

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: P522385

Luminaire Tested: **SQW-F-075U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522385  
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-075D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

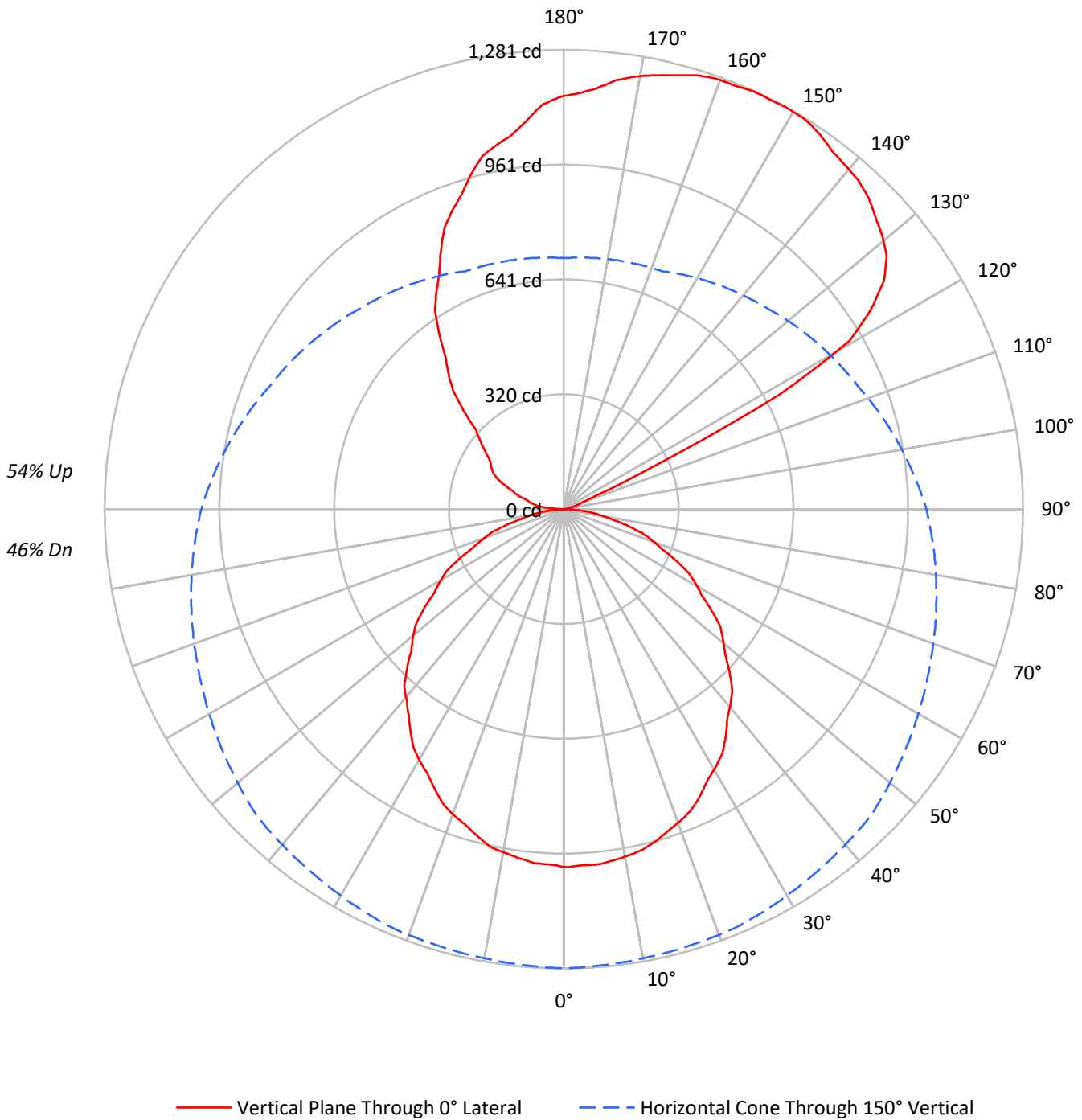
Lumens per Lamp: N/A  
Luminaire Lumens: 5999.6 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 57.6  
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: P522385  
CATALOG NUMBER: SQW-F-075U-075D-92765-1D-UNV-STD-W-4 (3000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P522385

CATALOG NUMBER: SQW-F-075U-075D-92765-1D-UNV-STD-W-4 (3000K)

**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°	16130	16130	16130
5°	16144	16287	16065
10°	16123	16234	15962
15°	16062	16177	15818
20°	15957	16074	15622
25°	15763	15935	15380
30°	15567	15748	15129
35°	15341	15534	14879
40°	15087	15314	14533
45°	14805	15095	14248
50°	14473	14815	13908
55°	14103	14514	13498
60°	13656	14221	12991
65°	13058	13769	12348
70°	12354	13138	11434
75°	11273	11940	10293
80°	9809	10628	8805
85°	7410	8318	6150



TEST NUMBER: P522385

CATALOG NUMBER: SQW-F-075U-075D-92765-1D-UNV-STD-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.5	1.6
10°-20°	270.0	4.5
20°-30°	406.2	6.8
30°-40°	485.2	8.1
40°-50°	498.8	8.3
50°-60°	448.9	7.5
60°-70°	341.6	5.7
70°-80°	193.6	3.2
80°-90°	50.9	0.8
90°-100°	30.2	0.5
100°-110°	130.9	2.2
110°-120°	373.4	6.2
120°-130°	567.7	9.5
130°-140°	614.1	10.2
140°-150°	586.7	9.8
150°-160°	482.6	8.0
160°-170°	315.3	5.3
170°-180°	109.1	1.8
0°-30°	770.7	12.8
0°-40°	1255.8	20.9
0°-60°	2203.5	36.7
0°-90°	2789.5	46.5
90°-120°	534.6	8.9
90°-150°	2303.1	38.4
90°-180°	3210.0	53.5
0°-180°	5999.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	999	999	999	999	999	
5°	996	996	1005	993	991	95
15°	961	963	968	955	946	271
25°	885	894	894	879	863	408
35°	778	789	788	772	755	487
45°	648	657	661	642	624	500
55°	501	511	516	496	480	448
65°	342	352	360	339	323	339
75°	181	186	191	176	165	192
85°	40	45	45	40	33	48
90°	0	0	0	0	0	1
95°	5	7	20	49	46	6
105°	30	77	151	104	111	35
115°	275	732	378	180	203	379
125°	1098	966	604	297	255	965
135°	1215	1100	795	493	391	936
145°	1266	1185	947	701	598	793
155°	1280	1224	1058	878	797	592
165°	1250	1223	1133	1016	969	355
175°	1178	1181	1160	1118	1088	114
180°	1150	1150	1150	1150	1150	



TEST NUMBER: P522385

CATALOG NUMBER: SQW-F-075U-075D-92765-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0
2.5°	995.1	998.2	998.2	998.4	1006.1	997.7	997.5	997.4	992.8
5°	996.1	996.1	996.1	994.4	1004.9	993.4	993.2	991.2	991.2
7.5°	990.4	988.7	989.8	987.7	997.3	984.9	985.5	983.4	983.0
10°	983.4	982.4	984.4	980.7	990.2	977.8	978.5	975.5	973.6
12.5°	975.6	974.6	977.3	972.1	982.4	970.0	969.9	966.2	965.8
15°	960.9	960.9	962.9	959.2	967.8	955.4	955.1	951.1	946.3
17.5°	943.6	941.5	946.1	940.0	948.8	934.9	935.9	930.2	924.8
20°	928.7	925.8	933.6	926.0	935.5	919.3	921.9	913.0	909.2
22.5°	911.5	909.4	918.0	911.1	919.9	904.5	905.5	894.3	891.2
25°	884.8	883.8	893.6	885.9	894.5	878.3	878.9	867.1	863.3
27.5°	855.3	854.5	865.2	857.6	865.0	850.0	850.4	837.4	832.6
30°	835.0	835.0	845.7	838.0	844.7	830.4	830.1	816.3	811.5
32.5°	813.1	812.3	823.0	816.9	822.9	807.8	806.6	793.6	788.9
35°	778.3	778.3	789.1	782.4	788.1	774.7	771.5	758.7	754.9
37.5°	741.6	740.6	751.4	747.2	752.3	738.2	733.8	720.1	719.1
40°	715.8	714.9	725.6	723.7	726.6	713.2	708.0	694.2	689.5
42.5°	689.3	689.8	699.0	697.2	700.8	687.4	682.2	667.7	665.2
45°	648.4	647.5	657.2	656.4	661.1	647.8	641.6	625.9	624.0
47.5°	605.9	606.2	614.8	615.9	618.8	606.5	599.2	583.7	581.8
50°	576.2	578.1	585.9	587.0	589.8	578.4	570.3	555.6	553.7
52.5°	547.3	548.4	556.3	559.6	560.2	550.2	540.6	526.7	524.8
55°	501.0	503.8	510.7	514.7	515.6	507.0	496.1	482.4	479.5
57.5°	454.1	456.0	465.4	469.9	470.1	461.1	450.2	437.4	432.8
60°	422.9	424.8	432.6	439.5	440.4	429.9	418.9	406.2	402.3
62.5°	390.8	392.7	400.6	407.4	408.4	398.7	386.9	374.2	371.1
65°	341.8	343.7	351.6	359.4	360.4	350.8	338.9	326.1	323.2
67.5°	293.8	295.7	303.3	309.8	311.9	301.6	290.6	278.8	275.0
70°	261.7	263.6	270.5	275.5	278.3	268.8	257.8	246.0	242.2
72.5°	228.1	229.3	236.1	241.8	242.4	234.4	224.2	214.8	211.7
75°	180.7	182.6	186.5	192.4	191.4	183.8	175.8	168.9	165.0
77.5°	135.2	137.3	141.0	144.9	145.5	138.4	131.6	124.7	122.1
80°	105.5	108.3	111.3	115.2	114.3	109.5	103.5	96.6	94.7
82.5°	78.1	80.2	84.0	87.1	84.6	81.3	77.0	70.1	68.2
85°	40.0	41.0	44.9	47.8	44.9	44.0	40.0	35.1	33.2
87.5°	8.6	10.1	13.3	17.1	14.1	14.8	11.7	7.8	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.6	1.6	1.6	3.2	4.7	16.9	18.8	16.4	16.4
95°	4.9	4.9	6.8	21.5	20.5	34.8	48.8	45.9	45.9
97.5°	10.0	10.9	15.6	63.5	47.9	46.5	66.0	73.5	74.8
100°	14.6	15.6	23.4	103.8	71.3	60.8	72.3	86.0	88.9
102.5°	20.1	21.8	37.5	163.2	100.2	71.4	82.4	94.6	98.2
105°	30.3	33.1	77.1	273.6	151.4	93.1	103.5	108.5	111.3
107.5°	44.9	56.6	207.8	384.4	214.8	123.0	134.0	133.3	135.7
110°	60.5	84.4	359.4	445.1	261.7	146.2	146.5	154.2	151.4



TEST NUMBER: P522385

CATALOG NUMBER: SQW-F-075U-075D-92765-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	100.4	167.8	535.9	503.4	308.6	174.0	158.2	175.4	176.4
115°	275.4	473.0	732.4	585.1	377.9	223.2	179.7	196.4	203.1
117.5°	682.8	823.0	833.0	657.7	447.1	278.3	204.3	211.7	220.5
120°	925.8	954.4	879.9	702.3	493.2	317.5	224.6	221.9	231.4
122.5°	1021.1	1010.8	918.2	743.8	538.5	359.0	249.6	234.3	240.8
125°	1097.7	1070.9	965.8	801.2	604.5	421.2	296.9	254.9	254.9
127.5°	1143.4	1112.2	1009.6	852.2	664.1	484.0	353.7	288.3	279.3
130°	1169.9	1136.5	1036.1	887.4	703.1	524.6	393.6	317.1	302.7
132.5°	1190.2	1159.9	1061.1	915.0	741.4	564.4	433.4	352.8	329.3
135°	1214.8	1189.1	1099.6	957.3	794.9	624.0	493.2	414.5	390.6
137.5°	1230.7	1210.6	1134.2	992.0	844.5	683.2	553.5	474.5	452.9
140°	1239.3	1223.0	1151.4	1012.5	875.0	721.3	595.7	515.2	495.1
142.5°	1247.9	1234.7	1163.9	1035.3	904.7	759.4	637.1	556.5	535.0
145°	1265.6	1250.4	1184.6	1062.8	947.3	812.6	701.2	616.8	597.7
147.5°	1278.1	1259.8	1201.6	1092.3	987.5	860.9	760.0	678.5	659.6
150°	1281.3	1262.2	1210.9	1108.2	1011.7	890.5	795.9	718.3	700.2
152.5°	1278.9	1264.4	1218.0	1121.6	1032.0	919.2	828.7	756.7	740.0
155°	1280.3	1266.9	1223.6	1139.7	1057.6	959.3	877.9	814.1	796.9
157.5°	1274.4	1265.6	1227.5	1153.6	1081.3	995.1	923.1	869.3	852.0
160°	1274.4	1261.1	1227.5	1161.6	1097.7	1018.4	951.2	903.0	888.7
162.5°	1265.8	1254.0	1226.8	1167.3	1113.3	1040.1	977.7	932.8	922.3
165°	1250.0	1240.5	1222.7	1174.8	1132.8	1069.8	1015.6	975.4	968.8
167.5°	1237.7	1224.5	1214.8	1174.6	1146.1	1091.1	1047.7	1014.4	1010.6
170°	1223.6	1215.0	1207.0	1172.4	1152.3	1106.5	1070.3	1037.0	1033.2
172.5°	1205.7	1200.9	1196.9	1171.0	1156.3	1119.6	1089.8	1059.6	1052.7
175°	1177.7	1181.6	1180.7	1167.8	1160.2	1136.3	1118.2	1096.5	1087.9
177.5°	1160.6	1159.0	1162.9	1160.5	1159.8	1145.3	1140.2	1125.5	1130.1
180°	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4

(END OF REPORT)