

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: P511807

Luminaire Tested: **SQW-F-075U-125D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511807  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-075U-125D-935-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

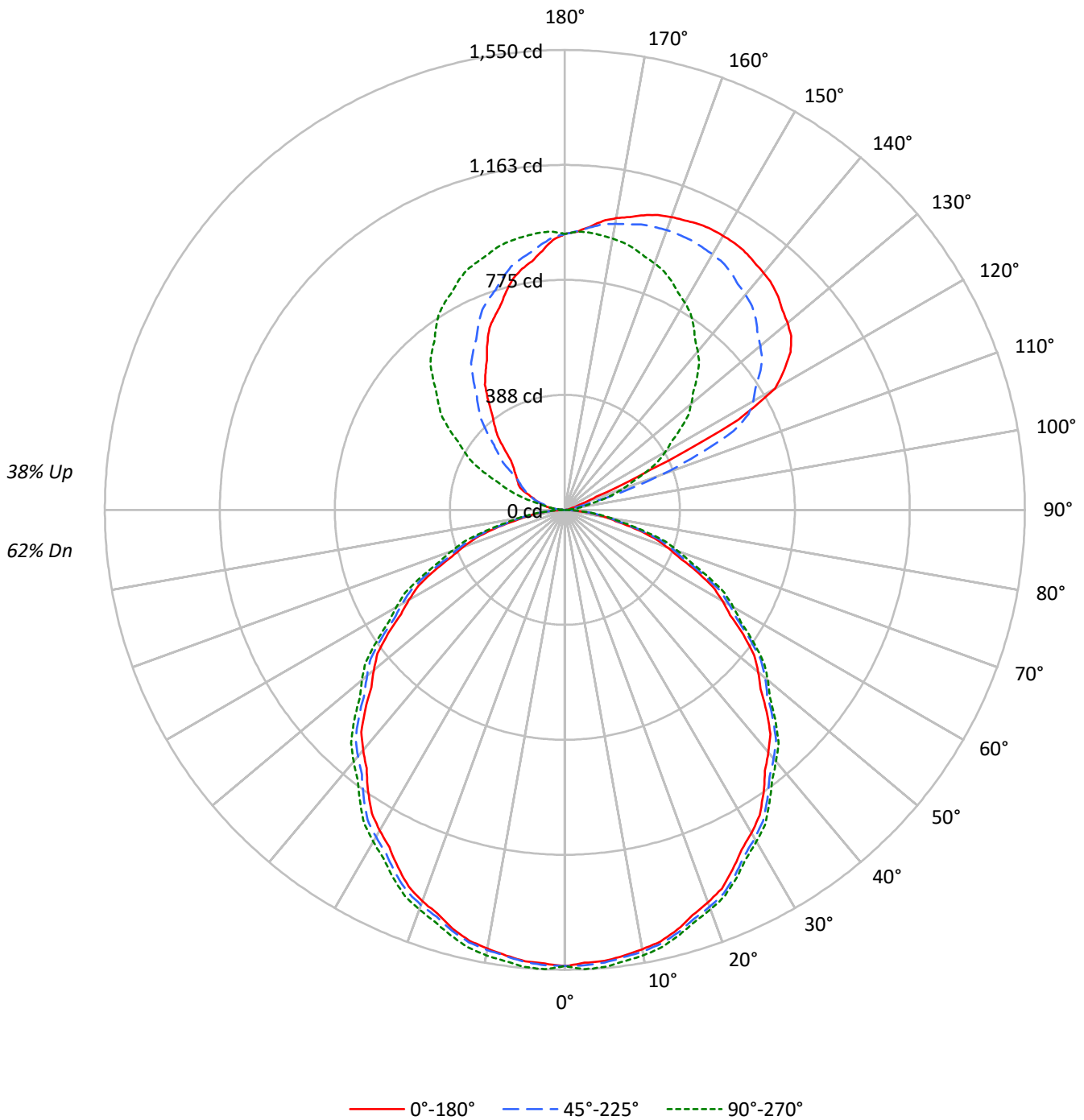
Lumens per Lamp: N/A  
Luminaire Lumens: 6798.6 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 67.4  
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	100	96	92	88	94	90	87	83	79	76	74	69	67	65	59	58	56	52
2	91	84	77	72	85	79	73	68	69	65	61	60	57	54	52	49	47	43
3	83	74	66	60	78	69	62	57	61	55	51	53	49	46	46	43	40	37
4	76	65	57	51	71	61	54	48	54	48	44	47	43	39	41	37	35	31
5	70	58	50	43	65	55	47	41	48	42	38	42	38	34	37	33	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	30	33	29	26	24
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	28	23	45	34	27	23	30	25	21	27	22	19	24	20	17	15

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.3	2.1
10°-20°	414.2	6.1
20°-30°	620.7	9.1
30°-40°	738.2	10.9
40°-50°	755.9	11.1
50°-60°	674.0	9.9
60°-70°	503.5	7.4
70°-80°	275.9	4.1
80°-90°	65.1	1.0
90°-100°	23.4	0.3
100°-110°	108.7	1.6
110°-120°	317.0	4.7
120°-130°	460.7	6.8
130°-140°	492.9	7.3
140°-150°	471.6	6.9
150°-160°	388.8	5.7
160°-170°	254.3	3.7
170°-180°	88.2	1.3
0°-30°	1180.2	17.4
0°-40°	1918.5	28.2
0°-60°	3348.4	49.3
0°-90°	4192.9	61.7
90°-120°	449.2	6.6
90°-150°	1874.4	27.6
90°-180°	2606.0	38.3
0°-180°	6798.6	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	1	4	7	1
95°	7	9	18	29	26	8
105°	29	84	121	77	83	35
115°	319	628	302	144	159	374
125°	928	802	476	220	201	821
135°	1016	910	629	371	284	784
145°	1060	976	756	539	450	664
155°	1064	1003	850	689	618	491
165°	1028	996	910	809	762	292
175°	957	955	939	898	876	93
180°	930	930	930	930	930	



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**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°	4.4	5.1	9.1	16.3	14.3	17.8	14.9	11.3	11.5
90°	1.7	1.7	1.7	0.9	0.9	1.7	3.5	6.1	7.0
92.5°	3.1	3.8	3.8	4.4	5.1	10.0	7.0	8.2	8.4
95°	7.0	7.0	8.7	20.9	17.5	26.0	28.8	27.1	26.2
97.5°	11.5	12.4	17.0	54.9	39.3	34.9	47.5	50.8	47.7
100°	15.7	16.6	25.3	86.7	56.8	44.8	52.4	62.1	63.8
102.5°	20.6	22.2	39.3	133.7	79.9	57.0	60.1	69.1	71.5
105°	28.8	33.1	83.9	221.5	120.6	75.3	76.9	79.6	83.0
107.5°	44.8	60.1	213.1	314.4	170.8	98.8	102.3	99.8	100.0
110°	62.9	95.4	348.8	367.8	207.2	117.4	116.3	114.4	111.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	114.0	199.8	485.8	415.2	245.6	137.4	127.4	135.4	130.1
115°	319.0	484.0	627.6	480.2	301.6	171.6	144.2	155.7	159.1
117.5°	658.0	732.7	698.2	537.9	355.0	211.6	160.3	168.5	174.1
120°	818.1	815.6	732.5	573.6	390.7	241.1	172.2	177.5	181.8
122.5°	876.9	852.4	761.1	605.8	425.0	272.7	188.3	185.2	190.2
125°	928.3	894.9	802.4	649.8	475.5	320.8	220.3	197.6	201.0
127.5°	961.6	925.1	837.7	690.2	524.4	371.8	262.6	217.2	213.1
130°	979.8	943.9	860.1	714.9	555.9	404.6	291.9	236.6	226.4
132.5°	995.2	961.4	881.1	738.8	586.7	438.1	323.4	261.0	246.0
135°	1016.5	984.1	909.9	773.8	629.3	486.6	370.6	305.4	284.1
137.5°	1032.8	1003.2	932.6	805.1	670.8	534.4	420.1	354.5	332.7
140°	1041.9	1013.7	946.6	824.8	696.6	565.0	453.6	386.7	366.2
142.5°	1050.3	1022.8	958.5	842.5	721.1	594.3	487.9	419.6	399.1
145°	1060.2	1033.7	976.3	868.0	756.1	638.1	539.3	469.8	450.1
147.5°	1065.0	1040.5	989.1	890.8	787.4	678.6	587.0	520.3	500.5
150°	1066.4	1043.3	994.7	904.2	807.6	705.1	617.1	554.6	534.1
152.5°	1067.1	1043.3	998.9	915.6	825.8	728.7	646.5	587.5	568.3
155°	1063.7	1042.4	1003.4	929.1	850.5	762.4	688.8	635.1	618.0
157.5°	1056.0	1040.3	1004.1	940.5	871.1	794.0	729.0	679.8	663.8
160°	1049.8	1036.1	1003.4	946.9	883.7	812.7	753.4	708.5	693.1
162.5°	1041.4	1027.7	999.9	949.9	894.9	830.1	776.5	733.8	721.1
165°	1027.9	1015.1	995.6	954.3	909.9	856.1	809.4	772.4	762.2
167.5°	1010.8	1002.7	985.9	956.1	922.0	878.4	839.5	809.4	800.6
170°	998.2	992.2	979.0	955.6	928.3	891.5	858.3	831.1	825.1
172.5°	982.1	978.9	969.9	953.0	933.2	903.2	875.1	851.4	845.4
175°	957.1	958.8	955.4	949.0	938.7	918.2	898.5	881.8	875.8
177.5°	938.4	938.4	939.1	939.8	938.4	929.5	919.5	909.7	910.4
180°	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0

(END OF REPORT)