

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: P522388

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

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522388  
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 (4500K)  
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 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6356.8 lumens  
Efficiency: N/A  
Efficacy: 110.4 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

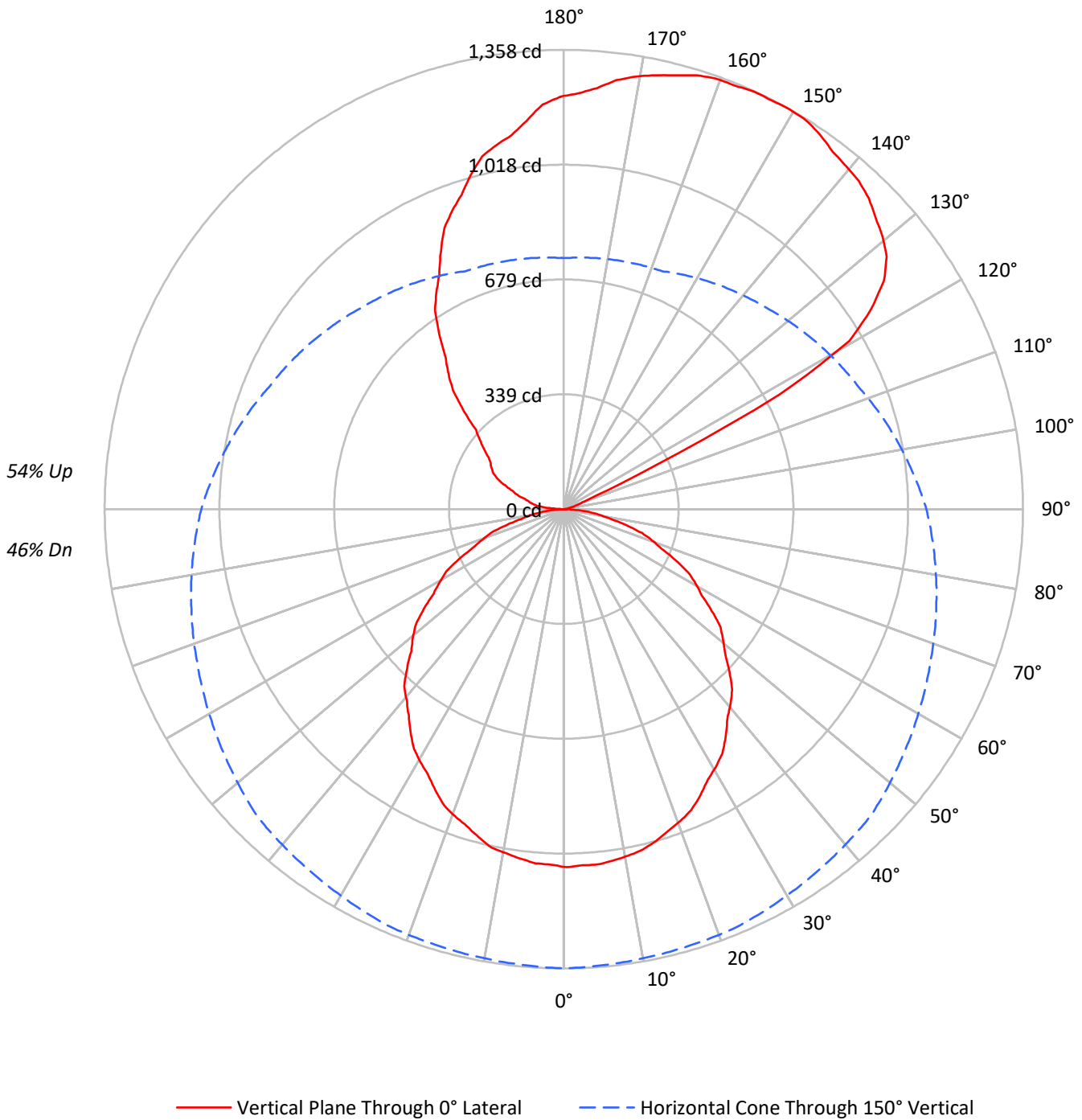
Input Watts (W): 57.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**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°	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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.1	1.6
10°-20°	286.1	4.5
20°-30°	430.4	6.8
30°-40°	514.1	8.1
40°-50°	528.5	8.3
50°-60°	475.6	7.5
60°-70°	361.9	5.7
70°-80°	205.1	3.2
80°-90°	53.9	0.8
90°-100°	32.0	0.5
100°-110°	138.7	2.2
110°-120°	395.6	6.2
120°-130°	601.5	9.5
130°-140°	650.6	10.2
140°-150°	621.7	9.8
150°-160°	511.3	8.0
160°-170°	334.1	5.3
170°-180°	115.6	1.8
0°-30°	816.6	12.8
0°-40°	1330.6	20.9
0°-60°	2334.7	36.7
0°-90°	2955.7	46.5
90°-120°	566.4	8.9
90°-150°	2440.2	38.4
90°-180°	3401.0	53.5
0°-180°	6356.8	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°	5	7	22	52	49	7
105°	32	82	160	110	118	37
115°	292	776	400	190	215	401
125°	1163	1023	640	315	270	1022
135°	1287	1165	842	522	414	992
145°	1341	1255	1004	743	633	840
155°	1356	1296	1121	930	844	627
165°	1324	1296	1200	1076	1026	376
175°	1248	1251	1229	1185	1153	121
180°	1219	1219	1219	1219	1219	



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**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°	1.7	1.7	1.7	3.3	5.0	17.9	19.9	17.4	17.4
95°	5.2	5.2	7.2	22.7	21.7	36.9	51.7	48.6	48.6
97.5°	10.6	11.6	16.6	67.3	50.7	49.3	69.9	77.8	79.3
100°	15.5	16.5	24.8	109.9	75.5	64.4	76.6	91.1	94.2
102.5°	21.3	23.1	39.7	172.9	106.2	75.6	87.3	100.2	104.1
105°	32.1	35.1	81.7	289.9	160.4	98.7	109.7	114.9	118.0
107.5°	47.6	59.9	220.2	407.3	227.6	130.3	142.0	141.2	143.8
110°	64.2	89.4	380.8	471.6	277.3	154.9	155.2	163.4	160.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	106.4	177.8	567.9	533.4	327.0	184.3	167.6	185.9	186.9
115°	291.8	501.2	776.0	620.0	400.4	236.5	190.4	208.1	215.2
117.5°	723.5	872.0	882.6	696.9	473.7	294.8	216.5	224.3	233.6
120°	980.9	1011.3	932.3	744.1	522.5	336.4	238.0	235.1	245.2
122.5°	1081.9	1071.0	972.8	788.1	570.5	380.3	264.5	248.3	255.2
125°	1163.0	1134.7	1023.3	848.9	640.5	446.2	314.6	270.1	270.1
127.5°	1211.5	1178.5	1069.7	902.9	703.6	512.8	374.8	305.4	295.9
130°	1239.6	1204.2	1097.8	940.3	745.0	555.8	417.0	335.9	320.8
132.5°	1261.1	1228.9	1124.3	969.5	785.6	598.0	459.2	373.8	348.9
135°	1287.2	1259.9	1165.1	1014.3	842.3	661.2	522.5	439.2	413.9
137.5°	1304.0	1282.7	1201.7	1051.0	894.8	723.8	586.5	502.8	479.9
140°	1313.1	1295.9	1219.9	1072.8	927.1	764.2	631.2	545.8	524.6
142.5°	1322.2	1308.2	1233.2	1097.0	958.6	804.6	675.1	589.7	566.8
145°	1341.0	1324.8	1255.1	1126.1	1003.7	861.0	742.9	653.5	633.2
147.5°	1354.2	1334.8	1273.1	1157.4	1046.3	912.2	805.2	718.9	698.8
150°	1357.6	1337.3	1283.1	1174.2	1072.0	943.5	843.3	761.1	741.9
152.5°	1355.1	1339.7	1290.5	1188.4	1093.5	973.9	878.1	801.7	784.1
155°	1356.5	1342.4	1296.5	1207.6	1120.6	1016.4	930.2	862.5	844.3
157.5°	1350.3	1341.0	1300.6	1222.3	1145.6	1054.4	978.0	921.1	902.7
160°	1350.3	1336.1	1300.6	1230.8	1163.0	1079.1	1007.8	956.8	941.6
162.5°	1341.2	1328.7	1299.8	1236.8	1179.6	1102.1	1036.0	988.3	977.2
165°	1324.4	1314.3	1295.5	1244.8	1200.3	1133.5	1076.1	1033.5	1026.4
167.5°	1311.4	1297.4	1287.2	1244.5	1214.3	1156.1	1110.0	1074.8	1070.7
170°	1296.5	1287.4	1278.9	1242.2	1221.0	1172.4	1134.1	1098.8	1094.7
172.5°	1277.5	1272.4	1268.2	1240.7	1225.1	1186.3	1154.7	1122.7	1115.4
175°	1247.9	1251.9	1251.0	1237.3	1229.2	1204.0	1184.8	1161.8	1152.7
177.5°	1229.7	1228.0	1232.1	1229.6	1228.8	1213.5	1208.1	1192.5	1197.4
180°	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9

(END OF REPORT)