

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: P511832

Luminaire Tested: **SQW-F-0U-100D-940-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511832  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-0U-100D-940-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

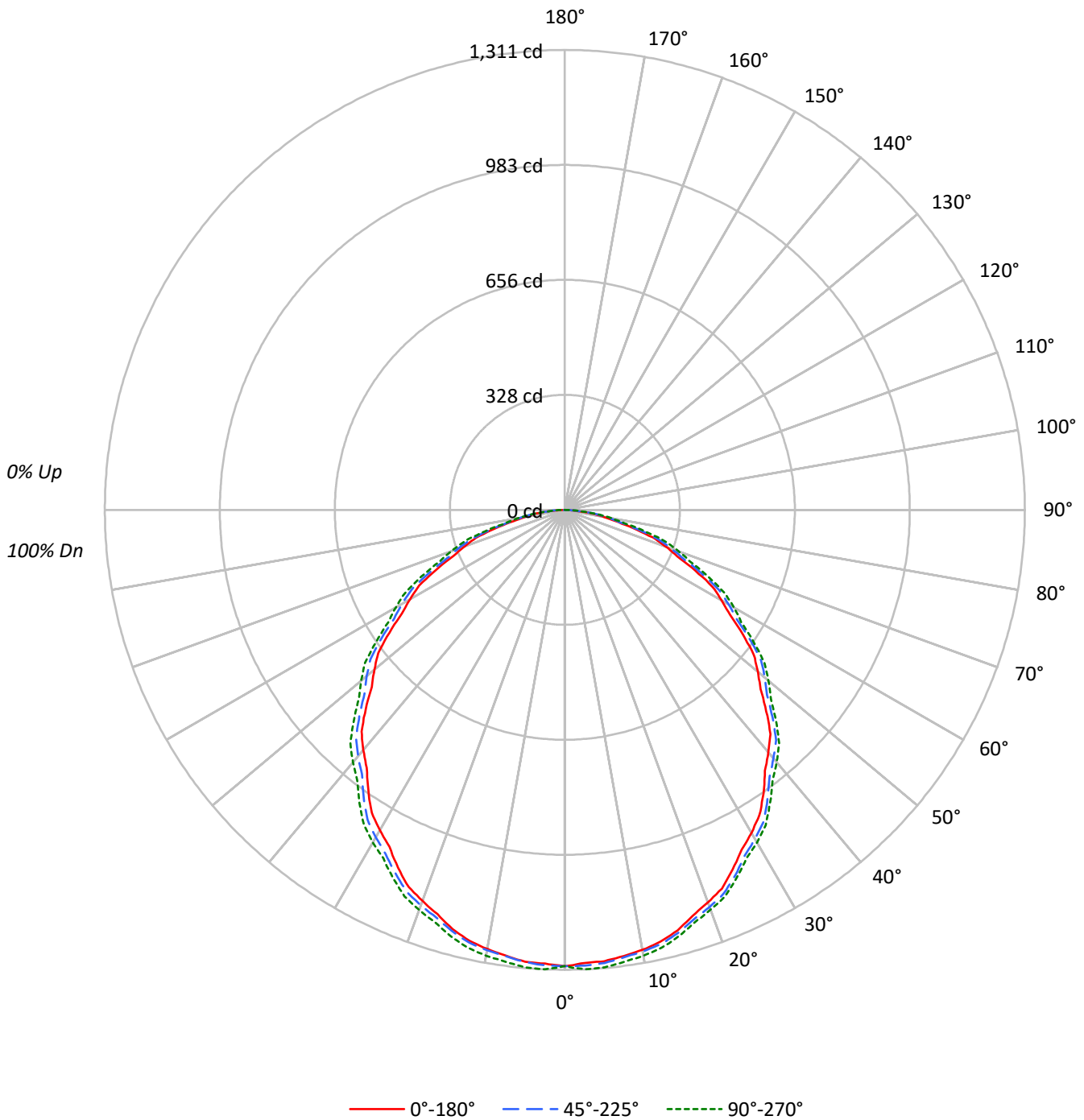
Lumens per Lamp: N/A  
Luminaire Lumens: 3546.4 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Direct

Input Watts (W): 36.6  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

**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	3.5
10°-20°	350.7	9.9
20°-30°	525.6	14.8
30°-40°	625.0	17.6
40°-50°	639.8	18.0
50°-60°	570.3	16.1
60°-70°	425.1	12.0
70°-80°	232.3	6.6
80°-90°	54.5	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	999.3	28.2
0°-40°	1624.3	45.8
0°-60°	2834.4	79.9
0°-90°	3546.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3546.4	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°	0	0	0	0	0	



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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°	2.8	3.5	7.0	14.1	12.7	14.8	12.7	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)