

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: P522579

Luminaire Tested: **SQW-F-0U-100D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522579
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-100D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

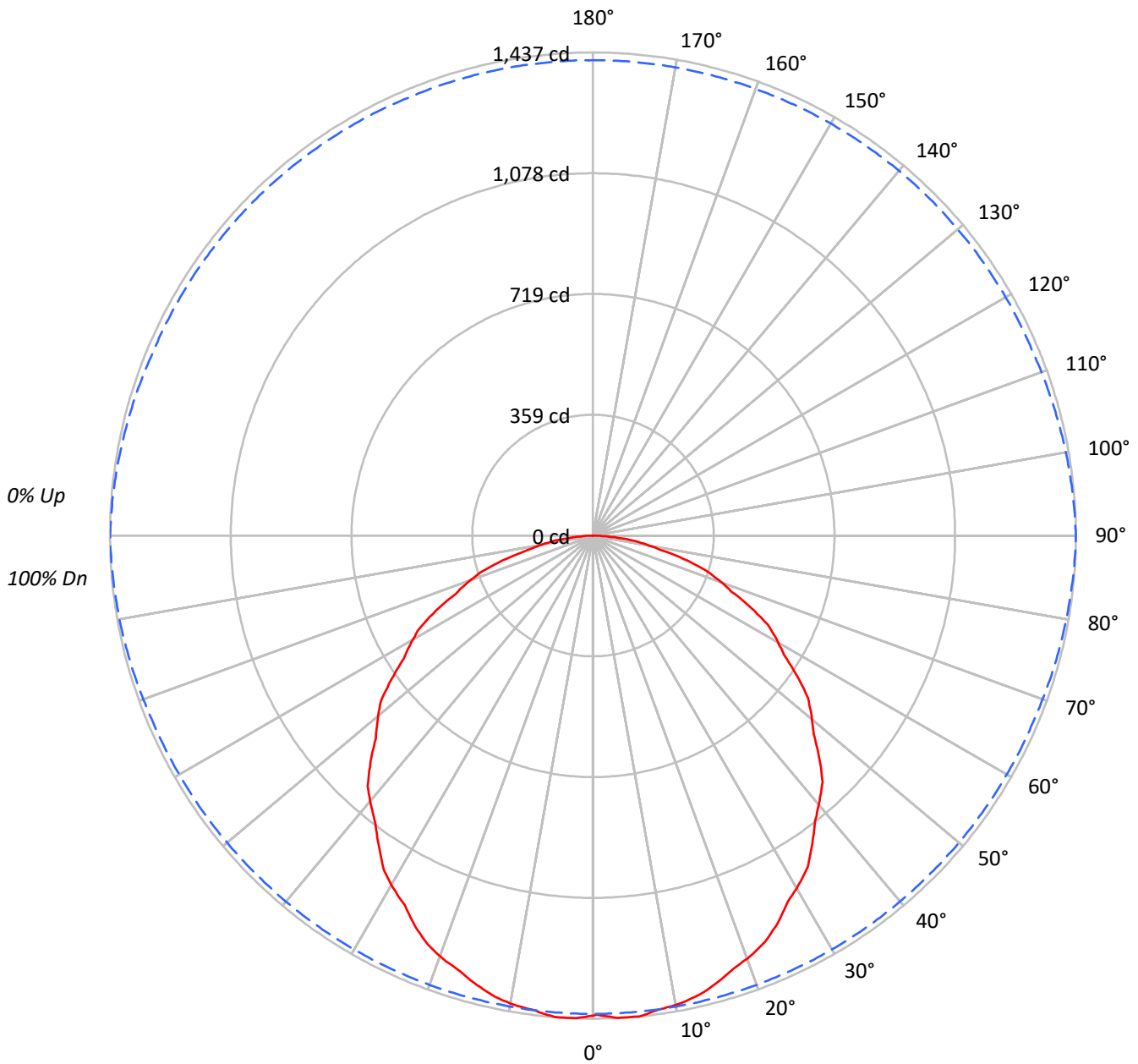
Lumens per Lamp: N/A
Luminaire Lumens: 3985.9 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 43.8
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 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	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	94	97	94	91	93	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23024	23024	23024
5°	23063	23290	22917
10°	23018	23215	22740
15°	23034	23084	22566
20°	22835	22955	22234
25°	22589	22750	21877
30°	22354	22484	21477
35°	22095	22155	21110
40°	21794	21878	20676
45°	21395	21555	20185
50°	20974	21175	19618
55°	20352	20746	18973
60°	19763	20279	18213
65°	19026	19713	17307
70°	18033	18741	16003
75°	16781	17467	14161
80°	15063	14877	11716
85°	11671	11856	7410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	3.4
10°-20°	385.5	9.7
20°-30°	579.8	14.5
30°-40°	692.7	17.4
40°-50°	712.2	17.9
50°-60°	641.1	16.1
60°-70°	488.2	12.2
70°-80°	278.4	7.0
80°-90°	73.1	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°	1100.2	27.6
0°-40°	1792.9	45.0
0°-60°	3146.2	78.9
0°-90°	3985.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3985.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1426	1426	1426	1426	1426	
5°	1423	1421	1437	1417	1414	135
15°	1378	1378	1381	1361	1350	388
25°	1268	1279	1277	1250	1228	584
35°	1121	1134	1124	1096	1071	700
45°	937	944	944	908	884	722
55°	723	739	737	700	674	649
65°	498	511	516	474	453	492
75°	269	277	280	247	227	285
85°	63	68	64	53	40	76
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°	1426.0	1426.0	1426.0	1426.0	1426.0	1426.0	1426.0	1426.0	1426.0
2.5°	1424.4	1427.5	1426.0	1423.9	1436.4	1422.3	1424.4	1422.6	1414.8
5°	1423.0	1422.0	1421.0	1422.3	1437.0	1418.4	1417.0	1414.0	1414.0
7.5°	1417.6	1416.6	1415.4	1411.3	1423.2	1404.8	1405.4	1402.3	1398.2
10°	1404.0	1406.9	1405.0	1403.3	1416.0	1394.5	1395.0	1391.9	1387.0
12.5°	1397.6	1397.4	1396.2	1390.5	1402.4	1380.9	1380.6	1376.7	1373.4
15°	1378.0	1377.0	1378.0	1368.3	1381.0	1361.4	1361.0	1352.9	1350.0
17.5°	1349.8	1351.4	1352.8	1342.9	1354.4	1331.1	1330.8	1321.4	1319.6
20°	1329.0	1329.0	1336.0	1325.2	1336.0	1313.5	1314.0	1295.0	1294.0
22.5°	1304.2	1305.8	1313.6	1302.8	1312.0	1288.7	1287.6	1271.7	1267.6
25°	1268.0	1269.0	1279.0	1266.2	1277.0	1252.6	1250.0	1229.0	1228.0
27.5°	1228.6	1228.2	1240.2	1225.4	1234.0	1212.3	1209.2	1187.0	1185.6
30°	1199.0	1197.0	1213.0	1198.2	1206.0	1183.5	1182.0	1154.9	1152.0
32.5°	1167.8	1166.6	1181.0	1168.5	1174.0	1153.1	1145.2	1123.0	1121.6
35°	1121.0	1117.1	1134.0	1121.1	1124.0	1104.4	1096.0	1073.0	1071.0
37.5°	1067.6	1065.8	1078.2	1070.1	1074.8	1054.3	1040.2	1018.2	1017.0
40°	1034.0	1029.1	1043.0	1034.1	1038.0	1017.5	1005.0	983.0	981.0
42.5°	993.2	993.0	1004.6	997.3	1002.0	980.7	965.0	943.7	941.0
45°	937.0	934.1	944.0	942.0	944.0	921.5	908.0	884.0	884.0
47.5°	875.0	873.0	886.4	881.1	883.8	864.2	846.8	825.3	821.8
50°	835.0	833.0	844.0	841.0	843.0	823.4	806.0	783.0	781.0
52.5°	793.4	791.4	803.2	799.4	800.6	783.4	764.4	743.7	740.2
55°	723.0	727.9	739.0	738.0	737.0	719.4	700.0	678.9	674.0
57.5°	662.4	664.4	672.2	673.7	670.4	658.9	635.2	614.7	609.6
60°	612.0	617.9	629.0	629.0	628.0	613.3	588.0	569.9	564.0
62.5°	565.6	572.2	581.8	584.2	583.2	565.4	544.0	526.6	519.2
65°	498.0	502.9	511.0	516.0	516.0	496.4	474.0	457.9	453.0
67.5°	427.6	433.5	441.0	446.9	444.2	426.0	406.6	392.0	383.8
70°	382.0	387.9	393.0	399.0	397.0	380.4	361.0	344.9	339.0
72.5°	335.6	342.2	346.6	351.7	349.0	332.4	315.4	300.8	293.4
75°	269.0	271.0	277.0	281.0	280.0	263.4	247.0	234.8	227.0
77.5°	203.6	204.4	209.4	211.1	206.4	195.8	182.6	173.0	165.2
80°	162.0	162.0	167.0	167.8	160.0	154.1	141.0	133.8	126.0
82.5°	119.6	120.4	127.0	127.1	120.8	114.2	105.0	97.1	92.4
85°	63.0	64.0	68.0	70.8	64.0	60.1	53.0	44.9	40.0
87.5°	16.8	17.6	23.2	26.3	20.0	20.0	12.8	8.8	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)