

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: P522370

Luminaire Tested: **SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522370  
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-025D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4581.2 lumens  
Efficiency: N/A  
Efficacy: 114.5 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

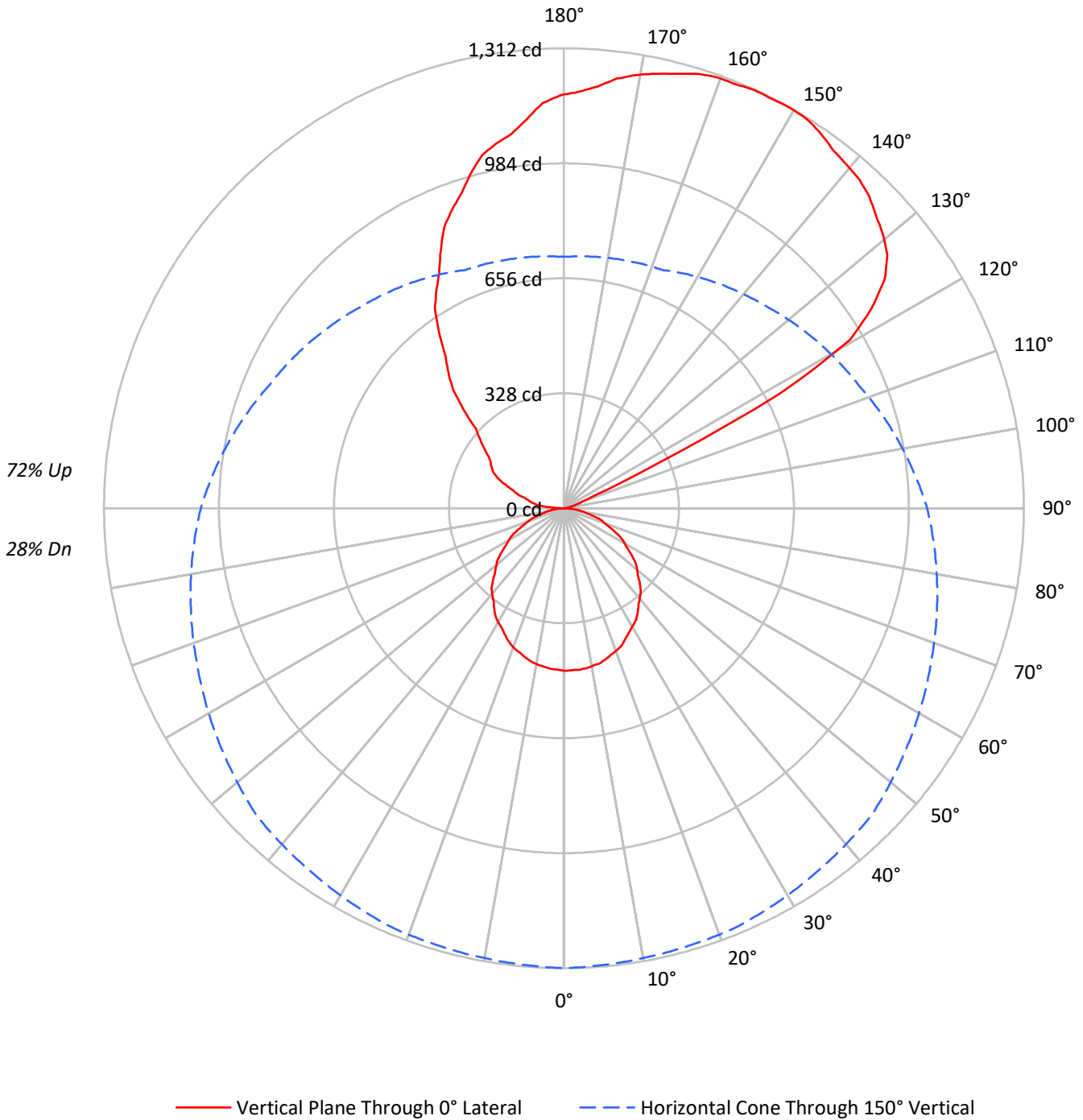
Input Watts (W): 40  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	81	83	79	76	73	62	60	58	46	45	44	32	31	30	24
2	84	77	71	66	75	69	64	60	54	51	48	41	38	36	28	27	25	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	46	63	54	47	42	42	38	34	32	29	26	22	20	18	14
5	64	53	45	39	57	48	41	36	38	33	29	28	25	23	20	18	16	12
6	59	47	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	55	43	35	30	49	38	32	27	31	26	22	23	20	17	16	14	12	9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	13	11	8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	14	11	10	8
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	13	10	9	7

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

	0°	90°	180°
0°	7492	7492	7492
5°	7504	7569	7455
10°	7492	7558	7411
15°	7472	7522	7355
20°	7423	7474	7285
25°	7304	7393	7144
30°	7234	7308	7029
35°	7155	7234	6918
40°	7040	7124	6766
45°	6919	7010	6599
50°	6782	6882	6380
55°	6559	6728	6193
60°	6361	6555	5942
65°	6036	6380	5654
70°	5712	6090	5287
75°	5303	5614	4741
80°	4742	4928	4184
85°	3520	3705	2779



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.9	1.0
10°-20°	125.5	2.7
20°-30°	188.7	4.1
30°-40°	225.7	4.9
40°-50°	232.0	5.1
50°-60°	207.2	4.5
60°-70°	157.4	3.4
70°-80°	89.9	2.0
80°-90°	23.8	0.5
90°-100°	31.0	0.7
100°-110°	134.1	2.9
110°-120°	382.3	8.3
120°-130°	581.4	12.7
130°-140°	628.8	13.7
140°-150°	600.8	13.1
150°-160°	494.1	10.8
160°-170°	322.9	7.0
170°-180°	111.7	2.4
0°-30°	358.1	7.8
0°-40°	583.8	12.7
0°-60°	1023.0	22.3
0°-90°	1294.2	28.2
90°-120°	547.4	11.9
90°-150°	2358.3	51.5
90°-180°	3287.0	71.7
0°-180°	4581.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	464	464	464	464	464	
5°	463	463	467	462	460	44
15°	447	448	450	444	440	126
25°	410	415	415	408	401	189
35°	363	368	367	359	351	227
45°	303	307	307	298	289	234
55°	233	237	239	227	220	208
65°	158	163	167	155	148	156
75°	85	88	90	81	76	90
85°	19	22	20	18	15	23
90°	0	0	0	0	0	1
95°	5	7	21	50	47	6
105°	31	79	155	106	114	36
115°	282	750	387	184	208	388
125°	1124	989	619	304	261	988
135°	1244	1126	814	505	400	959
145°	1296	1213	970	718	612	812
155°	1311	1253	1083	899	816	606
165°	1280	1252	1160	1040	992	364
175°	1206	1209	1188	1145	1114	117
180°	1178	1178	1178	1178	1178	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	464.0	464.0	464.0	464.0	464.0	464.0	464.0	464.0	464.0
2.5°	462.4	463.2	464.0	464.1	468.0	463.3	463.2	462.4	460.8
5°	463.0	463.0	463.0	462.1	467.0	461.1	462.0	460.0	460.0
7.5°	460.2	459.4	459.6	458.5	463.4	457.3	457.4	456.2	456.0
10°	457.0	457.0	458.0	456.1	461.0	454.2	455.0	453.0	452.0
12.5°	453.8	453.0	454.0	452.1	457.0	450.2	450.2	447.4	447.2
15°	447.0	447.0	448.0	446.1	450.0	444.1	444.0	441.0	440.0
17.5°	438.4	438.2	440.4	437.5	441.4	434.6	434.6	432.0	430.4
20°	432.0	431.0	434.0	431.1	435.0	428.2	429.0	424.0	424.0
22.5°	424.0	423.0	426.8	423.1	427.0	420.2	421.0	415.2	414.4
25°	410.0	411.0	415.0	412.1	415.0	408.2	408.0	402.0	401.0
27.5°	398.4	397.6	402.8	398.7	401.6	394.8	394.8	387.6	386.6
30°	388.0	388.0	394.0	389.1	392.0	385.2	386.0	378.0	377.0
32.5°	378.4	378.4	383.6	380.3	382.4	375.6	374.8	367.6	366.6
35°	363.0	363.0	368.0	365.0	367.0	360.2	359.0	351.0	351.0
37.5°	346.0	345.2	350.0	348.0	350.0	343.4	341.0	334.0	333.0
40°	334.0	334.0	338.0	336.0	338.0	332.1	329.0	322.0	321.0
42.5°	321.2	321.2	326.0	324.0	326.0	319.4	316.2	309.2	308.2
45°	303.0	303.0	307.0	306.0	307.0	301.1	298.0	290.0	289.0
47.5°	283.6	282.8	286.6	286.8	288.4	281.9	277.8	270.2	269.2
50°	270.0	270.0	273.0	274.0	274.0	269.1	265.0	255.0	254.0
52.5°	254.0	254.8	257.8	258.8	259.6	253.1	249.0	241.4	240.4
55°	233.0	232.0	237.0	238.0	239.0	233.1	227.0	221.0	220.0
57.5°	211.4	211.2	215.4	216.6	217.4	212.5	206.4	199.6	198.4
60°	197.0	196.0	201.0	203.0	203.0	198.1	192.0	186.0	184.0
62.5°	180.2	182.4	185.8	187.8	189.4	183.7	176.8	171.6	169.6
65°	158.0	159.0	163.0	165.0	167.0	161.1	155.0	150.0	148.0
67.5°	135.4	137.2	140.2	142.2	144.2	138.5	132.4	128.2	126.4
70°	121.0	122.0	125.0	127.0	129.0	124.1	118.0	113.0	112.0
72.5°	106.6	107.6	110.6	111.8	113.0	108.1	102.8	99.4	97.6
75°	85.0	86.0	88.0	89.0	90.0	85.1	81.0	78.0	76.0
77.5°	64.6	64.6	66.6	67.4	67.4	64.5	60.6	57.8	56.2
80°	51.0	51.0	53.0	53.0	53.0	50.1	47.0	45.0	45.0
82.5°	37.4	38.2	40.2	40.2	39.4	37.2	35.0	33.0	33.0
85°	19.0	20.0	22.0	22.0	20.0	20.0	18.0	17.0	15.0
87.5°	4.8	5.6	7.2	8.0	6.4	6.4	4.8	3.2	3.2
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	4.8	17.3	19.2	16.8	16.8
95°	5.0	5.0	7.0	22.0	21.0	35.7	50.0	47.0	47.0
97.5°	10.2	11.2	16.0	65.0	49.0	47.6	67.6	75.2	76.6
100°	15.0	16.0	24.0	106.2	73.0	62.2	74.0	88.1	91.0
102.5°	20.6	22.4	38.4	167.1	102.6	73.1	84.4	96.9	100.6
105°	31.0	33.9	79.0	280.2	155.0	95.4	106.0	111.1	114.0
107.5°	46.0	57.9	212.8	393.7	220.0	125.9	137.2	136.5	139.0
110°	62.0	86.4	368.0	455.7	268.0	149.7	150.0	157.9	155.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	102.8	171.8	548.8	515.5	316.0	178.1	162.0	179.6	180.6
115°	282.0	484.4	750.0	599.2	387.0	228.6	184.0	201.2	208.0
117.5°	699.2	842.7	853.0	673.5	457.8	284.9	209.2	216.8	225.8
120°	948.0	977.3	901.0	719.1	505.0	325.1	230.0	227.2	237.0
122.5°	1045.6	1035.0	940.2	761.6	551.4	367.6	255.6	240.0	246.6
125°	1124.0	1096.6	989.0	820.4	619.0	431.3	304.0	261.0	261.0
127.5°	1170.8	1138.9	1033.8	872.6	680.0	495.6	362.2	295.2	286.0
130°	1198.0	1163.8	1061.0	908.7	720.0	537.2	403.0	324.7	310.0
132.5°	1218.8	1187.7	1086.6	937.0	759.2	577.9	443.8	361.3	337.2
135°	1244.0	1217.6	1126.0	980.2	814.0	639.0	505.0	424.4	400.0
137.5°	1260.2	1239.7	1161.4	1015.8	864.8	699.6	566.8	485.9	463.8
140°	1269.0	1252.4	1179.0	1036.8	896.0	738.6	610.0	527.5	507.0
142.5°	1277.8	1264.3	1191.8	1060.2	926.4	777.6	652.4	569.9	547.8
145°	1296.0	1280.4	1213.0	1088.3	970.0	832.1	718.0	631.6	612.0
147.5°	1308.8	1290.0	1230.4	1118.6	1011.2	881.5	778.2	694.8	675.4
150°	1312.0	1292.4	1240.0	1134.8	1036.0	911.8	815.0	735.6	717.0
152.5°	1309.6	1294.7	1247.2	1148.5	1056.8	941.2	848.6	774.8	757.8
155°	1311.0	1297.3	1253.0	1167.1	1083.0	982.3	899.0	833.6	816.0
157.5°	1305.0	1296.0	1257.0	1181.3	1107.2	1019.0	945.2	890.2	872.4
160°	1305.0	1291.3	1257.0	1189.5	1124.0	1042.8	974.0	924.7	910.0
162.5°	1296.2	1284.1	1256.2	1195.3	1140.0	1065.1	1001.2	955.2	944.4
165°	1280.0	1270.2	1252.0	1203.0	1160.0	1095.5	1040.0	998.8	992.0
167.5°	1267.4	1253.9	1244.0	1202.7	1173.6	1117.3	1072.8	1038.7	1034.8
170°	1253.0	1244.2	1236.0	1200.5	1180.0	1133.1	1096.0	1061.9	1058.0
172.5°	1234.6	1229.7	1225.6	1199.1	1184.0	1146.5	1116.0	1085.0	1078.0
175°	1206.0	1209.9	1209.0	1195.8	1188.0	1163.6	1145.0	1122.8	1114.0
177.5°	1188.4	1186.8	1190.8	1188.4	1187.6	1172.7	1167.6	1152.5	1157.2
180°	1178.0	1178.0	1178.0	1178.0	1178.0	1178.0	1178.0	1178.0	1178.0

(END OF REPORT)