

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: P511861

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

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511861
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-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

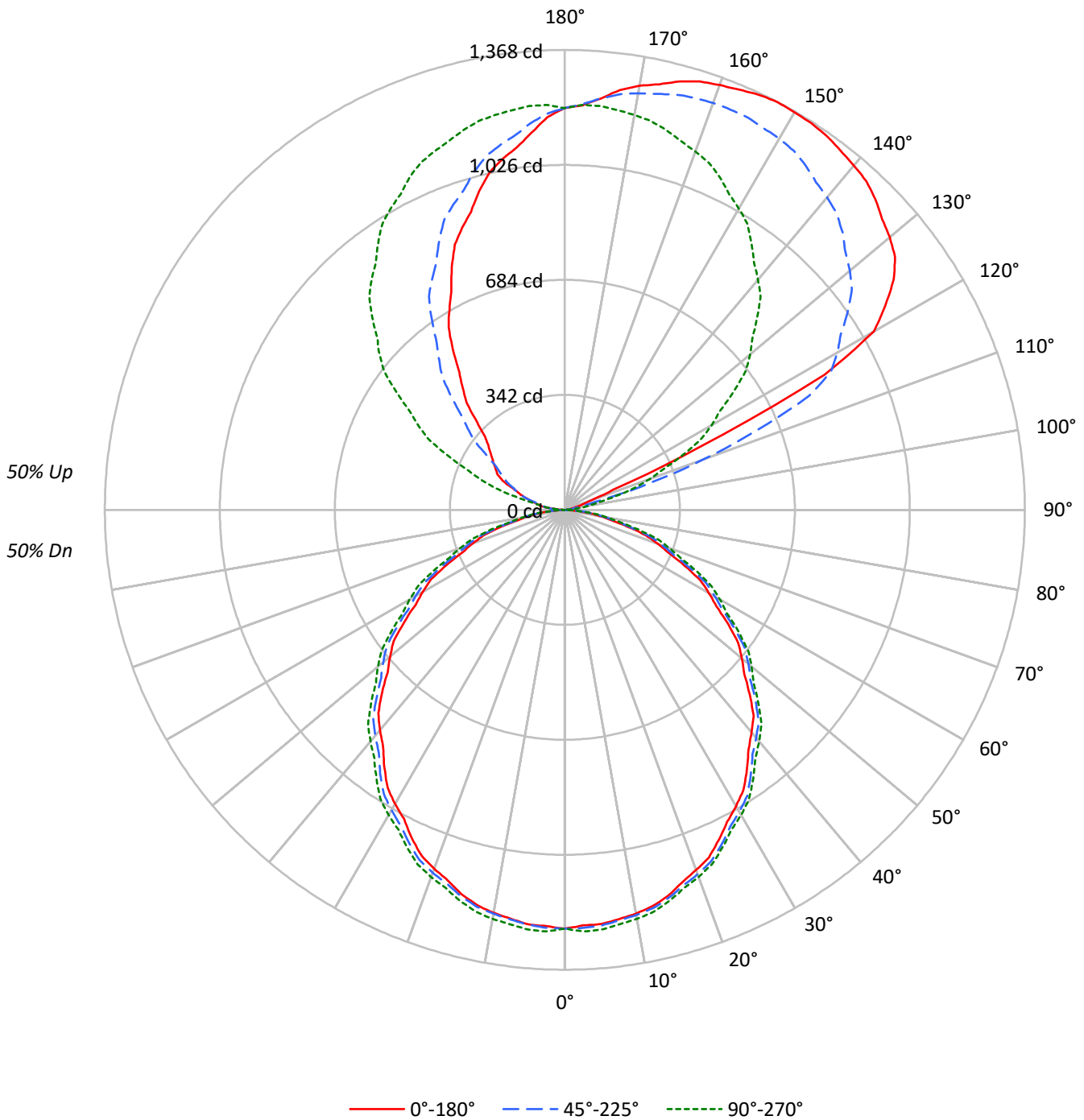
Lumens per Lamp: N/A
Luminaire Lumens: 6741.9 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 63.4
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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	50
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	50	49	48	42
2	89	82	75	70	82	75	70	66	64	60	57	54	51	48	44	42	40	35
3	81	72	64	58	75	66	60	55	56	52	48	47	44	41	39	36	34	30
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	35	32	29	26
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	50	42	36	58	47	40	34	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	18	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	40223	40223	40223
5°	40078	40623	40130
10°	39987	40512	39905
15°	39726	40261	39586
20°	39182	39935	39038
25°	38584	39514	38374
30°	37955	39088	37642
35°	37237	38499	36871
40°	36404	37896	36050
45°	35511	37205	35086
50°	34528	36437	34066
55°	33380	35418	32901
60°	31917	34371	31485
65°	30029	32993	29639
70°	27626	31138	27314
75°	23993	28197	24517
80°	19284	23375	20381
85°	10634	15932	13746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	1.7
10°-20°	335.7	5.0
20°-30°	503.2	7.5
30°-40°	598.3	8.9
40°-50°	612.5	9.1
50°-60°	546.0	8.1
60°-70°	407.0	6.0
70°-80°	222.4	3.3
80°-90°	52.8	0.8
90°-100°	29.4	0.4
100°-110°	138.8	2.1
110°-120°	407.7	6.0
120°-130°	592.8	8.8
130°-140°	634.2	9.4
140°-150°	604.5	9.0
150°-160°	498.8	7.4
160°-170°	326.7	4.8
170°-180°	113.3	1.7
0°-30°	956.7	14.2
0°-40°	1555.0	23.1
0°-60°	2713.5	40.2
0°-90°	3395.7	50.4
90°-120°	575.9	8.5
90°-150°	2407.4	35.7
90°-180°	3346.0	49.6
0°-180°	6741.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1246	1246	1246	1246	1246	
5°	1236	1241	1253	1239	1238	117
15°	1188	1195	1204	1190	1184	334
25°	1083	1101	1109	1095	1077	499
35°	945	964	977	957	935	590
45°	778	801	815	792	768	600
55°	593	616	629	611	584	529
65°	393	412	432	409	388	389
75°	192	208	226	209	196	206
85°	29	40	43	44	37	42
90°	2	2	2	3	7	2
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	



TEST NUMBER: P511861

CATALOG NUMBER: SQW-F-100U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6
2.5°	1237.5	1243.5	1245.0	1243.9	1255.1	1244.5	1244.3	1243.5	1239.6
5°	1236.4	1238.0	1241.4	1239.2	1253.2	1239.2	1238.9	1237.2	1238.0
7.5°	1228.3	1229.9	1231.8	1229.6	1243.6	1229.3	1229.1	1226.3	1227.1
10°	1219.5	1221.1	1223.7	1221.5	1235.5	1219.8	1220.3	1216.1	1217.0
12.5°	1207.3	1209.0	1213.6	1210.7	1224.0	1209.0	1209.5	1204.7	1204.8
15°	1188.3	1190.8	1195.0	1190.3	1204.3	1189.5	1190.0	1184.9	1184.1
17.5°	1161.1	1166.1	1171.3	1167.2	1179.7	1165.5	1166.2	1158.4	1156.2
20°	1140.2	1145.2	1153.7	1149.0	1162.1	1147.3	1148.7	1136.8	1136.0
22.5°	1119.3	1122.9	1133.5	1128.7	1141.9	1127.1	1127.7	1113.9	1113.7
25°	1082.9	1087.8	1100.6	1096.6	1109.0	1094.2	1094.7	1079.4	1077.0
27.5°	1045.6	1050.7	1063.6	1059.9	1072.6	1057.4	1058.4	1041.4	1036.5
30°	1017.9	1023.7	1037.3	1034.3	1048.3	1031.8	1031.4	1014.4	1009.5
32.5°	988.2	995.3	1009.0	1007.3	1020.0	1004.1	1002.4	985.4	980.5
35°	944.6	952.0	964.0	965.1	976.6	961.8	957.2	941.1	935.3
37.5°	897.3	904.3	917.2	919.5	930.7	915.2	908.8	894.1	887.5
40°	863.6	871.8	885.5	889.1	899.0	884.2	877.1	861.8	855.2
42.5°	830.5	838.8	853.1	858.7	866.0	851.8	843.4	828.7	820.8
45°	777.6	785.8	801.2	808.9	814.7	801.5	791.9	776.5	768.3
47.5°	723.8	732.8	748.4	757.9	761.7	749.7	740.8	723.7	714.5
50°	687.3	696.4	712.6	722.8	725.3	714.6	705.0	688.0	678.1
52.5°	650.2	658.0	674.2	685.7	686.8	678.1	667.9	650.9	641.6
55°	592.9	601.1	616.5	630.0	629.1	623.4	610.6	593.5	584.4
57.5°	534.0	540.6	556.6	571.0	571.3	564.7	552.4	535.5	526.6
60°	494.2	500.8	516.1	530.5	532.2	525.6	511.9	495.7	487.5
62.5°	454.4	460.3	475.0	490.7	492.4	485.8	471.4	455.9	447.7
65°	393.0	398.0	412.4	428.5	431.8	424.4	409.0	395.4	387.9
67.5°	332.5	337.2	350.7	366.6	370.9	362.5	348.6	335.7	328.4
70°	292.6	296.8	309.5	324.8	329.8	320.7	309.5	295.9	289.3
72.5°	252.2	256.3	269.0	283.6	287.9	279.5	269.0	256.8	254.2
75°	192.3	196.4	207.5	222.7	226.0	218.6	209.2	198.2	196.5
77.5°	138.8	141.5	151.5	162.0	164.1	159.7	154.0	144.2	143.4
80°	103.7	107.0	116.4	124.8	125.7	123.2	118.9	110.5	109.6
82.5°	72.7	75.3	83.3	91.1	89.9	90.1	87.2	79.4	79.3
85°	28.7	31.1	39.6	46.3	43.0	45.5	43.9	37.9	37.1
87.5°	3.2	3.9	7.2	13.8	12.5	14.6	12.8	9.9	10.1
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)