

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: P511843

Luminaire Tested: **SQW-F-100U-025D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511843  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-100U-025D-935-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

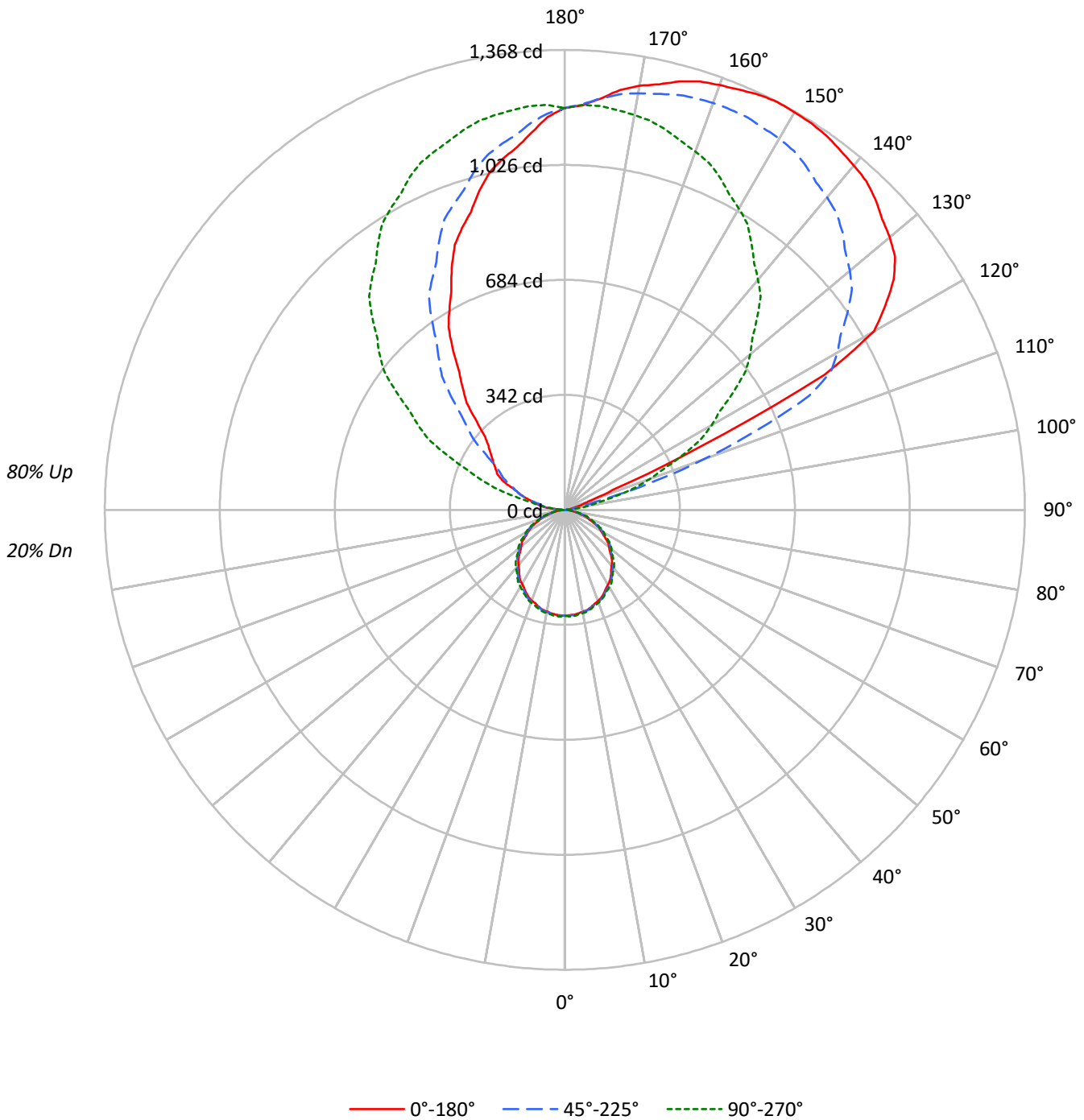
Lumens per Lamp: N/A  
Luminaire Lumens: 4200.7 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 35.8  
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	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	67	67	67	47	47	47	29	29	29	20				
1	91	87	83	80	80	77	74	71	58	56	55	41	40	39	25	25	24	17				
2	83	76	70	65	73	67	62	58	51	48	45	36	34	32	22	21	20	14				
3	76	67	60	54	66	59	53	49	45	41	38	32	29	27	20	18	17	12				
4	69	59	51	46	61	52	46	41	40	35	32	28	26	23	18	16	15	10				
5	63	52	44	39	56	46	40	35	35	31	27	25	22	20	16	14	13	9				
6	58	47	39	33	51	41	35	30	32	27	24	23	20	17	14	13	11	8				
7	53	42	34	29	47	37	31	26	29	24	21	21	18	15	13	11	10	7				
8	49	38	30	25	44	34	27	23	26	21	18	19	16	13	12	10	9	6				
9	46	34	27	22	40	31	24	20	24	19	16	17	14	12	11	9	8	6				
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	10	8	7	5				

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

	0°	90°	180°
0°	10185	10185	10185
5°	10143	10279	10143
10°	10093	10230	10067
15°	10036	10180	9979
20°	9911	10086	9883
25°	9766	9976	9677
30°	9561	9874	9497
35°	9410	9709	9307
40°	9135	9565	9029
45°	8896	9280	8782
50°	8641	9108	8515
55°	8310	8878	8310
60°	7950	8609	7950
65°	7542	8245	7542
70°	7006	7799	6930
75°	6101	7049	6213
80°	5021	5802	5170
85°	2816	4076	3446



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.8	0.7
10°-20°	84.9	2.0
20°-30°	127.1	3.0
30°-40°	150.9	3.6
40°-50°	153.3	3.6
50°-60°	136.6	3.3
60°-70°	102.0	2.4
70°-80°	56.1	1.3
80°-90°	13.9	0.3
90°-100°	29.4	0.7
100°-110°	138.8	3.3
110°-120°	407.7	9.7
120°-130°	592.8	14.1
130°-140°	634.2	15.1
140°-150°	604.5	14.4
150°-160°	498.8	11.9
160°-170°	326.7	7.8
170°-180°	113.3	2.7
0°-30°	241.8	5.8
0°-40°	392.6	9.3
0°-60°	682.5	16.2
0°-90°	854.5	20.3
90°-120°	575.9	13.7
90°-150°	2407.4	57.3
90°-180°	3346.0	79.7
0°-180°	4200.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	315	315	315	315	315	
5°	313	314	317	314	313	30
15°	300	302	304	300	298	84
25°	274	278	280	277	272	126
35°	239	244	246	242	236	149
45°	195	201	203	199	192	150
55°	148	154	158	153	148	132
65°	99	103	108	103	99	98
75°	49	52	56	52	50	53
85°	8	10	11	11	9	11
90°	2	2	2	3	7	1
95°	8	10	22	36	32	10
105°	37	104	154	98	105	46
115°	438	802	389	186	202	498
125°	1194	1028	612	285	263	1057
135°	1306	1167	810	478	370	1008
145°	1358	1250	968	690	579	851
155°	1363	1287	1092	884	796	630
165°	1319	1279	1169	1041	982	374
175°	1228	1228	1206	1155	1127	119
180°	1195	1195	1195	1195	1195	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4
2.5°	313.4	314.7	314.7	314.8	317.4	314.8	314.7	314.7	314.1
5°	312.9	312.9	313.7	313.8	317.1	313.8	313.7	312.9	312.9
7.5°	310.5	310.7	311.5	311.4	314.1	310.6	310.7	310.5	310.4
10°	307.8	308.6	309.5	308.7	312.0	307.9	308.7	307.8	307.0
12.5°	305.1	306.0	306.8	306.0	309.3	305.9	306.0	305.1	305.0
15°	300.2	301.1	301.9	301.2	304.5	300.3	300.2	299.4	298.5
17.5°	293.2	294.6	295.8	295.1	298.2	294.3	295.0	293.0	291.6
20°	288.4	289.3	291.8	291.0	293.5	290.2	291.0	287.6	287.6
22.5°	283.0	283.9	286.4	285.6	288.8	284.8	285.6	282.2	281.5
25°	274.1	274.9	277.5	276.7	280.0	275.9	276.6	272.4	271.6
27.5°	263.8	264.8	268.9	268.1	271.6	266.6	267.3	263.1	262.1
30°	256.4	258.0	261.4	260.7	264.8	259.9	260.6	256.3	254.7
32.5°	249.6	251.3	254.0	254.6	257.4	253.1	253.2	248.9	247.3
35°	238.7	240.3	243.7	243.8	246.3	242.1	242.0	237.8	236.1
37.5°	226.2	227.7	231.4	232.5	234.3	230.5	229.6	225.3	223.7
40°	216.7	217.6	222.6	224.4	226.9	221.1	220.1	215.9	214.2
42.5°	208.0	209.5	213.9	214.9	216.7	212.9	211.3	207.1	205.4
45°	194.8	196.5	200.7	202.4	203.2	200.0	199.0	194.8	192.3
47.5°	181.5	183.1	187.4	189.3	190.1	187.6	185.0	181.4	179.0
50°	172.0	173.7	177.9	180.5	181.3	178.8	176.3	172.0	169.5
52.5°	163.3	164.3	168.5	171.7	171.9	170.1	166.8	162.6	160.7
55°	147.6	150.1	154.3	157.7	157.7	156.1	152.6	148.4	147.6
57.5°	133.9	134.9	139.2	142.5	142.7	141.7	138.3	134.1	133.3
60°	123.1	124.8	129.0	132.4	133.3	131.6	128.2	124.0	123.1
62.5°	114.4	114.7	118.9	122.3	123.1	121.5	118.1	114.5	113.0
65°	98.7	99.5	102.9	107.1	107.9	106.3	102.9	99.5	98.7
67.5°	83.7	84.5	87.7	91.8	92.8	91.1	86.9	84.3	83.5
70°	74.2	75.0	77.6	81.0	82.6	81.0	76.7	74.2	73.4
72.5°	64.1	64.9	67.5	70.9	71.9	70.2	66.6	64.8	63.9
75°	48.9	50.6	52.3	55.7	56.5	55.7	52.3	50.6	49.8
77.5°	35.8	36.6	38.3	40.7	41.3	40.7	39.1	36.6	36.6
80°	27.0	27.8	29.5	31.2	31.2	31.2	30.4	27.8	27.8
82.5°	18.9	19.7	20.7	23.1	22.4	23.1	22.3	20.4	19.7
85°	7.6	8.4	10.1	11.8	11.0	11.8	11.0	9.3	9.3
87.5°	1.2	1.8	1.8	3.7	3.7	4.5	3.4	3.2	3.4
90°	2.5	2.5	2.5	1.7	1.7	2.5	3.3	5.8	6.7
92.5°	4.5	4.5	4.5	5.7	6.3	13.0	8.7	9.8	9.3
95°	8.3	9.1	10.0	25.7	22.5	33.0	35.8	34.1	31.6
97.5°	14.6	15.5	20.8	70.4	49.8	44.9	58.6	62.0	58.7
100°	20.0	20.8	30.8	113.9	72.4	57.7	66.6	77.4	77.4
102.5°	26.0	27.4	48.8	171.8	101.7	72.7	76.6	86.8	89.4
105°	37.4	41.5	104.0	290.6	153.9	97.0	98.2	102.4	104.8
107.5°	58.4	75.0	268.8	402.6	219.5	126.8	129.5	128.0	126.8
110°	82.4	119.8	441.8	471.4	268.8	150.0	148.1	147.2	144.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	154.3	256.1	619.6	531.7	317.4	175.8	162.8	172.5	168.1
115°	438.5	624.0	802.2	615.6	388.6	221.0	185.6	198.9	202.2
117.5°	870.6	941.7	892.2	686.6	458.2	273.0	206.4	218.7	225.0
120°	1060.9	1045.5	936.1	734.5	503.4	309.8	223.0	230.6	236.3
122.5°	1129.5	1093.2	972.7	775.8	546.7	349.8	244.3	241.3	248.3
125°	1194.1	1146.9	1027.7	832.1	612.4	413.9	285.4	258.1	262.9
127.5°	1237.5	1188.2	1075.9	886.6	677.2	479.8	339.2	284.6	279.6
130°	1261.5	1213.5	1105.9	917.5	719.8	523.7	377.8	308.4	296.2
132.5°	1280.1	1236.0	1131.8	950.8	756.4	565.5	417.7	339.6	321.5
135°	1306.4	1264.9	1167.4	995.1	809.6	627.4	478.5	395.5	369.5
137.5°	1326.5	1287.8	1195.9	1033.7	861.7	687.5	540.4	458.0	431.2
140°	1337.2	1299.8	1213.2	1057.2	893.7	725.3	581.6	498.7	471.8
142.5°	1346.5	1310.4	1227.9	1080.0	924.3	762.4	625.6	540.0	514.4
145°	1358.0	1323.8	1249.8	1112.6	967.7	817.2	689.8	602.7	579.1
147.5°	1363.5	1332.9	1266.8	1141.3	1009.8	869.6	751.9	668.6	643.2
150°	1365.5	1336.2	1274.8	1158.8	1035.1	903.3	790.5	712.5	686.5
152.5°	1367.5	1336.9	1280.1	1173.6	1058.4	934.4	828.4	754.5	731.1
155°	1363.0	1336.1	1287.3	1191.8	1091.7	978.6	883.7	815.8	795.5
157.5°	1352.7	1334.6	1288.8	1206.5	1118.2	1018.8	935.6	874.1	854.1
160°	1344.7	1329.2	1288.1	1214.7	1134.2	1043.9	966.9	910.7	892.0
162.5°	1336.0	1319.9	1284.8	1220.3	1149.5	1067.6	997.5	943.4	928.6
165°	1318.9	1304.2	1278.9	1226.1	1169.1	1100.0	1041.0	994.1	981.9
167.5°	1296.6	1287.5	1266.8	1227.9	1184.4	1128.3	1077.9	1040.4	1029.7
170°	1280.6	1274.1	1258.1	1227.4	1192.4	1146.0	1102.5	1069.1	1060.9
172.5°	1260.0	1257.4	1246.8	1224.9	1199.1	1160.5	1123.8	1095.1	1087.6
175°	1228.2	1231.4	1228.2	1218.7	1205.7	1179.7	1155.0	1132.4	1126.7
177.5°	1204.2	1205.5	1207.6	1207.5	1205.6	1193.8	1180.3	1168.3	1169.6
180°	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9

(END OF REPORT)