

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: P511867

Luminaire Tested: **SQW-F-100U-125D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511867
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-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

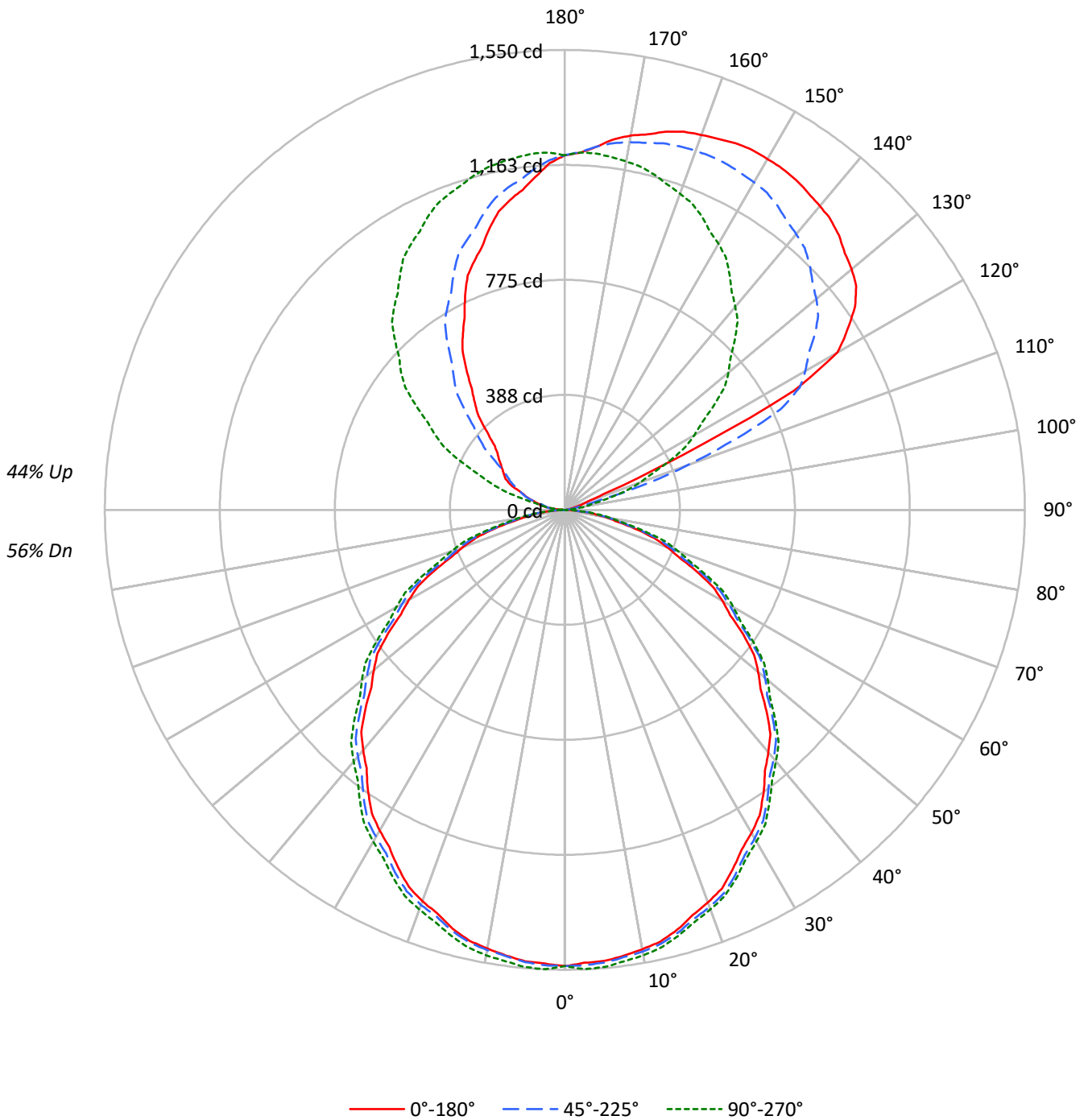
Lumens per Lamp: N/A
Luminaire Lumens: 7539.2 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 73.8
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



TEST NUMBER: P511867
CATALOG NUMBER: SQW-F-100U-125D-935-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P511867

CATALOG NUMBER: SQW-F-100U-125D-935-1D-UNV-STD-W-4

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56				
1	99	95	91	87	92	88	85	82	76	73	71	65	63	61	54	53	52	47				
2	90	83	76	71	83	77	71	67	66	62	59	57	54	51	48	45	43	39				
3	82	72	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33				
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28				
5	69	57	49	43	64	53	46	40	46	41	36	40	35	32	34	30	28	24				
6	63	51	43	37	59	48	41	35	42	36	31	36	31	28	31	27	24	21				
7	59	46	38	32	54	43	36	31	38	32	28	33	28	25	28	24	21	19				
8	54	42	34	29	50	39	32	27	34	29	25	30	25	22	26	22	19	17				
9	51	38	31	26	47	36	29	24	32	26	22	27	23	20	24	20	17	15				
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	49646	49646	49646
5°	49482	50137	49508
10°	49306	49998	49224
15°	48973	49648	48859
20°	48399	49268	48223
25°	47659	48771	47388
30°	46885	48146	46509
35°	45981	47408	45547
40°	44970	46677	44582
45°	43868	45832	43407
50°	42707	44827	42199
55°	41307	43632	40879
60°	39545	42322	39164
65°	37311	40665	37051
70°	34480	38304	34235
75°	30306	34623	30406
80°	24473	28694	25086
85°	14079	19674	16858



TEST NUMBER: P511867

CATALOG NUMBER: SQW-F-100U-125D-935-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	1.9
10°-20°	414.2	5.5
20°-30°	620.7	8.2
30°-40°	738.2	9.8
40°-50°	755.9	10.0
50°-60°	674.0	8.9
60°-70°	503.5	6.7
70°-80°	275.9	3.7
80°-90°	65.2	0.9
90°-100°	29.4	0.4
100°-110°	138.8	1.8
110°-120°	407.7	5.4
120°-130°	592.8	7.9
130°-140°	634.2	8.4
140°-150°	604.5	8.0
150°-160°	498.8	6.6
160°-170°	326.7	4.3
170°-180°	113.3	1.5
0°-30°	1180.2	15.7
0°-40°	1918.5	25.4
0°-60°	3348.4	44.4
0°-90°	4193.0	55.6
90°-120°	575.9	7.6
90°-150°	2407.4	31.9
90°-180°	3346.0	44.4
0°-180°	7539.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1537	1537	1537	1537	1537	
5°	1526	1532	1547	1530	1527	145
15°	1465	1475	1485	1468	1462	413
25°	1338	1358	1369	1351	1330	616
35°	1166	1190	1203	1182	1155	729
45°	961	991	1004	979	950	741
55°	734	762	775	754	726	655
65°	488	512	532	508	485	483
75°	243	261	278	259	244	259
85°	38	51	53	52	46	54
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: P511867

CATALOG NUMBER: SQW-F-100U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4
2.5°	1528.0	1535.2	1536.1	1535.1	1549.6	1535.7	1536.1	1534.6	1530.7
5°	1526.5	1528.1	1531.5	1529.4	1546.7	1528.6	1529.8	1526.5	1527.3
7.5°	1515.8	1517.0	1520.7	1516.8	1534.2	1516.6	1517.0	1513.5	1515.3
10°	1503.7	1506.2	1511.3	1506.6	1524.8	1505.8	1506.2	1502.0	1501.2
12.5°	1490.2	1491.4	1497.8	1493.1	1509.9	1491.6	1492.7	1486.5	1487.0
15°	1464.9	1469.0	1475.0	1467.8	1485.1	1467.0	1468.3	1462.4	1461.5
17.5°	1432.0	1439.3	1445.3	1438.1	1455.3	1436.7	1437.8	1429.6	1427.0
20°	1408.4	1415.0	1424.4	1417.2	1433.7	1413.1	1416.8	1403.3	1403.3
22.5°	1382.1	1386.0	1399.5	1391.6	1408.7	1388.1	1391.2	1374.3	1375.0
25°	1337.6	1343.3	1357.8	1351.4	1368.8	1347.3	1351.1	1331.6	1330.0
27.5°	1290.5	1297.3	1312.3	1306.4	1323.6	1302.3	1305.0	1283.7	1281.1
30°	1257.4	1264.9	1278.5	1274.7	1291.2	1270.6	1272.6	1250.6	1247.3
32.5°	1221.0	1229.8	1243.4	1242.9	1256.8	1238.1	1238.2	1215.5	1211.6
35°	1166.4	1174.6	1190.0	1190.3	1202.6	1183.7	1182.4	1160.3	1155.4
37.5°	1108.0	1117.4	1133.1	1135.2	1146.5	1128.8	1123.7	1101.7	1097.4
40°	1066.8	1077.6	1094.7	1097.4	1107.3	1088.4	1084.6	1062.5	1057.6
42.5°	1025.7	1036.4	1053.5	1057.6	1066.2	1050.5	1042.7	1020.7	1015.1
45°	960.6	972.1	990.9	997.0	1003.6	989.6	979.1	957.1	950.5
47.5°	894.6	905.4	925.0	933.4	937.5	925.6	914.7	891.8	884.5
50°	850.1	860.8	880.5	888.1	892.3	882.4	869.5	846.6	840.0
52.5°	803.5	814.3	833.9	842.9	846.4	837.8	825.0	802.0	795.5
55°	733.7	742.8	762.4	773.4	775.0	769.3	754.0	731.9	726.1
57.5°	660.9	669.8	689.2	701.1	703.9	698.1	681.8	659.9	654.9
60°	612.3	620.5	639.3	651.2	655.3	649.5	632.5	611.3	606.4
62.5°	563.0	570.6	588.7	601.3	606.7	600.3	582.6	562.1	557.1
65°	488.3	494.9	511.9	528.9	532.2	524.7	507.7	488.2	484.9
67.5°	414.4	419.4	435.3	452.0	456.3	448.7	431.1	414.5	410.5
70°	365.2	370.1	385.4	400.7	405.7	397.4	381.2	365.9	362.6
72.5°	315.9	320.2	335.5	349.4	354.4	347.5	331.3	317.4	314.1
75°	242.9	247.8	261.4	274.2	277.5	272.5	258.9	247.0	243.7
77.5°	174.7	177.9	189.6	199.4	202.2	198.6	188.2	177.7	176.1
80°	131.6	134.0	145.1	153.5	154.3	152.7	145.1	136.6	134.9
82.5°	91.8	94.9	105.3	112.3	110.5	111.5	105.9	98.1	97.2
85°	38.0	39.6	50.6	57.3	53.1	57.3	52.3	46.4	45.5
87.5°	4.5	5.2	9.3	16.5	14.5	18.0	14.8	11.3	11.5
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

TEST NUMBER: P511867

CATALOG NUMBER: SQW-F-100U-125D-935-1D-UNV-STD-W-4

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)