

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: P522473

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

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522473
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-100U-100D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

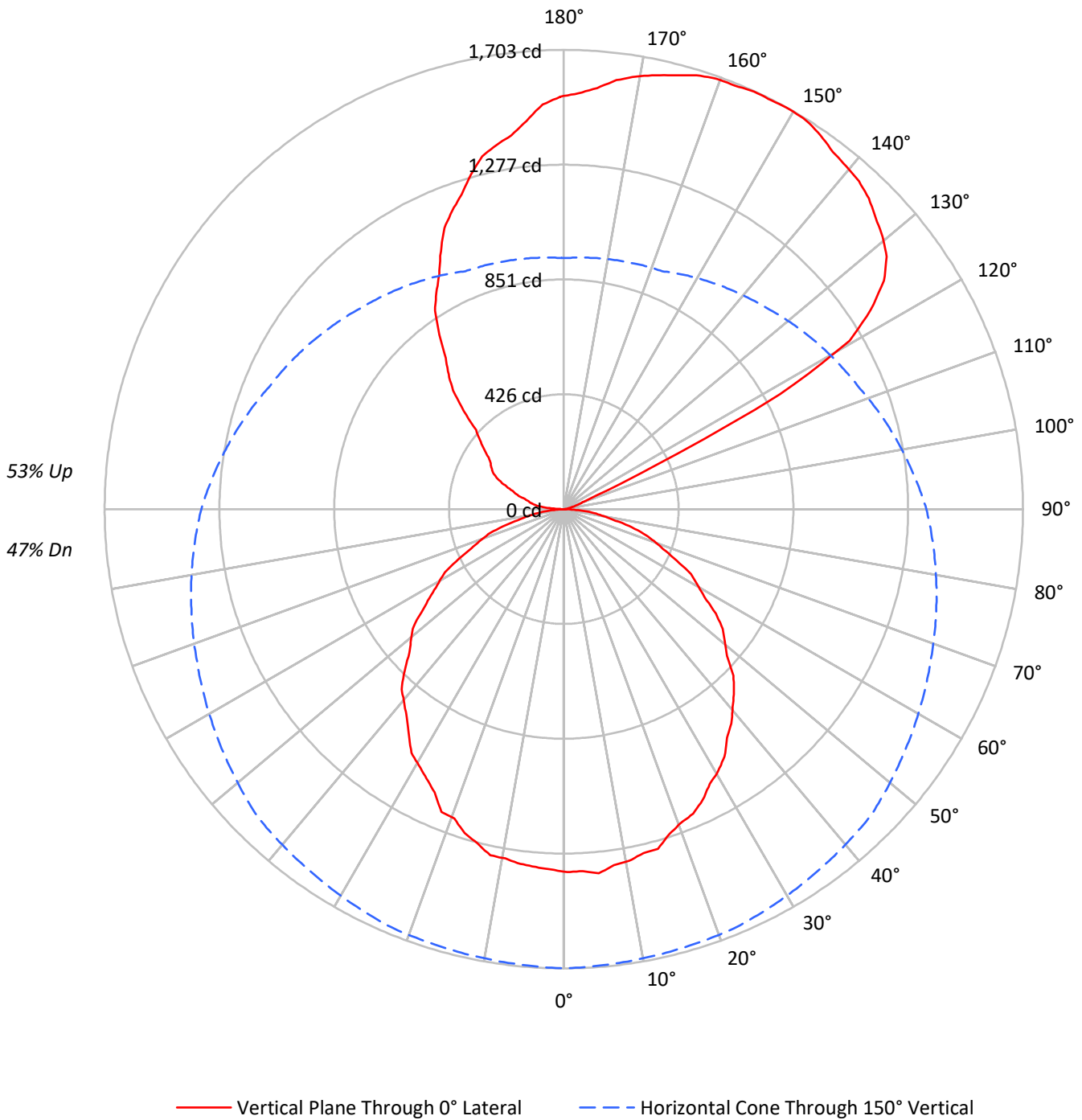
Lumens per Lamp: N/A
Luminaire Lumens: 8027.5 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79.9
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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	97	93	89	85	89	85	82	79	71	69	67	59	57	55	47	46	45	39
2	88	81	75	69	81	74	69	64	62	58	55	51	48	46	41	39	37	33
3	80	71	63	58	73	65	59	54	55	50	46	45	42	39	36	34	32	27
4	73	63	55	49	67	58	51	45	49	43	39	40	36	33	32	30	27	23
5	67	56	47	41	62	51	44	39	43	38	34	36	32	29	29	26	24	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	34	28	23	29	24	20	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

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	1.6
10°-20°	364.2	4.5
20°-30°	546.8	6.8
30°-40°	653.7	8.1
40°-50°	672.7	8.4
50°-60°	605.5	7.5
60°-70°	459.9	5.7
70°-80°	262.4	3.3
80°-90°	68.7	0.9
90°-100°	40.2	0.5
100°-110°	174.0	2.2
110°-120°	496.2	6.2
120°-130°	754.5	9.4
130°-140°	816.1	10.2
140°-150°	779.8	9.7
150°-160°	641.3	8.0
160°-170°	419.1	5.2
170°-180°	144.9	1.8
0°-30°	1038.5	12.9
0°-40°	1692.1	21.1
0°-60°	2970.3	37.0
0°-90°	3761.3	46.9
90°-120°	710.4	8.8
90°-150°	3060.8	38.1
90°-180°	4266.0	53.1
0°-180°	8027.5	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	65
90°	0	0	0	0	0	2
95°	6	9	27	65	61	8
105°	40	102	201	138	148	46
115°	366	973	502	239	270	503
125°	1459	1284	803	394	339	1282
135°	1614	1461	1056	655	519	1244
145°	1682	1574	1259	932	794	1054
155°	1702	1626	1406	1167	1059	786
165°	1661	1625	1506	1350	1288	472
175°	1565	1569	1542	1486	1446	152
180°	1529	1529	1529	1529	1529	



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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
92.5°	2.1	2.1	2.1	4.2	6.2	22.5	24.9	21.8	21.8
95°	6.5	6.5	9.1	28.5	27.3	46.3	64.9	61.0	61.0
97.5°	13.2	14.5	20.8	84.4	63.6	61.8	87.7	97.6	99.4
100°	19.5	20.7	31.1	137.9	94.7	80.8	96.0	114.3	118.1
102.5°	26.7	29.0	49.8	216.9	133.2	94.8	109.5	125.7	130.6
105°	40.2	44.0	102.5	363.6	201.2	123.8	137.6	144.1	148.0
107.5°	59.7	75.2	276.2	510.9	285.5	163.4	178.1	177.1	180.4
110°	80.5	112.2	477.6	591.5	347.8	194.3	194.7	205.0	201.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	133.4	223.0	712.3	669.0	410.1	231.2	210.3	233.1	234.4
115°	366.0	628.7	973.4	777.6	502.3	296.7	238.8	261.1	270.0
117.5°	907.5	1093.8	1107.1	874.1	594.2	369.8	271.5	281.4	293.1
120°	1230.4	1268.4	1169.4	933.3	655.4	421.9	298.5	294.9	307.6
122.5°	1357.0	1343.3	1220.2	988.5	715.6	477.1	331.7	311.4	320.1
125°	1458.8	1423.3	1283.6	1064.8	803.4	559.7	394.5	338.7	338.7
127.5°	1519.5	1478.2	1341.7	1132.5	882.5	643.2	470.1	383.1	371.2
130°	1554.8	1510.4	1377.0	1179.4	934.5	697.2	523.0	421.4	402.3
132.5°	1581.8	1541.5	1410.3	1216.0	985.3	750.1	576.0	468.9	437.6
135°	1614.5	1580.3	1461.4	1272.2	1056.5	829.3	655.4	550.9	519.1
137.5°	1635.6	1608.9	1507.3	1318.3	1122.4	907.9	735.6	630.6	601.9
140°	1647.0	1625.4	1530.2	1345.6	1162.9	958.6	791.7	684.7	658.0
142.5°	1658.4	1640.9	1546.8	1375.9	1202.3	1009.2	846.7	739.6	711.0
145°	1682.0	1661.7	1574.3	1412.5	1258.9	1080.0	931.9	819.7	794.3
147.5°	1698.6	1674.3	1596.9	1451.7	1312.4	1144.1	1010.0	901.7	876.6
150°	1702.8	1677.4	1609.3	1472.8	1344.6	1183.4	1057.8	954.7	930.6
152.5°	1699.7	1680.4	1618.7	1490.6	1371.6	1221.6	1101.4	1005.6	983.5
155°	1701.5	1683.7	1626.2	1514.7	1405.6	1274.9	1166.8	1081.9	1059.1
157.5°	1693.7	1682.0	1631.4	1533.2	1437.0	1322.5	1226.7	1155.3	1132.3
160°	1693.7	1675.9	1631.4	1543.8	1458.8	1353.5	1264.1	1200.1	1181.1
162.5°	1682.3	1666.5	1630.4	1551.4	1479.6	1382.4	1299.4	1239.7	1225.7
165°	1661.3	1648.6	1624.9	1561.4	1505.5	1421.8	1349.8	1296.4	1287.5
167.5°	1644.9	1627.4	1614.5	1561.0	1523.2	1450.1	1392.3	1348.1	1343.0
170°	1626.2	1614.8	1604.2	1558.1	1531.5	1470.6	1422.5	1378.2	1373.1
172.5°	1602.3	1596.0	1590.7	1556.2	1536.7	1487.9	1448.4	1408.2	1399.1
175°	1565.2	1570.3	1569.1	1552.0	1541.9	1510.1	1486.0	1457.2	1445.8
177.5°	1542.4	1540.3	1545.5	1542.4	1541.3	1522.0	1515.4	1495.8	1501.9
180°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9

(END OF REPORT)