

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: P511742

Luminaire Tested: **SQW-F-025U-100D-940-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511742  
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-940-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

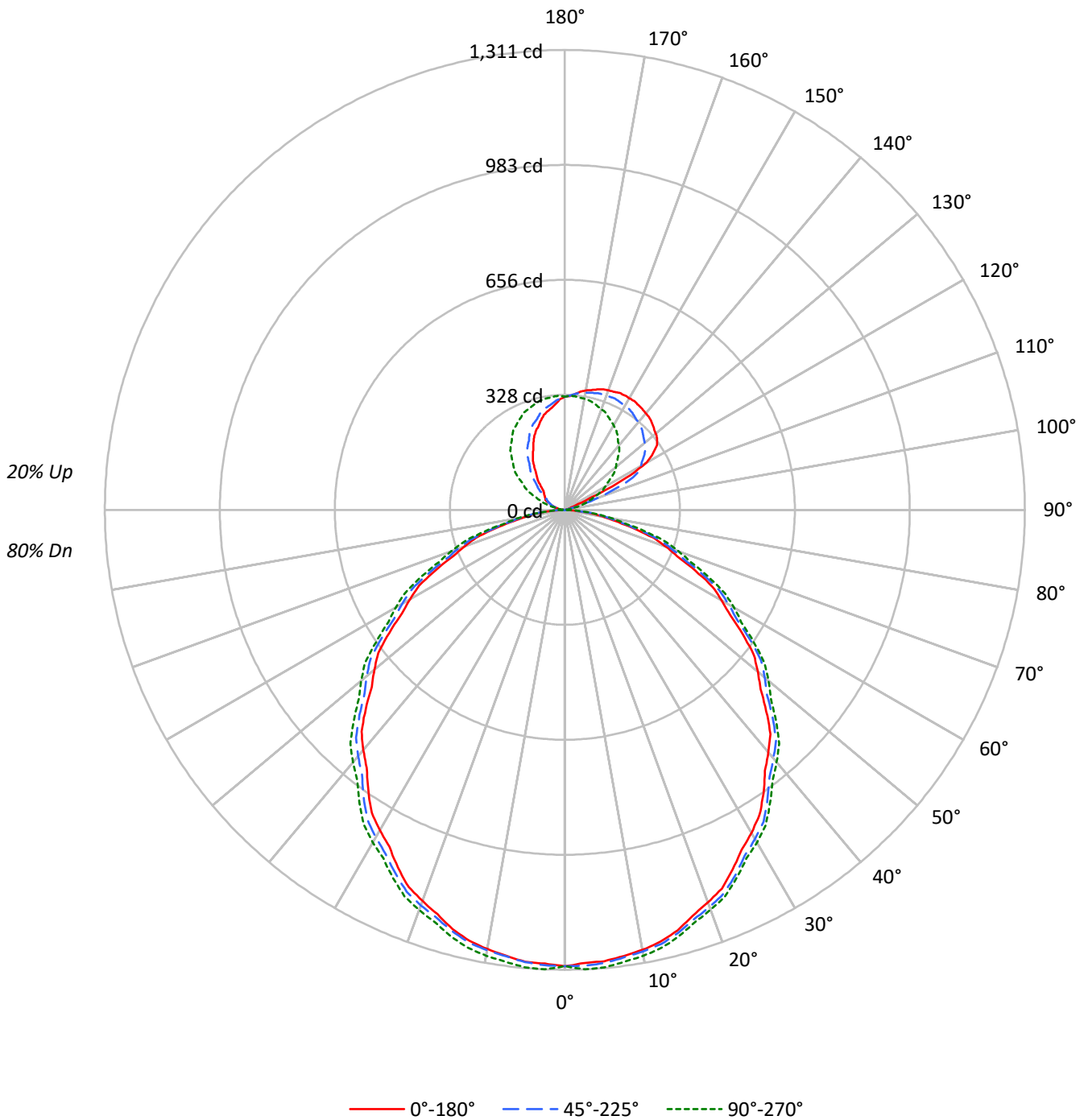
Lumens per Lamp: N/A  
Luminaire Lumens: 4437.7 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 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°	42015	42015	42015
5°	41864	42435	41919
10°	41768	42319	41683
15°	41495	42056	41347
20°	40928	41715	40777
25°	40301	41274	40084
30°	39648	40830	39320
35°	38897	40213	38514
40°	38027	39587	37656
45°	37091	38863	36648
50°	36070	38060	35583
55°	34866	37000	34371
60°	33338	35902	32886
65°	31366	34460	30961
70°	28863	32517	28532
75°	25066	29457	25615
80°	20158	24417	21293
85°	11115	16636	14376



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.0	2.8
10°-20°	350.7	7.9
20°-30°	525.6	11.8
30°-40°	625.0	14.1
40°-50°	639.8	14.4
50°-60°	570.3	12.9
60°-70°	425.1	9.6
70°-80°	232.3	5.2
80°-90°	54.6	1.2
90°-100°	7.9	0.2
100°-110°	36.2	0.8
110°-120°	104.9	2.4
120°-130°	158.2	3.6
130°-140°	169.4	3.8
140°-150°	161.9	3.6
150°-160°	134.1	3.0
160°-170°	88.0	2.0
170°-180°	30.5	0.7
0°-30°	999.3	22.5
0°-40°	1624.3	36.6
0°-60°	2834.4	63.9
0°-90°	3546.5	79.9
90°-120°	148.9	3.4
90°-150°	638.5	14.4
90°-180°	891.0	20.1
0°-180°	4437.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1301	1301	1301	1301	1301	
5°	1292	1297	1309	1294	1293	123
15°	1241	1248	1258	1243	1237	349
25°	1131	1150	1158	1144	1125	521
35°	987	1007	1020	1000	977	617
45°	812	837	851	827	802	626
55°	619	644	657	638	610	553
65°	410	431	451	427	405	406
75°	201	217	236	218	205	215
85°	30	41	45	46	39	44
90°	1	1	0	1	2	1
95°	3	3	6	11	9	3
105°	10	24	42	28	29	11
115°	83	210	103	52	56	111
125°	321	277	162	76	70	281
135°	351	314	215	127	97	271
145°	365	337	261	184	153	229
155°	368	347	293	238	211	170
165°	355	345	315	281	264	101
175°	331	331	325	311	303	32
180°	322	322	322	322	322	



TEST NUMBER: P511742

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1292.7	1298.9	1300.4	1299.3	1311.0	1300.0	1299.7	1298.9	1294.8
5°	1291.5	1293.2	1296.7	1294.4	1309.1	1294.4	1294.1	1292.4	1293.2
7.5°	1283.0	1284.7	1286.7	1284.4	1299.0	1284.0	1283.9	1280.9	1281.8
10°	1273.8	1275.6	1278.2	1275.9	1290.6	1274.2	1274.7	1270.3	1271.2
12.5°	1261.2	1262.9	1267.7	1264.6	1278.6	1262.9	1263.4	1258.3	1258.5
15°	1241.2	1243.8	1248.3	1243.3	1258.0	1242.5	1243.0	1237.7	1236.8
17.5°	1212.9	1218.0	1223.4	1219.2	1232.3	1217.4	1218.2	1210.0	1207.8
20°	1191.0	1196.2	1205.1	1200.2	1213.9	1198.4	1199.8	1187.5	1186.6
22.5°	1169.2	1173.0	1184.0	1179.0	1192.8	1177.3	1178.0	1163.5	1163.4
25°	1131.1	1136.3	1149.6	1145.5	1158.4	1142.9	1143.5	1127.5	1125.0
27.5°	1092.2	1097.5	1111.0	1107.1	1120.4	1104.5	1105.6	1087.8	1082.7
30°	1063.3	1069.3	1083.6	1080.4	1095.0	1077.8	1077.4	1059.7	1054.5
32.5°	1032.3	1039.7	1054.0	1052.1	1065.4	1048.9	1047.1	1029.3	1024.2
35°	986.7	994.4	1006.9	1008.1	1020.1	1004.6	999.9	983.0	977.0
37.5°	937.3	944.6	958.1	960.5	972.2	956.0	949.3	934.0	927.1
40°	902.1	910.7	925.0	928.7	939.1	923.6	916.2	900.2	893.3
42.5°	867.5	876.2	891.2	897.0	904.5	889.7	880.9	865.6	857.3
45°	812.2	820.8	836.9	845.0	851.0	837.2	827.2	811.1	802.5
47.5°	756.0	765.5	781.7	791.7	795.7	783.1	773.8	756.0	746.3
50°	718.0	727.4	744.4	755.0	757.6	746.4	736.5	718.6	708.3
52.5°	679.2	687.3	704.2	716.2	717.4	708.3	697.7	679.9	670.2
55°	619.3	627.9	644.0	658.0	657.2	651.2	637.8	620.0	610.5
57.5°	557.8	564.7	581.4	596.4	596.7	589.9	577.0	559.4	550.1
60°	516.2	523.1	539.1	554.1	555.9	549.0	534.7	517.8	509.2
62.5°	474.6	480.9	496.1	512.6	514.3	507.4	492.4	476.2	467.6
65°	410.5	415.7	430.8	447.6	451.0	443.3	427.3	413.0	405.2
67.5°	347.3	352.3	366.3	383.0	387.4	378.7	364.2	350.6	343.0
70°	305.7	310.0	323.3	339.3	344.4	335.0	323.3	309.1	302.2
72.5°	263.4	267.7	281.0	296.3	300.8	292.0	281.0	268.3	265.5
75°	200.9	205.2	216.7	232.6	236.1	228.3	218.5	207.0	205.3
77.5°	145.0	147.8	158.2	169.2	171.4	166.8	160.9	150.6	149.8
80°	108.4	111.8	121.6	130.4	131.3	128.7	124.2	115.4	114.5
82.5°	75.9	78.7	87.0	95.1	93.9	94.1	91.1	83.0	82.8
85°	30.0	32.5	41.4	48.4	44.9	47.5	45.8	39.6	38.8
87.5°	3.0	3.7	7.2	14.1	12.7	14.8	12.9	9.3	9.5
90°	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	1.8
92.5°	0.9	1.6	0.9	1.4	1.4	3.5	3.0	2.3	2.5
95°	2.7	2.7	2.7	6.2	6.2	8.8	10.7	9.8	8.9
97.5°	3.9	3.9	5.2	17.5	13.9	11.8	16.5	17.1	17.1
100°	5.3	5.3	8.0	27.4	19.5	16.1	18.7	21.3	21.3
102.5°	6.8	7.4	12.3	42.8	27.4	19.7	21.5	23.5	24.2
105°	9.8	10.6	24.0	73.0	41.7	27.0	27.5	28.4	29.3
107.5°	14.6	18.0	60.2	104.3	59.2	34.8	36.8	35.2	35.2
110°	19.5	26.5	102.1	124.0	71.9	40.7	41.7	40.9	40.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	30.9	51.8	152.6	140.3	84.7	47.9	46.0	47.9	46.5
115°	82.6	134.7	209.6	163.0	103.0	59.6	51.5	55.1	56.0
117.5°	196.8	235.6	237.7	182.0	121.9	72.7	56.0	60.1	61.8
120°	270.0	276.1	250.5	194.0	133.2	82.0	59.5	62.2	63.9
122.5°	297.7	292.0	261.8	205.4	144.6	92.7	65.2	65.1	66.8
125°	320.6	308.5	277.1	222.5	162.5	109.6	76.4	69.3	70.2
127.5°	332.0	319.8	289.7	236.6	179.4	127.5	90.4	75.3	74.6
130°	338.4	326.2	297.5	246.5	190.1	138.8	100.4	81.6	78.2
132.5°	344.1	332.6	304.6	254.4	200.7	149.5	111.0	89.4	84.6
135°	350.8	339.5	313.5	266.2	214.9	166.3	127.0	103.8	96.8
137.5°	356.9	346.4	321.7	276.8	229.9	181.4	143.2	120.6	113.0
140°	359.7	349.3	326.0	283.2	239.8	192.0	154.5	131.3	124.3
142.5°	362.6	352.8	330.2	289.7	248.3	202.7	165.9	142.7	135.7
145°	365.0	356.4	336.6	298.5	261.1	217.7	183.9	159.7	152.8
147.5°	367.7	358.5	340.7	306.0	271.6	232.5	200.0	176.8	170.0
150°	367.7	359.9	342.8	311.0	278.0	242.4	211.4	188.2	182.1
152.5°	368.4	359.9	345.0	315.3	285.1	251.6	222.0	199.5	194.2
155°	367.7	359.9	347.3	320.9	293.1	263.6	238.0	216.6	211.4
157.5°	364.5	359.5	347.3	324.2	301.3	274.2	251.9	235.0	227.7
160°	362.4	358.0	347.3	326.4	305.5	281.2	261.1	245.0	239.8
162.5°	360.2	355.9	346.6	328.6	309.8	287.6	268.9	253.6	249.8
165°	355.3	351.8	344.6	330.1	315.3	296.2	280.7	267.3	263.8
167.5°	349.8	347.3	341.4	331.0	319.4	304.5	291.0	280.6	276.6
170°	345.5	343.8	339.3	331.1	321.5	309.4	296.7	287.7	285.1
172.5°	339.8	338.8	336.4	329.7	322.9	312.9	303.0	294.8	292.2
175°	331.3	331.3	331.3	328.5	325.1	318.1	310.9	304.6	302.9
177.5°	324.5	325.2	326.0	325.3	325.3	321.8	318.1	314.6	315.3
180°	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4

(END OF REPORT)