

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: P522382

Luminaire Tested: **SQW-F-075U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522382  
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-075U-050D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5563.1 lumens  
Efficiency: N/A  
Efficacy: 118.6 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: Semi-Indirect

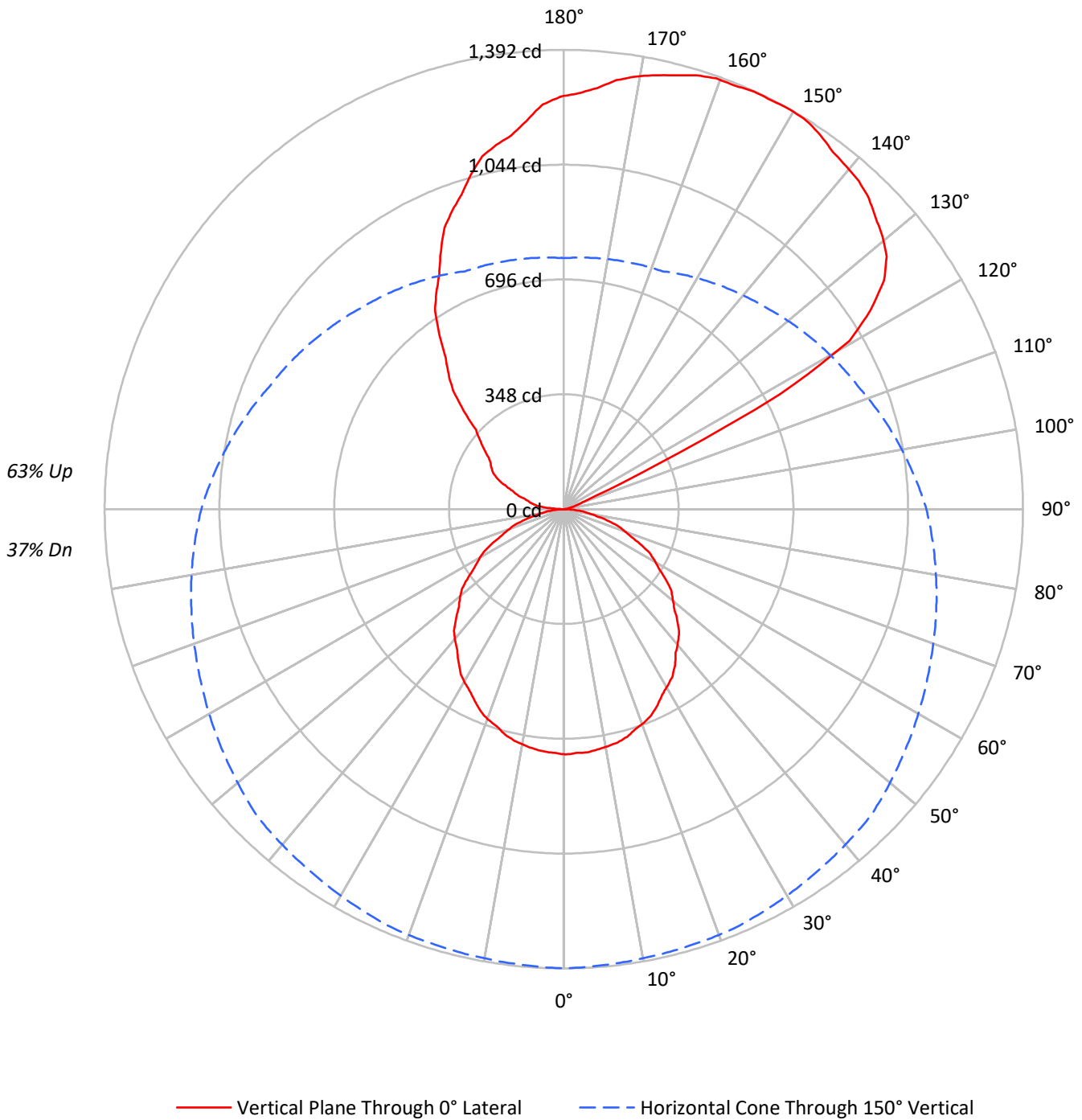
Input Watts (W): 46.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P522382

CATALOG NUMBER: SQW-F-075U-050D-92765-1D-UNV-STD-W-4 (5700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P522382

CATALOG NUMBER: SQW-F-075U-050D-92765-1D-UNV-STD-W-4 (5700K)

**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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	51	46	43	41	34	33	31	26
3	79	69	62	56	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	61	53	47	65	56	49	44	45	40	37	36	32	30	27	25	23	19
5	66	54	46	40	59	50	43	37	41	35	31	32	28	25	24	22	20	16
6	60	49	41	35	55	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	28	24	26	22	20	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	12009	12009	12009
5°	12003	12125	11951
10°	11986	12108	11899
15°	11972	12043	11813
20°	11887	11978	11668
25°	11738	11852	11475
30°	11572	11731	11315
35°	11440	11586	11105
40°	11228	11428	10914
45°	11024	11266	10661
50°	10741	11060	10394
55°	10514	10812	10007
60°	10211	10588	9629
65°	9647	10136	9081
70°	9116	9668	8464
75°	8409	8871	7742
80°	7299	7792	6509
85°	5502	6095	4909



TEST NUMBER: P522382

CATALOG NUMBER: SQW-F-075U-050D-92765-1D-UNV-STD-W-4 (5700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.4	1.3
10°-20°	201.1	3.6
20°-30°	302.5	5.4
30°-40°	361.2	6.5
40°-50°	371.5	6.7
50°-60°	334.2	6.0
60°-70°	252.8	4.5
70°-80°	143.7	2.6
80°-90°	38.0	0.7
90°-100°	32.9	0.6
100°-110°	142.3	2.6
110°-120°	405.7	7.3
120°-130°	616.9	11.1
130°-140°	667.2	12.0
140°-150°	637.5	11.5
150°-160°	524.3	9.4
160°-170°	342.6	6.2
170°-180°	118.5	2.1
0°-30°	573.9	10.3
0°-40°	935.1	16.8
0°-60°	1640.8	29.5
0°-90°	2075.3	37.3
90°-120°	580.8	10.4
90°-150°	2502.4	45.0
90°-180°	3488.0	62.7
0°-180°	5563.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	744	744	744	744	744	
5°	741	741	748	741	737	70
15°	716	717	720	712	707	202
25°	659	665	665	656	644	303
35°	580	587	588	575	563	362
45°	483	489	493	478	467	372
55°	374	381	384	369	356	334
65°	252	260	265	249	238	251
75°	135	139	142	132	124	142
85°	30	34	33	30	26	35
90°	0	0	0	0	0	1
95°	5	7	22	53	50	7
105°	33	84	164	112	121	38
115°	299	796	411	195	221	412
125°	1193	1049	657	323	277	1048
135°	1320	1195	864	536	424	1017
145°	1375	1287	1029	762	649	861
155°	1391	1330	1149	954	866	643
165°	1358	1328	1231	1104	1053	386
175°	1280	1283	1261	1215	1182	124
180°	1250	1250	1250	1250	1250	



TEST NUMBER: P522382

CATALOG NUMBER: SQW-F-075U-050D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	743.8	743.8	743.8	743.8	743.8	743.8	743.8	743.8	743.8
2.5°	740.4	742.9	743.0	742.3	748.9	742.3	743.8	742.1	739.6
5°	740.6	740.6	740.6	739.8	748.1	738.7	740.6	737.4	737.4
7.5°	736.2	736.4	737.2	734.5	743.6	733.2	735.1	731.7	732.6
10°	731.1	732.1	732.1	730.2	738.5	728.1	730.0	725.8	725.8
12.5°	726.0	726.2	727.0	724.3	732.6	721.4	723.2	719.0	718.1
15°	716.2	716.2	717.3	713.2	720.5	710.1	712.0	706.7	706.7
17.5°	702.0	701.8	704.3	699.0	706.5	694.8	698.6	692.0	690.1
20°	691.8	690.8	695.0	688.8	697.1	684.7	687.6	680.1	679.1
22.5°	679.1	678.0	684.0	677.8	685.2	672.8	675.7	665.7	665.5
25°	658.9	657.9	665.3	659.1	665.3	653.9	655.7	645.1	644.1
27.5°	636.0	636.0	644.7	637.4	644.5	633.1	633.9	623.1	623.1
30°	620.7	620.7	630.3	623.0	629.2	617.8	618.6	606.9	606.9
32.5°	604.6	604.6	612.5	606.9	613.1	601.7	601.6	590.0	590.0
35°	580.4	578.3	586.8	581.6	587.8	576.4	575.1	563.4	563.4
37.5°	551.3	550.3	559.6	555.9	560.9	549.7	546.7	535.4	536.5
40°	532.7	531.6	540.1	538.1	542.2	531.8	526.3	516.8	517.8
42.5°	513.1	511.3	519.7	518.5	522.7	512.3	507.6	497.2	497.4
45°	482.8	482.8	489.2	489.2	493.4	482.0	477.5	466.9	466.9
47.5°	450.5	450.7	457.3	457.6	461.6	451.6	446.7	435.2	435.0
50°	427.6	428.6	436.1	437.2	440.3	432.0	425.5	414.9	413.8
52.5°	408.1	406.6	414.0	416.0	418.3	410.0	403.4	392.8	391.7
55°	373.5	374.5	380.9	384.1	384.1	376.8	369.3	358.6	355.5
57.5°	339.1	340.6	345.7	349.8	350.8	342.7	334.9	325.2	321.1
60°	316.2	315.2	323.6	326.8	327.9	320.6	312.0	302.3	298.2
62.5°	291.6	292.2	298.2	303.1	304.1	296.0	288.2	276.0	272.7
65°	252.5	255.6	260.0	263.2	265.3	259.0	249.4	239.8	237.7
67.5°	216.9	219.0	223.2	228.2	229.4	222.3	213.7	205.4	203.1
70°	193.1	195.2	199.5	202.7	204.8	198.6	189.9	182.4	179.3
72.5°	169.3	171.4	174.9	178.1	180.2	173.9	166.2	159.5	157.3
75°	134.8	136.8	139.0	141.1	142.2	138.0	131.6	125.2	124.1
77.5°	100.6	102.7	105.0	107.8	106.7	103.8	97.6	93.3	92.1
80°	78.5	80.6	83.8	84.9	83.8	81.7	76.4	72.1	70.0
82.5°	58.1	60.2	63.5	63.6	61.8	61.3	56.9	53.4	52.2
85°	29.7	31.8	34.0	35.0	32.9	32.9	29.7	26.5	26.5
87.5°	5.9	7.6	10.2	12.7	10.2	11.0	8.5	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.7	1.7	1.7	3.4	5.1	18.4	20.4	17.8	17.8
95°	5.3	5.3	7.4	23.3	22.3	37.8	53.1	49.9	49.9
97.5°	10.8	11.9	17.0	69.0	52.0	50.5	71.7	79.8	81.3
100°	15.9	17.0	25.5	112.7	77.5	66.0	78.5	93.4	96.6
102.5°	21.9	23.7	40.7	177.3	108.9	77.5	89.6	102.8	106.7
105°	32.9	36.0	83.8	297.3	164.5	101.2	112.5	117.8	121.0
107.5°	48.8	61.5	225.8	417.7	233.4	133.6	145.6	144.8	147.5
110°	65.8	91.7	390.5	483.6	284.4	158.8	159.2	167.6	164.5

TEST NUMBER: P522382

CATALOG NUMBER: SQW-F-075U-050D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	109.1	182.3	582.3	546.9	335.3	189.0	171.9	190.6	191.6
115°	299.2	514.0	795.8	635.8	410.6	242.6	195.2	213.4	220.7
117.5°	741.9	894.2	905.1	714.6	485.8	302.3	222.0	230.0	239.6
120°	1005.9	1037.0	956.0	763.1	535.8	344.9	244.0	241.1	251.5
122.5°	1109.5	1098.3	997.6	808.1	585.1	390.0	271.2	254.6	261.7
125°	1192.6	1163.6	1049.4	870.5	656.8	457.6	322.6	276.9	276.9
127.5°	1242.3	1208.5	1096.9	925.9	721.5	525.9	384.3	313.2	303.5
130°	1271.2	1234.9	1125.8	964.2	764.0	570.0	427.6	344.5	328.9
132.5°	1293.2	1260.2	1153.0	994.2	805.6	613.2	470.9	383.3	357.8
135°	1320.0	1292.0	1194.8	1040.1	863.7	678.0	535.8	450.4	424.4
137.5°	1337.2	1315.4	1232.3	1077.8	917.6	742.3	601.4	515.6	492.1
140°	1346.5	1328.9	1251.0	1100.1	950.7	783.7	647.3	559.8	538.0
142.5°	1355.8	1341.5	1264.6	1124.9	983.0	825.1	692.2	604.7	581.3
145°	1375.1	1358.5	1287.1	1154.8	1029.2	883.0	761.8	670.1	649.4
147.5°	1388.7	1368.8	1305.5	1186.9	1073.0	935.4	825.7	737.2	716.6
150°	1392.1	1371.4	1315.7	1204.1	1099.3	967.5	864.8	780.5	760.8
152.5°	1389.6	1373.8	1323.4	1218.7	1121.3	998.7	900.4	822.1	804.1
155°	1391.1	1376.5	1329.5	1238.4	1149.1	1042.3	953.9	884.5	865.8
157.5°	1384.7	1375.2	1333.8	1253.5	1174.8	1081.2	1002.9	944.6	925.7
160°	1384.7	1370.2	1333.8	1262.2	1192.6	1106.5	1033.5	981.1	965.6
162.5°	1375.4	1362.5	1332.9	1268.3	1209.6	1130.1	1062.3	1013.5	1002.1
165°	1358.2	1347.8	1328.5	1276.5	1230.8	1162.4	1103.5	1059.8	1052.6
167.5°	1344.8	1330.5	1320.0	1276.2	1245.3	1185.5	1138.3	1102.1	1098.0
170°	1329.5	1320.2	1311.5	1273.9	1252.1	1202.3	1162.9	1126.8	1122.6
172.5°	1310.0	1304.8	1300.4	1272.3	1256.3	1216.5	1184.2	1151.3	1143.8
175°	1279.7	1283.8	1282.8	1268.9	1260.6	1234.6	1214.9	1191.4	1182.0
177.5°	1261.0	1259.3	1263.5	1261.0	1260.1	1244.4	1238.9	1222.9	1227.9
180°	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9

(END OF REPORT)