

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: P511738

Luminaire Tested: **SQW-F-025U-100D-835-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511738  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-15,  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-025U-100D-835-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

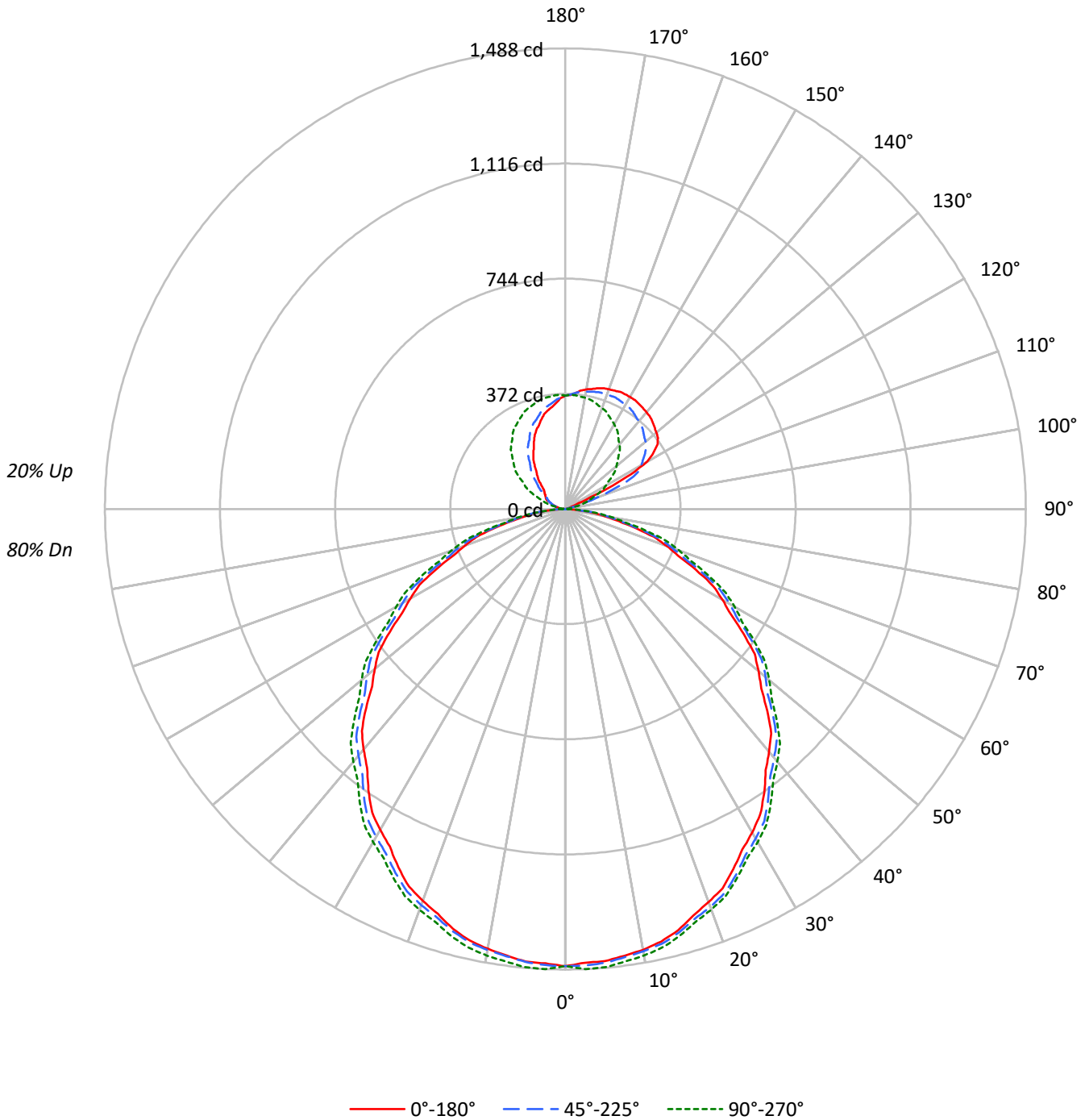
Lumens per Lamp: N/A  
Luminaire Lumens: 5037.4 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 44  
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80
1	104	100	96	92	100	96	92	89	88	85	82	81	78	76	74	72	71	67
2	95	87	81	75	91	84	78	73	77	72	68	71	67	64	65	62	59	56
3	87	77	69	63	83	74	66	61	68	62	57	62	58	54	57	54	50	47
4	79	68	59	53	76	65	57	52	60	54	49	56	50	46	51	47	43	41
5	73	61	52	46	69	58	50	44	54	47	42	50	44	40	46	41	38	35
6	67	54	46	40	64	52	44	39	49	42	37	45	39	35	42	37	33	31
7	62	49	41	35	59	48	40	34	44	37	33	41	35	31	38	33	29	27
8	58	45	37	31	55	43	36	30	40	34	29	38	32	28	35	30	26	24
9	54	41	33	28	52	40	32	27	37	31	26	35	29	25	32	27	24	22
10	51	38	30	25	48	37	29	25	34	28	24	32	27	23	30	25	22	20

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

	0°	90°	180°
0°	47695	47695	47695
5°	47521	48169	47586
10°	47414	48037	47316
15°	47104	47739	46937
20°	46461	47354	46289
25°	45749	46854	45500
30°	45006	46348	44633
35°	44152	45650	43718
40°	43166	44936	42744
45°	42106	44115	41603
50°	40943	43204	40391
55°	39578	41999	39015
60°	37846	40752	37329
65°	35607	39121	35148
70°	32762	36916	32384
75°	28447	33437	29071
80°	22873	27708	24175
85°	12597	18896	16302



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.6	2.8
10°-20°	398.1	7.9
20°-30°	596.7	11.8
30°-40°	709.4	14.1
40°-50°	726.3	14.4
50°-60°	647.4	12.9
60°-70°	482.6	9.6
70°-80°	263.7	5.2
80°-90°	62.0	1.2
90°-100°	9.0	0.2
100°-110°	41.0	0.8
110°-120°	119.0	2.4
120°-130°	179.6	3.6
130°-140°	192.3	3.8
140°-150°	183.8	3.6
150°-160°	152.2	3.0
160°-170°	99.9	2.0
170°-180°	34.7	0.7
0°-30°	1134.4	22.5
0°-40°	1843.8	36.6
0°-60°	3217.5	63.9
0°-90°	4025.8	79.9
90°-120°	169.0	3.4
90°-150°	724.8	14.4
90°-180°	1012.0	20.1
0°-180°	5037.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1477	1477	1477	1477	1477	
5°	1466	1472	1486	1469	1468	139
15°	1409	1417	1428	1411	1404	397
25°	1284	1305	1315	1298	1277	592
35°	1120	1143	1158	1135	1109	700
45°	922	950	966	939	911	711
55°	703	731	746	724	693	628
65°	466	489	512	485	460	461
75°	228	246	268	248	233	244
85°	34	47	51	52	44	50
90°	1	1	0	1	2	1
95°	3	3	7	12	10	3
105°	11	27	47	31	33	13
115°	94	238	117	58	64	126
125°	364	315	184	87	80	319
135°	398	356	244	144	110	308
145°	414	382	296	209	173	260
155°	417	394	333	270	240	193
165°	403	391	358	319	299	114
175°	376	376	369	353	344	36
180°	366	366	366	366	366	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0
2.5°	1467.4	1474.4	1476.2	1474.9	1488.2	1475.7	1475.4	1474.5	1469.8
5°	1466.0	1468.0	1472.0	1469.4	1486.0	1469.4	1469.0	1467.0	1468.0
7.5°	1456.4	1458.4	1460.6	1458.0	1474.6	1457.6	1457.4	1454.0	1455.0
10°	1446.0	1448.0	1451.0	1448.4	1465.0	1446.4	1447.0	1442.0	1443.0
12.5°	1431.6	1433.6	1439.0	1435.6	1451.4	1433.6	1434.2	1428.4	1428.6
15°	1409.0	1411.9	1417.0	1411.4	1428.0	1410.4	1411.0	1405.0	1404.0
17.5°	1376.8	1382.7	1388.8	1383.9	1398.8	1382.0	1382.8	1373.5	1371.0
20°	1352.0	1357.9	1368.0	1362.4	1378.0	1360.4	1362.0	1348.0	1347.0
22.5°	1327.2	1331.5	1344.0	1338.4	1354.0	1336.4	1337.2	1320.8	1320.6
25°	1284.0	1289.9	1305.0	1300.3	1315.0	1297.4	1298.0	1279.9	1277.0
27.5°	1239.8	1245.9	1261.2	1256.7	1271.8	1253.8	1255.0	1234.9	1229.0
30°	1207.0	1213.8	1230.0	1226.4	1243.0	1223.4	1223.0	1202.9	1197.0
32.5°	1171.8	1180.2	1196.4	1194.3	1209.4	1190.6	1188.6	1168.5	1162.6
35°	1120.0	1128.8	1143.0	1144.3	1158.0	1140.4	1135.0	1115.8	1109.0
37.5°	1064.0	1072.2	1087.6	1090.3	1103.6	1085.2	1077.6	1060.2	1052.4
40°	1024.0	1033.8	1050.0	1054.3	1066.0	1048.4	1040.0	1021.8	1014.0
42.5°	984.8	994.6	1011.6	1018.2	1026.8	1010.0	1000.0	982.6	973.2
45°	922.0	931.8	950.0	959.2	966.0	950.4	939.0	920.8	911.0
47.5°	858.2	869.0	887.4	898.7	903.2	888.9	878.4	858.2	847.2
50°	815.0	825.8	845.0	857.1	860.0	847.3	836.0	815.7	804.0
52.5°	771.0	780.2	799.4	813.0	814.4	804.0	792.0	771.8	760.8
55°	703.0	712.8	731.0	747.0	746.0	739.2	724.0	703.8	693.0
57.5°	633.2	641.0	660.0	677.0	677.4	669.6	655.0	635.0	624.4
60°	586.0	593.8	612.0	629.0	631.0	623.2	607.0	587.8	578.0
62.5°	538.8	545.8	563.2	581.8	583.8	576.0	559.0	540.6	530.8
65°	466.0	471.9	489.0	508.1	512.0	503.2	485.0	468.8	460.0
67.5°	394.2	399.9	415.8	434.7	439.8	429.8	413.4	398.0	389.4
70°	347.0	351.9	367.0	385.1	391.0	380.2	367.0	350.8	343.0
72.5°	299.0	303.9	319.0	336.3	341.4	331.4	319.0	304.5	301.4
75°	228.0	232.9	246.0	264.1	268.0	259.2	248.0	235.0	233.0
77.5°	164.6	167.7	179.6	192.1	194.6	189.3	182.6	171.0	170.0
80°	123.0	126.9	138.0	148.0	149.0	146.1	141.0	131.0	130.0
82.5°	86.2	89.3	98.8	108.0	106.6	106.8	103.4	94.2	94.0
85°	34.0	36.9	47.0	54.9	51.0	53.9	52.0	45.0	44.0
87.5°	3.4	4.2	8.2	16.0	14.4	16.7	14.6	10.6	10.8
90°	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	2.0
92.5°	1.0	1.8	1.0	1.6	1.6	4.0	3.4	2.6	2.8
95°	3.0	3.0	3.0	7.1	7.1	10.0	12.1	11.1	10.1
97.5°	4.4	4.4	5.8	19.9	15.7	13.4	18.8	19.4	19.4
100°	6.0	6.0	9.1	31.1	22.2	18.2	21.2	24.2	24.2
102.5°	7.7	8.5	13.9	48.6	31.1	22.4	24.4	26.6	27.4
105°	11.1	12.1	27.2	82.9	47.4	30.6	31.3	32.3	33.3
107.5°	16.5	20.5	68.4	118.4	67.1	39.5	41.7	39.9	39.9
110°	22.2	30.1	115.9	140.8	81.7	46.2	47.4	46.4	46.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	35.1	58.7	173.2	159.3	96.2	54.4	52.2	54.4	52.8
115°	93.8	152.9	237.9	185.0	117.0	67.7	58.5	62.5	63.5
117.5°	223.4	267.4	269.8	206.5	138.3	82.5	63.5	68.2	70.2
120°	306.5	313.4	284.3	220.2	151.2	93.1	67.6	70.6	72.6
122.5°	338.0	331.4	297.2	233.1	164.1	105.2	74.0	73.8	75.8
125°	364.0	350.2	314.6	252.5	184.5	124.4	86.7	78.7	79.6
127.5°	376.9	363.1	328.9	268.5	203.7	144.7	102.6	85.5	84.7
130°	384.1	370.3	337.8	279.8	215.8	157.6	113.9	92.7	88.7
132.5°	390.6	377.6	345.8	288.8	227.9	169.7	126.0	101.5	96.0
135°	398.2	385.4	355.9	302.2	244.0	188.8	144.2	117.8	109.9
137.5°	405.1	393.3	365.2	314.2	260.9	205.9	162.5	136.9	128.2
140°	408.3	396.5	370.0	321.5	272.2	218.0	175.4	149.0	141.2
142.5°	411.6	400.5	374.9	328.8	281.9	230.0	188.3	161.9	154.1
145°	414.4	404.5	382.1	338.8	296.4	247.1	208.7	181.3	173.4
147.5°	417.4	407.0	386.8	347.4	308.3	264.0	227.1	200.7	193.0
150°	417.4	408.5	389.2	353.0	315.6	275.2	240.0	213.6	206.7
152.5°	418.2	408.5	391.6	357.9	323.6	285.6	252.1	226.5	220.4
155°	417.4	408.5	394.2	364.3	332.7	299.2	270.2	245.9	240.0
157.5°	413.8	408.1	394.2	368.0	342.0	311.2	285.9	266.8	258.5
160°	411.4	406.4	394.2	370.5	346.8	319.2	296.4	278.1	272.2
162.5°	408.9	404.0	393.4	373.0	351.7	326.4	305.3	287.8	283.5
165°	403.3	399.3	391.2	374.7	357.9	336.2	318.6	303.4	299.4
167.5°	397.0	394.3	387.6	375.8	362.6	345.6	330.3	318.5	314.0
170°	392.2	390.2	385.1	375.8	365.0	351.2	336.7	326.6	323.6
172.5°	385.7	384.6	381.9	374.3	366.6	355.2	344.0	334.7	331.7
175°	376.1	376.1	376.1	373.0	369.0	361.1	352.9	345.8	343.8
177.5°	368.4	369.2	370.0	369.2	369.2	365.3	361.1	357.1	357.9
180°	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0

(END OF REPORT)