5286.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1058	1058	1058	1058	1058	
5°	1055	1055	1065	1052	1050	100
15°	1018	1020	1025	1012	1003	287
25°	938	947	948	931	915	432
35°	825	836	835	817	800	516
45°	687	696	700	680	661	530
55°	531	541	546	526	508	474
65°	362	372	382	359	342	359
75°	191	198	203	186	175	203
85°	42	48	48	42	35	50
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: P522348

CATALOG NUMBER: SQW-F-050U-075D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5
2.5°	1054.4	1057.6	1057.7	1057.9	1066.0	1057.1	1056.9	1056.8	1051.9
5°	1055.4	1055.4	1055.4	1053.6	1064.7	1052.6	1052.3	1050.2	1050.2
7.5°	1049.4	1047.6	1048.8	1046.5	1056.7	1043.5	1044.2	1042.0	1041.5
10°	1042.0	1041.0	1043.0	1039.1	1049.2	1036.1	1036.8	1033.6	1031.6
12.5°	1033.7	1032.7	1035.5	1030.0	1040.9	1027.8	1027.7	1023.7	1023.3
15°	1018.2	1018.2	1020.2	1016.3	1025.4	1012.3	1012.0	1007.7	1002.6
17.5°	999.7	997.5	1002.4	996.0	1005.3	990.6	991.7	985.5	979.9
20°	984.0	981.0	989.2	981.1	991.3	974.1	976.8	967.4	963.3
22.5°	965.8	963.6	972.6	965.4	974.7	958.3	959.4	947.5	944.3
25°	937.5	936.4	946.8	938.7	947.8	930.6	931.2	918.7	914.7
27.5°	906.2	905.4	916.8	908.7	916.6	900.6	901.0	887.3	882.2
30°	884.7	884.7	896.1	888.0	895.0	879.9	879.5	864.9	859.9
32.5°	861.5	860.7	872.1	865.6	871.9	855.9	854.7	840.9	835.8
35°	824.7	824.7	836.1	828.9	835.0	820.9	817.4	803.9	799.8
37.5°	785.8	784.8	796.1	791.7	797.1	782.2	777.5	763.0	762.0
40°	758.4	757.4	768.8	766.8	769.8	755.7	750.2	735.6	730.5
42.5°	730.3	730.9	740.7	738.7	742.5	728.4	722.9	707.5	704.9
45°	687.1	686.0	696.4	695.4	700.5	686.3	679.8	663.2	661.2
47.5°	641.9	642.3	651.5	652.6	655.6	642.6	634.9	618.5	616.5
50°	610.5	612.5	620.8	621.9	625.0	612.8	604.3	588.7	586.7
52.5°	579.9	581.1	589.4	592.9	593.5	583.0	572.8	558.1	556.1
55°	530.8	533.8	541.2	545.3	546.3	537.2	525.6	511.1	508.0
57.5°	481.1	483.2	493.1	497.9	498.1	488.6	477.0	463.4	458.6
60°	448.0	450.1	458.4	465.6	466.7	455.5	443.9	430.4	426.3
62.5°	414.1	416.1	424.4	431.7	432.7	422.4	410.0	396.4	393.2
65°	362.2	364.2	372.5	380.8	381.8	371.7	359.0	345.5	342.5
67.5°	311.2	313.3	321.4	328.3	330.5	319.6	307.9	295.4	291.4
70°	277.3	279.3	286.6	291.9	294.9	284.8	273.2	260.7	256.6
72.5°	241.7	242.9	250.2	256.2	256.8	248.3	237.6	227.6	224.3
75°	191.4	193.4	197.6	203.8	202.8	194.7	186.2	178.9	174.9
77.5°	143.2	145.4	149.4	153.6	154.2	146.7	139.5	132.2	129.3
80°	111.7	114.8	118.0	122.1	121.1	116.0	109.7	102.4	100.4
82.5°	82.8	85.0	89.0	92.2	89.6	86.2	81.5	74.2	72.2
85°	42.4	43.4	47.6	50.6	47.6	46.6	42.4	37.2	35.2
87.5°	9.1	10.7	14.1	18.1	14.9	15.7	12.4	8.3	7.4
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: P522348

CATALOG NUMBER: SQW-F-050U-075D-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)