

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: P522607

Luminaire Tested: **SQW-F-100U-100D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522607
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

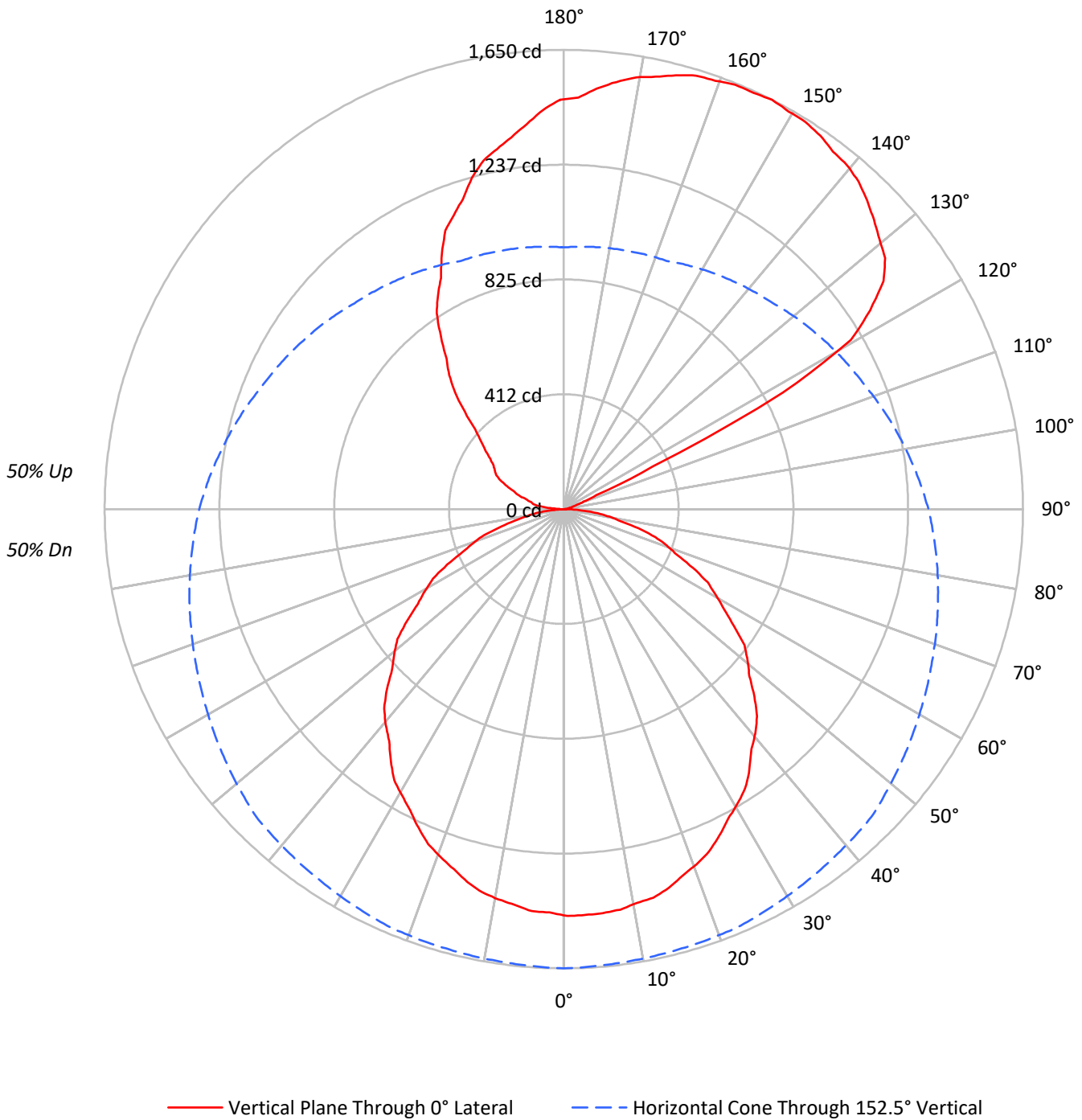
Lumens per Lamp: N/A
Luminaire Lumens: 8172.7 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78.5
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





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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°	23594	23594	23594
5°	23634	23866	23485
10°	23587	23789	23302
15°	23604	23654	23124
20°	23400	23522	22783
25°	23147	23313	22418
30°	22906	23040	22009
35°	22641	22702	21632
40°	22333	22419	21189
45°	21925	22087	20685
50°	21491	21697	20102
55°	20856	21258	19443
60°	20250	20780	18661
65°	19496	20202	17734
70°	18477	19204	16400
75°	17199	17898	14510
80°	15435	15249	12004
85°	11967	12153	7595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	1.7
10°-20°	395.0	4.8
20°-30°	594.1	7.3
30°-40°	709.8	8.7
40°-50°	729.8	8.9
50°-60°	657.0	8.0
60°-70°	500.3	6.1
70°-80°	285.2	3.5
80°-90°	74.9	0.9
90°-100°	37.1	0.5
100°-110°	164.8	2.0
110°-120°	473.5	5.8
120°-130°	721.2	8.8
130°-140°	782.9	9.6
140°-150°	748.7	9.2
150°-160°	616.8	7.5
160°-170°	403.6	4.9
170°-180°	139.7	1.7
0°-30°	1127.4	13.8
0°-40°	1837.2	22.5
0°-60°	3224.0	39.4
0°-90°	4084.4	50.0
90°-120°	675.4	8.3
90°-150°	2928.2	35.8
90°-180°	4088.0	50.0
0°-180°	8172.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1461	1461	1461	1461	1461	
5°	1458	1456	1472	1452	1449	139
15°	1412	1412	1415	1395	1383	398
25°	1299	1311	1309	1281	1258	599
35°	1149	1162	1152	1123	1098	718
45°	960	967	967	930	906	740
55°	741	757	755	717	691	665
65°	510	524	529	486	464	504
75°	276	284	287	253	233	292
85°	65	70	66	54	41	76
90°	0	0	0	0	0	3
95°	6	8	26	58	56	7
105°	37	100	189	130	138	43
115°	355	934	477	223	251	491
125°	1410	1228	761	377	321	1238
135°	1554	1408	1009	625	498	1200
145°	1627	1515	1204	890	759	1019
155°	1644	1576	1348	1116	1017	761
165°	1609	1568	1445	1298	1235	456
175°	1515	1519	1489	1423	1389	146
180°	1471	1471	1471	1471	1471	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3
2.5°	1459.6	1462.8	1461.3	1459.1	1471.9	1457.5	1459.6	1457.8	1449.8
5°	1458.2	1457.2	1456.1	1457.5	1472.5	1453.5	1452.0	1449.0	1449.0
7.5°	1452.6	1451.6	1450.4	1446.2	1458.4	1439.5	1440.1	1437.0	1432.8
10°	1438.7	1441.7	1439.7	1438.0	1451.0	1429.0	1429.5	1426.3	1421.3
12.5°	1432.2	1432.0	1430.7	1424.8	1437.1	1415.0	1414.7	1410.8	1407.4
15°	1412.1	1411.1	1412.1	1402.1	1415.1	1395.1	1394.6	1386.4	1383.4
17.5°	1383.2	1384.8	1386.2	1376.1	1387.9	1364.0	1363.7	1354.0	1352.2
20°	1361.9	1361.9	1369.0	1358.0	1369.0	1346.0	1346.5	1327.0	1326.0
22.5°	1336.4	1338.0	1346.1	1335.0	1344.4	1320.6	1319.4	1303.1	1298.9
25°	1299.3	1300.4	1310.6	1297.5	1308.6	1283.5	1280.9	1259.4	1258.4
27.5°	1259.0	1258.6	1270.9	1255.7	1264.5	1242.3	1239.1	1216.3	1214.9
30°	1228.6	1226.6	1243.0	1227.8	1235.8	1212.8	1211.2	1183.5	1180.5
32.5°	1196.7	1195.5	1210.2	1197.4	1203.0	1181.6	1173.5	1150.7	1149.3
35°	1148.7	1144.7	1162.0	1148.8	1151.8	1131.7	1123.1	1099.5	1097.5
37.5°	1094.0	1092.2	1104.9	1096.6	1101.4	1080.3	1065.9	1043.3	1042.1
40°	1059.6	1054.6	1068.8	1059.7	1063.7	1042.6	1029.8	1007.3	1005.3
42.5°	1017.8	1017.6	1029.4	1022.0	1026.8	1004.9	988.9	967.1	964.3
45°	960.2	957.2	967.3	965.3	967.3	944.3	930.4	905.9	905.9
47.5°	896.6	894.6	908.3	902.8	905.6	885.6	867.7	845.7	842.1
50°	855.6	853.6	864.9	861.8	863.8	843.8	825.9	802.3	800.3
52.5°	813.0	811.0	823.1	819.2	820.4	802.8	783.3	762.1	758.5
55°	740.9	745.9	757.3	756.2	755.2	737.2	717.3	695.7	690.7
57.5°	678.8	680.8	688.8	690.4	687.0	675.2	650.9	629.9	624.7
60°	627.1	633.1	644.6	644.5	643.5	628.5	602.5	584.0	577.9
62.5°	579.6	586.4	596.2	598.6	597.6	579.4	557.4	539.7	532.0
65°	510.3	515.3	523.6	528.8	528.8	508.7	485.7	469.2	464.2
67.5°	438.2	444.2	451.9	458.0	455.2	436.5	416.7	401.7	393.3
70°	391.4	397.5	402.7	408.8	406.8	389.8	369.9	353.4	347.4
72.5°	343.9	350.7	355.2	360.4	357.6	340.6	323.2	308.3	300.7
75°	275.7	277.7	283.8	287.9	286.9	269.9	253.1	240.6	232.6
77.5°	208.6	209.4	214.6	216.3	211.5	200.7	187.1	177.3	169.3
80°	166.0	166.0	171.1	172.0	164.0	157.9	144.5	137.1	129.1
82.5°	122.6	123.4	130.1	130.2	123.8	117.0	107.6	99.5	94.7
85°	64.6	65.6	69.7	72.6	65.6	61.6	54.3	46.0	41.0
87.5°	17.2	18.0	23.8	26.9	20.5	20.5	13.1	9.0	7.4
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	2.2	3.3	5.5	20.5	23.0	20.8	19.7
95°	5.5	5.5	8.2	26.0	26.0	42.1	57.6	56.2	56.2
97.5°	12.3	13.7	19.2	79.3	59.2	57.6	82.2	90.5	91.3
100°	17.8	19.2	30.2	129.3	87.7	74.3	87.7	107.0	111.0
102.5°	24.4	26.8	47.7	204.1	123.9	89.1	103.1	116.9	120.9
105°	37.0	41.0	100.1	342.0	189.2	118.1	130.2	137.1	138.4
107.5°	55.7	70.7	273.9	481.0	268.4	156.3	163.4	168.1	169.7
110°	75.4	107.6	475.7	564.8	327.6	185.5	180.9	193.2	190.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	126.9	221.3	698.3	633.7	386.8	220.1	197.4	217.4	219.0
115°	355.0	609.7	933.5	731.7	477.0	280.0	223.4	242.8	250.8
117.5°	891.0	1060.1	1057.4	822.3	563.7	350.5	254.7	263.9	273.1
120°	1198.0	1223.5	1119.9	883.6	619.6	401.1	281.0	277.1	285.1
122.5°	1312.1	1291.5	1167.1	937.4	676.6	453.8	315.0	291.3	298.3
125°	1410.5	1370.3	1228.2	1014.1	760.8	531.6	377.0	322.1	320.8
127.5°	1465.1	1423.0	1288.0	1080.7	838.1	612.4	447.4	365.7	353.4
130°	1491.4	1452.5	1329.6	1121.5	889.6	667.1	499.0	403.9	385.2
132.5°	1523.2	1481.1	1359.2	1163.3	939.0	718.6	550.5	449.9	428.0
135°	1554.4	1515.6	1407.8	1218.0	1008.9	794.4	625.1	525.7	497.6
137.5°	1582.4	1546.8	1452.2	1260.9	1071.9	869.0	704.0	607.3	573.0
140°	1601.0	1562.2	1470.8	1293.9	1110.3	916.0	756.7	660.1	633.3
142.5°	1607.6	1583.8	1490.6	1321.7	1153.1	960.9	809.3	709.5	684.8
145°	1627.1	1611.0	1514.7	1355.0	1203.5	1027.9	889.6	786.2	759.4
147.5°	1639.7	1615.6	1536.9	1390.9	1252.9	1088.0	962.5	863.3	838.4
150°	1640.8	1622.0	1554.4	1413.1	1285.8	1131.6	1007.5	913.8	891.0
152.5°	1649.6	1626.5	1563.2	1431.9	1309.9	1168.6	1052.5	965.3	940.3
155°	1643.5	1627.5	1576.4	1456.0	1347.5	1216.1	1115.8	1038.5	1017.1
157.5°	1643.5	1623.7	1578.0	1474.8	1383.6	1268.4	1175.0	1103.6	1087.6
160°	1632.6	1624.5	1579.1	1488.1	1402.3	1297.7	1214.5	1149.6	1128.1
162.5°	1628.2	1614.8	1581.3	1497.0	1418.7	1321.7	1248.5	1187.0	1170.9
165°	1609.3	1597.2	1568.1	1501.1	1444.8	1364.4	1298.1	1243.1	1235.1
167.5°	1587.6	1578.2	1559.1	1507.6	1462.1	1396.4	1340.6	1296.2	1285.2
170°	1572.3	1557.5	1550.3	1511.0	1470.8	1415.9	1368.0	1328.0	1315.9
172.5°	1545.9	1544.1	1538.3	1502.6	1478.5	1433.2	1393.2	1356.6	1348.8
175°	1514.7	1514.7	1518.8	1496.7	1488.6	1451.1	1422.8	1400.6	1388.6
177.5°	1478.5	1479.6	1488.4	1487.3	1488.4	1466.9	1458.8	1437.9	1435.7
180°	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8

(END OF REPORT)