

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: P522433

Luminaire Tested: **SQW-F-0U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522433  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-0U-100D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

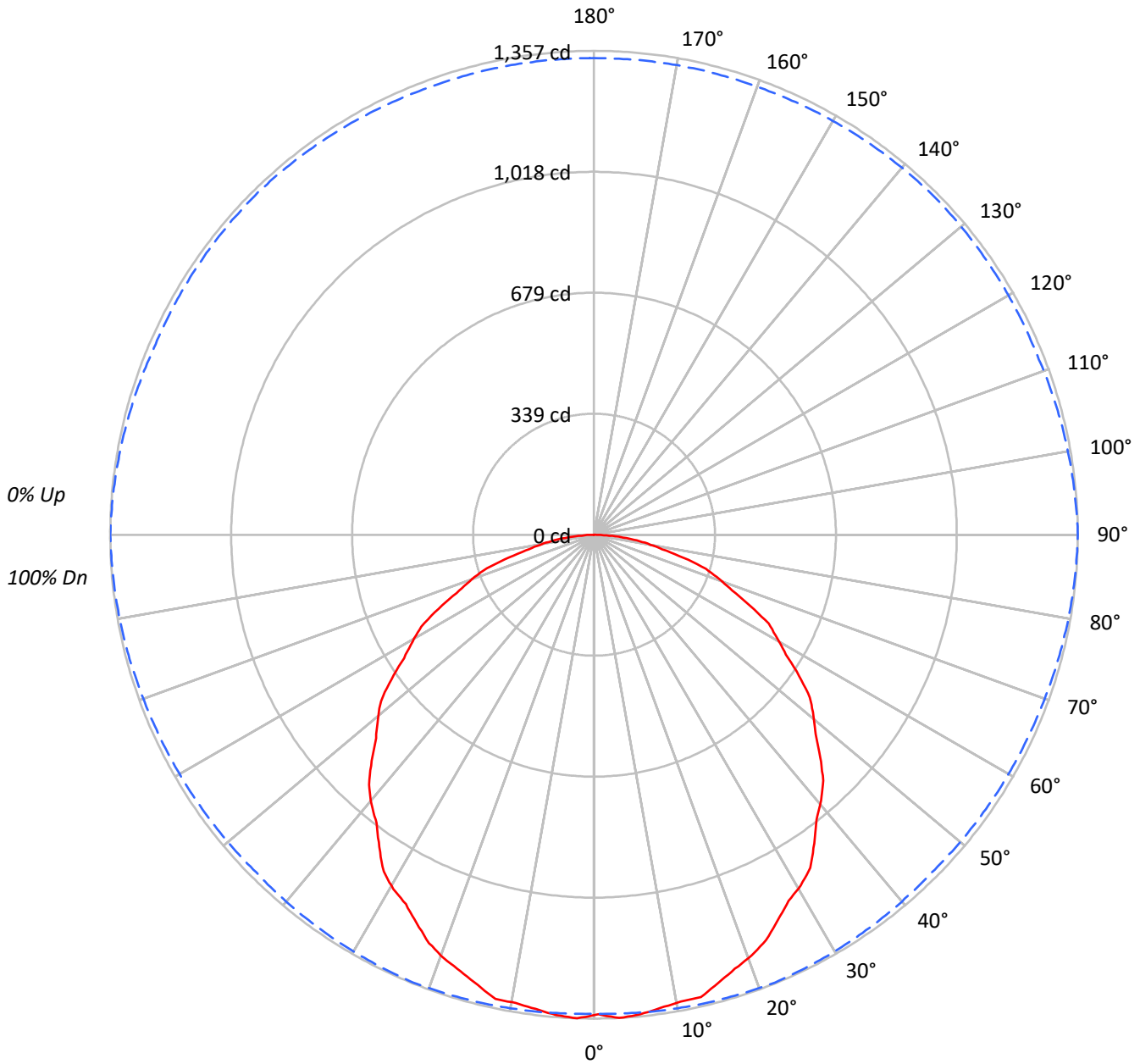
Lumens per Lamp: N/A  
Luminaire Lumens: 3761.3 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 44.5  
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



— Vertical Plane Through 90° Lateral      - - - Horizontal Cone Through 2.5° Vertical



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84				84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70				70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50				50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43				43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38				38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30				30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24				24

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

	0°	90°	180°
0°	21727	21727	21727
5°	21985	21906	21574
10°	21759	21838	21535
15°	21840	21809	21401
20°	21326	21661	20907
25°	21294	21346	20564
30°	21028	21302	20355
35°	20538	20962	20000
40°	20335	20687	19595
45°	20135	20315	19244
50°	19427	20042	18691
55°	19243	19654	18033
60°	18384	19078	17376
65°	17574	18468	16489
70°	16782	17608	15399
75°	15596	16207	13893
80°	13352	14161	11623
85°	9948	11041	7966



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.4	3.4
10°-20°	364.2	9.7
20°-30°	546.8	14.5
30°-40°	653.7	17.4
40°-50°	672.7	17.9
50°-60°	605.5	16.1
60°-70°	459.9	12.2
70°-80°	262.4	7.0
80°-90°	68.7	1.8
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°	1038.5	27.6
0°-40°	1692.1	45.0
0°-60°	2970.3	79.0
0°-90°	3761.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3761.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1346	1346	1346	1346	1346	
5°	1356	1346	1352	1328	1331	128
15°	1307	1299	1305	1286	1280	365
25°	1195	1202	1198	1186	1154	549
35°	1042	1067	1064	1040	1015	656
45°	882	889	890	870	843	674
55°	684	695	698	670	641	605
65°	460	473	483	450	432	457
75°	250	257	260	237	223	262
85°	54	62	60	54	43	66
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°	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7
2.5°	1344.1	1354.8	1340.2	1344.4	1357.4	1341.4	1345.7	1337.9	1337.1
5°	1356.5	1340.2	1345.7	1338.2	1351.6	1339.2	1328.1	1342.5	1331.1
7.5°	1333.4	1322.9	1344.3	1333.6	1340.6	1332.2	1333.4	1325.4	1325.2
10°	1327.2	1320.5	1327.2	1327.3	1332.0	1320.6	1319.3	1310.6	1313.5
12.5°	1309.2	1318.5	1308.4	1321.1	1331.3	1311.4	1303.7	1306.8	1311.9
15°	1306.6	1303.8	1298.8	1295.1	1304.7	1281.8	1286.1	1277.4	1280.3
17.5°	1267.0	1272.3	1274.8	1271.7	1280.3	1259.5	1254.5	1254.5	1255.9
20°	1241.2	1252.7	1260.7	1252.2	1260.7	1244.5	1241.2	1229.2	1216.8
22.5°	1227.2	1224.9	1241.2	1224.1	1235.7	1215.7	1224.8	1203.9	1210.6
25°	1195.3	1185.8	1202.2	1192.5	1198.2	1182.0	1185.6	1160.0	1154.3
27.5°	1152.9	1152.9	1162.9	1158.9	1162.9	1149.9	1146.3	1123.0	1120.7
30°	1127.9	1120.3	1138.7	1130.2	1142.6	1112.0	1114.3	1095.6	1091.8
32.5°	1094.3	1097.4	1109.8	1099.0	1113.7	1084.6	1090.0	1061.4	1066.0
35°	1042.0	1047.7	1067.4	1053.0	1063.5	1046.3	1040.0	1021.3	1014.7
37.5°	1008.6	999.8	1009.4	1010.2	1013.5	994.6	987.7	965.1	967.2
40°	964.8	962.9	976.6	980.5	981.5	963.3	958.0	930.6	929.7
42.5°	925.0	926.9	938.3	943.0	943.2	925.0	924.4	894.8	898.4
45°	881.8	879.0	888.7	887.7	889.7	870.6	870.1	841.8	842.8
47.5°	814.1	820.2	826.8	828.7	836.1	819.9	808.4	785.9	782.4
50°	773.4	784.9	786.1	795.0	797.9	777.8	768.6	749.9	744.1
52.5°	737.5	743.6	748.6	754.4	758.8	740.3	726.4	708.6	707.4
55°	683.6	679.8	695.3	693.5	698.2	683.9	669.9	650.2	640.6
57.5°	613.9	621.3	624.8	632.1	635.4	619.7	607.4	586.5	585.7
60°	569.3	579.8	581.1	593.7	590.8	577.5	564.5	545.7	538.1
62.5°	528.7	531.6	539.7	548.5	549.4	534.5	524.6	504.4	499.0
65°	460.0	465.7	472.7	484.4	483.4	472.9	450.2	439.3	431.6
67.5°	397.7	399.6	409.0	414.5	418.4	403.8	390.8	375.5	372.3
70°	355.5	353.6	365.2	369.2	373.0	361.6	348.6	334.8	326.2
72.5°	309.4	311.3	319.9	326.2	328.5	317.1	303.3	292.6	287.1
75°	250.0	248.1	256.8	260.7	259.8	251.2	237.3	230.3	222.7
77.5°	184.2	188.0	193.2	196.7	195.3	189.6	178.7	168.1	164.8
80°	143.6	147.4	153.3	155.2	152.3	146.6	139.6	129.8	125.0
82.5°	106.1	108.3	114.3	117.7	113.3	109.8	103.7	96.2	90.6
85°	53.7	55.6	61.5	63.4	59.6	59.6	53.7	46.8	43.0
87.5°	12.5	13.3	18.0	23.3	18.8	20.3	15.6	11.6	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)