

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: P522603

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

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522603
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-100U-100D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

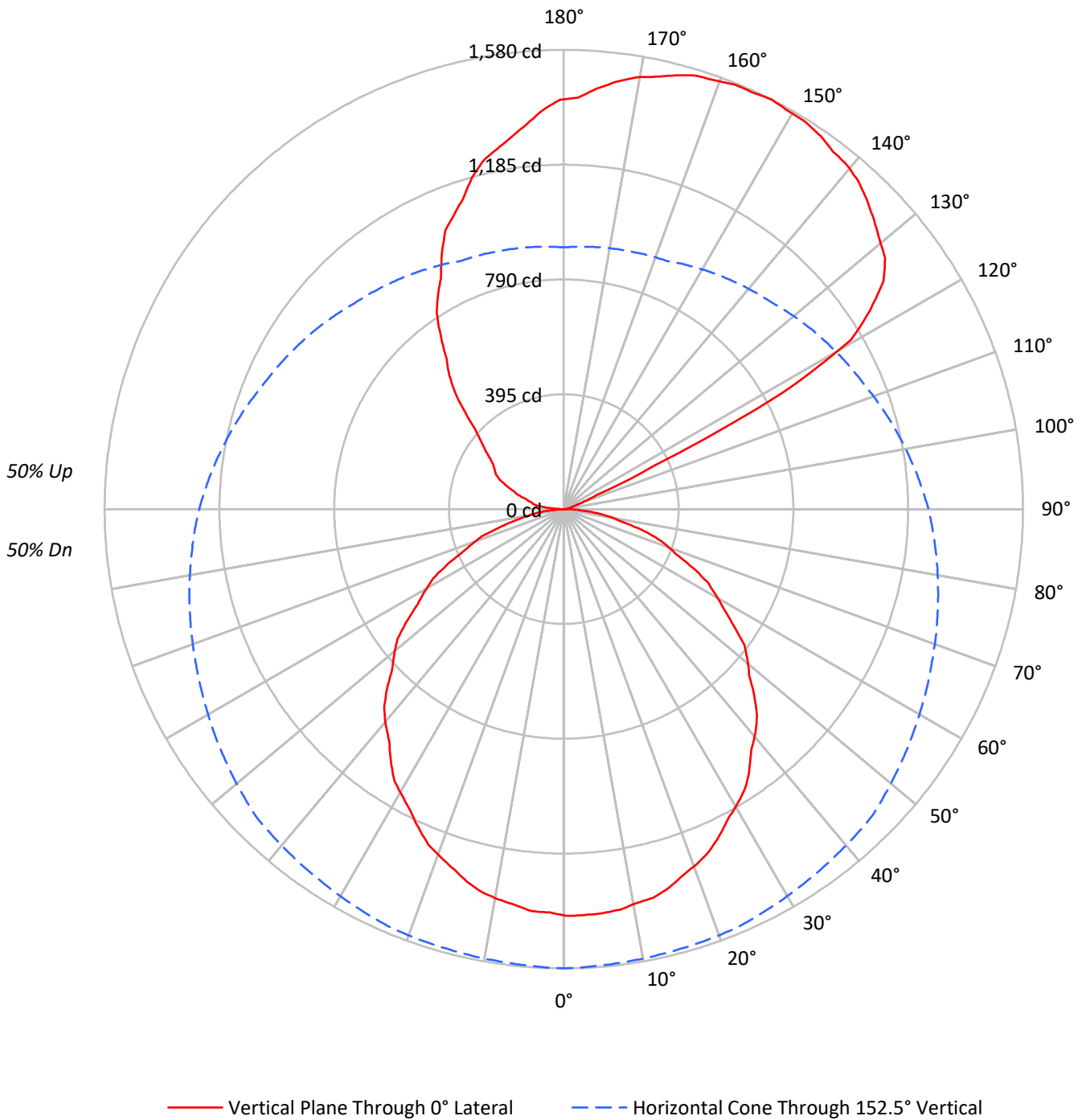
Lumens per Lamp: N/A
Luminaire Lumens: 7825.7 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78.7
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	49	48	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	39	35
3	81	71	64	58	74	66	60	54	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	58	51	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34	37	33	30	31	27	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	24	22	19
7	58	45	37	32	53	42	35	30	36	30	26	31	26	23	25	22	19	17
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	21	18	16	13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	17	14	12

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	1.7
10°-20°	378.2	4.8
20°-30°	568.9	7.3
30°-40°	679.7	8.7
40°-50°	698.8	8.9
50°-60°	629.1	8.0
60°-70°	479.0	6.1
70°-80°	273.1	3.5
80°-90°	71.7	0.9
90°-100°	35.6	0.5
100°-110°	157.8	2.0
110°-120°	453.4	5.8
120°-130°	690.6	8.8
130°-140°	749.7	9.6
140°-150°	716.9	9.2
150°-160°	590.6	7.5
160°-170°	386.5	4.9
170°-180°	133.8	1.7
0°-30°	1079.5	13.8
0°-40°	1759.2	22.5
0°-60°	3087.1	39.4
0°-90°	3911.0	50.0
90°-120°	646.8	8.3
90°-150°	2803.9	35.8
90°-180°	3915.0	50.0
0°-180°	7825.7	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	73
90°	0	0	0	0	0	2
95°	5	8	25	55	54	7
105°	35	96	181	125	133	41
115°	340	894	457	214	240	470
125°	1351	1176	728	361	307	1186
135°	1488	1348	966	598	476	1149
145°	1558	1450	1152	852	727	976
155°	1574	1509	1290	1068	974	728
165°	1541	1502	1383	1243	1183	437
175°	1450	1454	1425	1362	1330	140
180°	1408	1408	1408	1408	1408	



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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
92.5°	1.1	1.1	2.1	3.2	5.3	19.6	22.1	19.9	18.9
95°	5.3	5.3	7.9	24.9	24.9	40.3	55.1	53.8	53.8
97.5°	11.8	13.1	18.4	76.0	56.7	55.2	78.8	86.6	87.4
100°	17.1	18.3	28.9	123.8	84.0	71.2	84.0	102.5	106.3
102.5°	23.4	25.7	45.7	195.4	118.7	85.3	98.7	111.9	115.8
105°	35.4	39.3	95.8	327.4	181.1	113.1	124.7	131.3	132.6
107.5°	53.3	67.7	262.2	460.5	257.0	149.7	156.5	161.0	162.5
110°	72.2	103.0	455.5	540.9	313.7	177.7	173.3	185.0	182.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	121.5	211.9	668.6	606.8	370.4	210.7	189.0	208.2	209.7
115°	340.0	583.8	893.9	700.6	456.8	268.1	213.9	232.5	240.2
117.5°	853.2	1015.1	1012.5	787.4	539.7	335.7	243.9	252.7	261.5
120°	1147.2	1171.6	1072.4	846.1	593.3	384.1	269.1	265.3	273.0
122.5°	1256.4	1236.6	1117.5	897.6	647.9	434.6	301.6	278.9	285.6
125°	1350.6	1312.1	1176.0	971.0	728.5	509.0	361.0	308.4	307.1
127.5°	1402.9	1362.6	1233.3	1034.8	802.5	586.4	428.4	350.2	338.4
130°	1428.1	1390.8	1273.2	1073.9	851.8	638.8	477.8	386.8	368.8
132.5°	1458.5	1418.2	1301.5	1113.9	899.1	688.1	527.1	430.8	409.8
135°	1488.4	1451.2	1348.0	1166.2	966.0	760.7	598.5	503.4	476.5
137.5°	1515.2	1481.1	1390.5	1207.4	1026.4	832.1	674.1	581.5	548.6
140°	1533.1	1495.8	1408.4	1239.0	1063.2	877.1	724.5	632.1	606.4
142.5°	1539.4	1516.5	1427.3	1265.6	1104.1	920.1	774.9	679.4	655.8
145°	1558.0	1542.6	1450.4	1297.4	1152.4	984.3	851.8	752.8	727.2
147.5°	1570.1	1547.0	1471.6	1331.9	1199.7	1041.8	921.7	826.6	802.8
150°	1571.1	1553.2	1488.4	1353.1	1231.2	1083.6	964.7	875.0	853.2
152.5°	1579.5	1557.5	1496.8	1371.1	1254.3	1119.0	1007.8	924.3	900.4
155°	1573.8	1558.4	1509.4	1394.2	1290.2	1164.5	1068.4	994.5	973.9
157.5°	1573.8	1554.8	1511.0	1412.2	1324.9	1214.5	1125.1	1056.8	1041.4
160°	1563.3	1555.6	1512.1	1424.9	1342.7	1242.6	1162.9	1100.8	1080.2
162.5°	1559.1	1546.2	1514.2	1433.4	1358.5	1265.6	1195.5	1136.6	1121.2
165°	1540.9	1529.4	1501.6	1437.3	1383.4	1306.4	1243.0	1190.3	1182.6
167.5°	1520.2	1511.2	1492.9	1443.6	1400.0	1337.1	1283.7	1241.2	1230.7
170°	1505.5	1491.4	1484.5	1446.9	1408.4	1355.8	1309.9	1271.6	1260.1
172.5°	1480.3	1478.5	1472.9	1438.8	1415.7	1372.3	1334.1	1299.0	1291.6
175°	1450.4	1450.4	1454.3	1433.1	1425.4	1389.5	1362.4	1341.2	1329.6
177.5°	1415.7	1416.7	1425.2	1424.1	1425.2	1404.6	1396.8	1376.8	1374.8
180°	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4

(END OF REPORT)