

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: P511868

Luminaire Tested: **SQW-F-100U-125D-940-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511868  
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-940-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

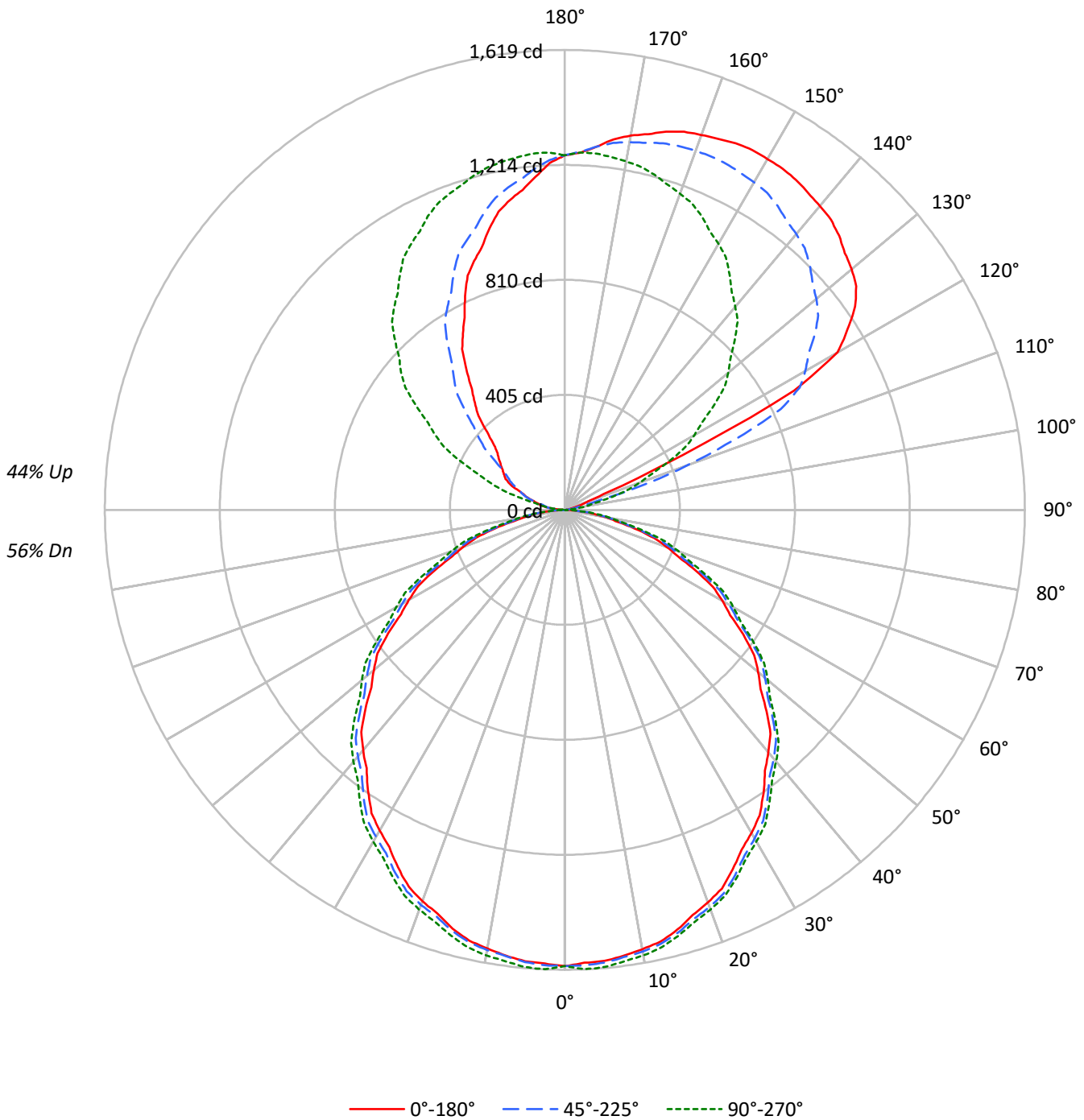
Lumens per Lamp: N/A  
Luminaire Lumens: 7875.1 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: General Diffuse

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



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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	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°	51861	51861	51861
5°	51686	52370	51715
10°	51503	52225	51418
15°	51156	51862	51039
20°	50557	51464	50375
25°	49782	50944	49497
30°	48977	50290	48582
35°	48027	49521	47577
40°	46976	48760	46568
45°	45823	47873	45339
50°	44611	46821	44078
55°	43148	45580	42703
60°	41308	44208	40907
65°	38976	42476	38701
70°	36010	40004	35764
75°	31653	36157	31765
80°	25551	29977	26221
85°	14672	20563	17636



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.8	1.9
10°-20°	432.6	5.5
20°-30°	648.4	8.2
30°-40°	771.1	9.8
40°-50°	789.6	10.0
50°-60°	704.1	8.9
60°-70°	525.9	6.7
70°-80°	288.2	3.7
80°-90°	68.1	0.9
90°-100°	30.7	0.4
100°-110°	145.0	1.8
110°-120°	425.9	5.4
120°-130°	619.2	7.9
130°-140°	662.5	8.4
140°-150°	631.5	8.0
150°-160°	521.0	6.6
160°-170°	341.3	4.3
170°-180°	118.4	1.5
0°-30°	1232.8	15.7
0°-40°	2004.0	25.4
0°-60°	3497.6	44.4
0°-90°	4379.8	55.6
90°-120°	601.5	7.6
90°-150°	2514.7	31.9
90°-180°	3495.0	44.4
0°-180°	7875.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1606	1606	1606	1606	1606	
5°	1594	1600	1616	1598	1595	151
15°	1530	1541	1551	1534	1527	431
25°	1397	1418	1430	1411	1389	644
35°	1218	1243	1256	1235	1207	761
45°	1003	1035	1048	1023	993	774
55°	766	796	810	788	758	684
65°	510	535	556	530	506	505
75°	254	273	290	270	255	270
85°	40	53	56	55	48	56
90°	3	3	2	4	7	2
95°	9	10	24	37	33	10
105°	39	109	161	103	110	48
115°	458	838	406	194	211	520
125°	1247	1073	640	298	275	1105
135°	1365	1220	846	500	386	1053
145°	1418	1306	1011	721	605	889
155°	1424	1345	1140	923	831	658
165°	1378	1336	1221	1087	1026	391
175°	1283	1283	1260	1206	1177	124
180°	1248	1248	1248	1248	1248	



TEST NUMBER: P511868

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0
2.5°	1596.1	1603.7	1604.5	1603.5	1618.6	1604.2	1604.5	1603.0	1598.9
5°	1594.5	1596.2	1599.8	1597.6	1615.6	1596.7	1598.0	1594.5	1595.4
7.5°	1583.4	1584.6	1588.5	1584.3	1602.6	1584.2	1584.6	1581.0	1582.9
10°	1570.7	1573.3	1578.6	1573.8	1592.7	1572.9	1573.4	1568.9	1568.1
12.5°	1556.6	1557.8	1564.5	1559.7	1577.2	1558.1	1559.3	1552.8	1553.3
15°	1530.2	1534.5	1540.8	1533.2	1551.3	1532.4	1533.7	1527.5	1526.7
17.5°	1495.8	1503.4	1509.8	1502.2	1520.1	1500.7	1501.8	1493.3	1490.5
20°	1471.2	1478.1	1487.9	1480.4	1497.6	1476.1	1480.0	1465.9	1465.9
22.5°	1443.7	1447.8	1461.8	1453.6	1471.5	1450.0	1453.2	1435.6	1436.3
25°	1397.2	1403.2	1418.3	1411.7	1429.8	1407.4	1411.3	1391.0	1389.2
27.5°	1348.0	1355.1	1370.7	1364.6	1382.5	1360.3	1363.2	1340.9	1338.1
30°	1313.5	1321.2	1335.5	1331.5	1348.7	1327.2	1329.3	1306.4	1302.9
32.5°	1275.4	1284.6	1298.9	1298.3	1312.8	1293.3	1293.4	1269.7	1265.6
35°	1218.3	1227.0	1243.0	1243.3	1256.2	1236.4	1235.1	1212.1	1206.9
37.5°	1157.4	1167.2	1183.6	1185.8	1197.5	1179.1	1173.8	1150.8	1146.3
40°	1114.4	1125.6	1143.5	1146.3	1156.7	1136.9	1132.9	1109.9	1104.7
42.5°	1071.4	1082.6	1100.5	1104.7	1113.7	1097.3	1089.2	1066.2	1060.3
45°	1003.4	1015.4	1035.1	1041.4	1048.3	1033.7	1022.8	999.7	992.8
47.5°	934.5	945.7	966.2	974.9	979.3	966.8	955.5	931.5	923.9
50°	888.0	899.2	919.7	927.7	932.0	921.7	908.2	884.3	877.4
52.5°	839.4	850.6	871.1	880.5	884.1	875.2	861.7	837.8	830.9
55°	766.4	775.9	796.4	807.9	809.6	803.6	787.6	764.5	758.5
57.5°	690.3	699.6	719.9	732.3	735.2	729.2	712.2	689.3	684.1
60°	639.6	648.2	667.8	680.2	684.5	678.5	660.7	638.6	633.4
62.5°	588.1	596.0	614.9	628.1	633.7	627.0	608.6	587.1	581.9
65°	510.1	517.0	534.7	552.4	555.9	548.1	530.3	510.0	506.5
67.5°	432.9	438.1	454.7	472.1	476.6	468.7	450.3	433.0	428.8
70°	381.4	386.6	402.6	418.6	423.7	415.1	398.2	382.2	378.8
72.5°	330.0	334.5	350.4	365.0	370.2	362.9	346.0	331.5	328.1
75°	253.7	258.9	273.1	286.4	289.8	284.7	270.4	258.0	254.6
77.5°	182.5	185.8	198.0	208.3	211.2	207.5	196.6	185.7	183.9
80°	137.4	140.0	151.5	160.4	161.2	159.5	151.5	142.7	141.0
82.5°	95.8	99.1	109.9	117.3	115.4	116.4	110.6	102.5	101.5
85°	39.6	41.4	52.9	59.8	55.5	59.8	54.6	48.4	47.6
87.5°	4.8	5.4	9.7	17.2	15.1	18.8	15.5	11.8	12.0
90°	2.6	2.6	2.6	1.7	1.7	2.6	3.5	6.1	7.0
92.5°	4.7	4.7	4.7	5.9	6.6	13.6	9.0	10.2	9.7
95°	8.7	9.5	10.4	26.9	23.5	34.5	37.4	35.6	33.0
97.5°	15.3	16.1	21.7	73.6	52.0	46.9	61.2	64.8	61.4
100°	20.9	21.7	32.2	119.0	75.6	60.3	69.5	80.8	80.8
102.5°	27.1	28.6	50.9	179.5	106.2	76.0	80.0	90.6	93.4
105°	39.1	43.4	108.6	303.6	160.8	101.3	102.6	107.0	109.5
107.5°	61.0	78.4	280.7	420.5	229.3	132.4	135.2	133.7	132.5
110°	86.0	125.1	461.5	492.4	280.7	156.7	154.7	153.8	151.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	161.1	267.6	647.2	555.4	331.5	183.6	170.0	180.2	175.6
115°	458.1	651.8	837.9	643.0	405.9	230.8	193.8	207.8	211.2
117.5°	909.3	983.6	931.9	717.2	478.6	285.1	215.6	228.4	235.0
120°	1108.2	1092.1	977.8	767.2	525.9	323.6	232.9	240.9	246.8
122.5°	1179.8	1141.9	1016.1	810.4	571.1	365.4	255.2	252.1	259.4
125°	1247.3	1198.0	1073.4	869.2	639.7	432.4	298.1	269.6	274.7
127.5°	1292.7	1241.2	1123.9	926.1	707.3	501.2	354.3	297.3	292.0
130°	1317.7	1267.5	1155.2	958.4	751.8	547.0	394.6	322.2	309.4
132.5°	1337.2	1291.1	1182.3	993.2	790.1	590.7	436.3	354.7	335.9
135°	1364.6	1321.3	1219.5	1039.5	845.7	655.3	499.8	413.1	385.9
137.5°	1385.7	1345.2	1249.2	1079.8	900.1	718.1	564.5	478.5	450.4
140°	1396.8	1357.7	1267.3	1104.3	933.5	757.6	607.6	520.9	492.8
142.5°	1406.5	1368.8	1282.6	1128.2	965.5	796.4	653.5	564.0	537.3
145°	1418.5	1382.8	1305.5	1162.1	1010.9	853.6	720.6	629.6	605.0
147.5°	1424.3	1392.3	1323.3	1192.2	1054.8	908.3	785.4	698.4	671.9
150°	1426.3	1395.7	1331.6	1210.5	1081.3	943.6	825.7	744.3	717.1
152.5°	1428.4	1396.5	1337.2	1226.0	1105.6	976.1	865.4	788.1	763.7
155°	1423.7	1395.7	1344.6	1244.9	1140.4	1022.2	923.1	852.2	830.9
157.5°	1413.0	1394.1	1346.2	1260.3	1168.0	1064.2	977.3	913.0	892.1
160°	1404.6	1388.5	1345.5	1268.8	1184.7	1090.4	1010.0	951.3	931.8
162.5°	1395.6	1378.7	1342.0	1274.6	1200.7	1115.2	1042.0	985.5	970.0
165°	1377.7	1362.4	1335.9	1280.7	1221.2	1149.0	1087.4	1038.4	1025.6
167.5°	1354.4	1344.9	1323.3	1282.6	1237.2	1178.6	1125.9	1086.8	1075.5
170°	1337.7	1330.9	1314.2	1282.1	1245.5	1197.1	1151.7	1116.7	1108.2
172.5°	1316.1	1313.4	1302.4	1279.5	1252.5	1212.2	1173.9	1143.8	1136.0
175°	1282.9	1286.3	1282.9	1273.1	1259.5	1232.3	1206.4	1182.8	1176.9
177.5°	1257.9	1259.3	1261.4	1261.3	1259.3	1247.0	1232.9	1220.4	1221.7
180°	1248.2	1248.2	1248.2	1248.2	1248.2	1248.2	1248.2	1248.2	1248.2

(END OF REPORT)