

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: P522578

Luminaire Tested: **SQW-F-0U-100D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522578
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 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

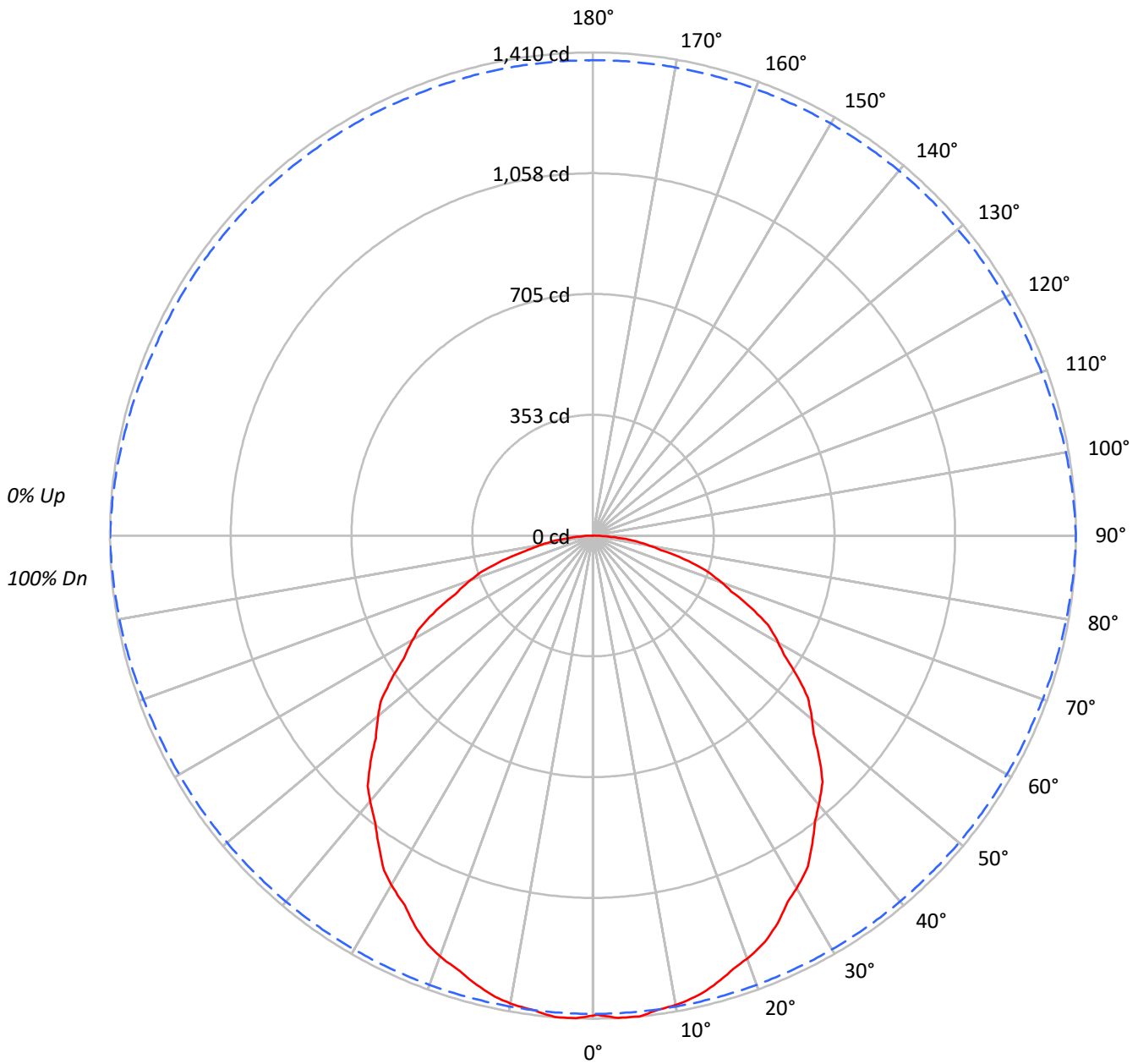
Lumens per Lamp: N/A
Luminaire Lumens: 3911.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

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°	22591	22591	22591
5°	22631	22853	22486
10°	22586	22779	22312
15°	22601	22651	22141
20°	22405	22524	21816
25°	22165	22322	21465
30°	21934	22061	21075
35°	21680	21739	20714
40°	21385	21467	20289
45°	20993	21151	19806
50°	20580	20778	19248
55°	19969	20358	18615
60°	19391	19898	17870
65°	18667	19343	16982
70°	17693	18387	15701
75°	16463	17137	13893
80°	14784	14598	11492
85°	11449	11634	7262



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	3.4
10°-20°	378.2	9.7
20°-30°	568.9	14.5
30°-40°	679.7	17.4
40°-50°	698.8	17.9
50°-60°	629.1	16.1
60°-70°	479.0	12.2
70°-80°	273.1	7.0
80°-90°	71.7	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°	1079.5	27.6
0°-40°	1759.2	45.0
0°-60°	3087.1	78.9
0°-90°	3911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3911.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1399	1399	1399	1399	1399	
5°	1396	1394	1410	1390	1387	133
15°	1352	1352	1355	1335	1325	381
25°	1244	1255	1253	1226	1205	573
35°	1100	1113	1103	1075	1051	687
45°	919	926	926	891	867	708
55°	709	725	723	687	661	637
65°	489	501	506	465	444	483
75°	264	272	275	242	223	279
85°	62	67	63	52	39	75
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°	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2
2.5°	1397.6	1400.7	1399.2	1397.1	1409.4	1395.6	1397.6	1395.9	1388.2
5°	1396.3	1395.3	1394.3	1395.6	1410.0	1391.8	1390.4	1387.4	1387.4
7.5°	1391.0	1390.0	1388.8	1384.8	1396.5	1378.4	1379.0	1376.0	1371.9
10°	1377.6	1380.5	1378.6	1376.9	1389.4	1368.3	1368.8	1365.7	1360.9
12.5°	1371.3	1371.1	1370.0	1364.3	1376.1	1354.9	1354.7	1350.9	1347.6
15°	1352.1	1351.1	1352.1	1342.6	1355.1	1335.9	1335.4	1327.5	1324.6
17.5°	1324.4	1326.0	1327.4	1317.6	1329.0	1306.1	1305.8	1296.5	1294.8
20°	1304.0	1304.0	1310.9	1300.3	1310.9	1288.8	1289.3	1270.6	1269.7
22.5°	1279.7	1281.2	1288.9	1278.3	1287.3	1264.5	1263.4	1247.8	1243.8
25°	1244.2	1245.1	1255.0	1242.5	1253.0	1229.0	1226.5	1205.9	1204.9
27.5°	1205.5	1205.1	1216.9	1202.4	1210.8	1189.5	1186.5	1164.7	1163.3
30°	1176.5	1174.6	1190.2	1175.7	1183.3	1161.3	1159.8	1133.2	1130.4
32.5°	1145.9	1144.7	1158.8	1146.6	1151.9	1131.4	1123.7	1101.9	1100.5
35°	1099.9	1096.1	1112.7	1100.0	1102.9	1083.7	1075.4	1052.8	1050.9
37.5°	1047.5	1045.8	1057.9	1050.0	1054.6	1034.5	1020.7	999.0	997.9
40°	1014.6	1009.8	1023.4	1014.7	1018.5	998.3	986.1	964.5	962.6
42.5°	974.5	974.3	985.7	978.6	983.2	962.3	946.9	926.0	923.3
45°	919.4	916.5	926.3	924.3	926.3	904.2	890.9	867.4	867.4
47.5°	858.6	856.6	869.7	864.5	867.2	848.0	830.9	809.8	806.4
50°	819.3	817.4	828.1	825.2	827.2	808.0	790.9	768.2	766.3
52.5°	778.5	776.6	788.1	784.4	785.6	768.7	750.0	729.7	726.3
55°	709.4	714.2	725.1	724.1	723.2	705.9	686.8	666.1	661.3
57.5°	650.0	651.9	659.6	661.1	657.8	646.5	623.3	603.1	598.1
60°	600.5	606.3	617.2	617.2	616.2	601.8	577.0	559.2	553.4
62.5°	555.0	561.5	570.9	573.2	572.2	554.8	533.8	516.7	509.4
65°	488.6	493.4	501.4	506.3	506.3	487.1	465.1	449.3	444.5
67.5°	419.6	425.3	432.7	438.5	435.9	418.0	399.0	384.6	376.6
70°	374.8	380.6	385.6	391.5	389.5	373.2	354.2	338.4	332.6
72.5°	329.3	335.8	340.1	345.1	342.4	326.1	309.5	295.2	287.9
75°	263.9	265.9	271.8	275.7	274.7	258.4	242.4	230.4	222.7
77.5°	199.8	200.5	205.5	207.1	202.5	192.2	179.2	169.8	162.1
80°	159.0	159.0	163.9	164.7	157.0	151.2	138.4	131.3	123.6
82.5°	117.4	118.1	124.6	124.7	118.5	112.0	103.0	95.3	90.7
85°	61.8	62.8	66.7	69.5	62.8	59.0	52.0	44.0	39.2
87.5°	16.5	17.3	22.8	25.8	19.6	19.6	12.6	8.6	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)