

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: P522476

Luminaire Tested: **SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522476
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

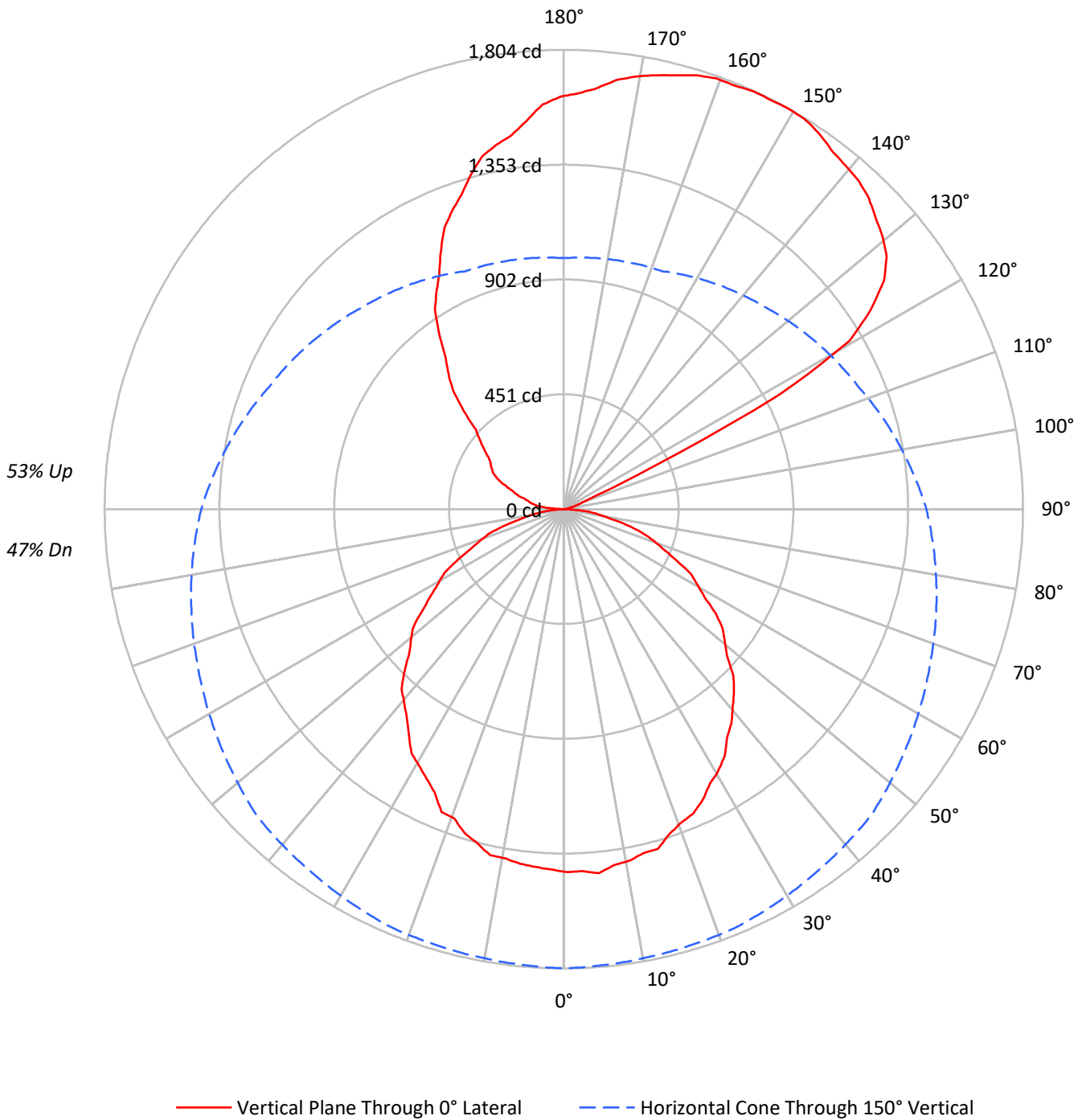
Lumens per Lamp: N/A
Luminaire Lumens: 8505.5 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79.7
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	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°	23021	23021	23021
5°	23293	23211	22857
10°	23055	23140	22817
15°	23142	23107	22674
20°	22596	22952	22153
25°	22563	22618	21788
30°	22281	22570	21567
35°	21760	22210	21191
40°	21547	21918	20763
45°	21336	21523	20390
50°	20585	21235	19806
55°	20389	20825	19108
60°	19478	20215	18409
65°	18621	19568	17471
70°	17778	18661	16315
75°	16525	17168	14716
80°	14142	15007	12311
85°	10541	11689	8429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	1.6
10°-20°	385.9	4.5
20°-30°	579.4	6.8
30°-40°	692.6	8.1
40°-50°	712.7	8.4
50°-60°	641.6	7.5
60°-70°	487.3	5.7
70°-80°	278.1	3.3
80°-90°	72.8	0.9
90°-100°	42.6	0.5
100°-110°	184.4	2.2
110°-120°	525.8	6.2
120°-130°	799.5	9.4
130°-140°	864.7	10.2
140°-150°	826.2	9.7
150°-160°	679.5	8.0
160°-170°	444.0	5.2
170°-180°	153.6	1.8
0°-30°	1100.3	12.9
0°-40°	1792.9	21.1
0°-60°	3147.2	37.0
0°-90°	3985.3	46.9
90°-120°	752.7	8.8
90°-150°	3243.1	38.1
90°-180°	4520.0	53.1
0°-180°	8505.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1426	1426	1426	1426	1426	
5°	1437	1426	1432	1407	1410	135
15°	1384	1376	1382	1363	1356	387
25°	1266	1274	1270	1256	1223	582
35°	1104	1131	1127	1102	1075	695
45°	934	942	943	922	893	714
55°	724	737	740	710	679	641
65°	487	501	512	477	457	485
75°	265	272	275	251	236	277
85°	57	65	63	57	46	68
90°	0	0	0	0	0	2
95°	7	10	29	69	65	9
105°	43	109	213	146	157	49
115°	388	1031	532	253	286	533
125°	1546	1360	851	418	359	1358
135°	1711	1548	1119	694	550	1319
145°	1782	1668	1334	987	842	1116
155°	1803	1723	1489	1236	1122	833
165°	1760	1722	1595	1430	1364	500
175°	1658	1663	1634	1574	1532	161
180°	1620	1620	1620	1620	1620	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8
2.5°	1424.2	1435.5	1420.1	1424.5	1438.3	1421.3	1425.8	1417.6	1416.7
5°	1437.2	1420.0	1425.8	1417.9	1432.1	1418.9	1407.2	1422.5	1410.3
7.5°	1412.8	1401.7	1424.4	1413.0	1420.5	1411.6	1412.8	1404.3	1404.1
10°	1406.2	1399.1	1406.2	1406.3	1411.4	1399.2	1397.9	1388.7	1391.7
12.5°	1387.1	1397.1	1386.3	1399.8	1410.5	1389.5	1381.4	1384.6	1390.0
15°	1384.5	1381.4	1376.2	1372.3	1382.4	1358.1	1362.7	1353.5	1356.5
17.5°	1342.4	1348.1	1350.7	1347.4	1356.5	1334.5	1329.2	1329.2	1330.7
20°	1315.1	1327.3	1335.8	1326.7	1335.8	1318.6	1315.1	1302.4	1289.3
22.5°	1300.2	1297.8	1315.1	1297.0	1309.3	1288.1	1297.7	1275.6	1282.6
25°	1266.5	1256.4	1273.7	1263.5	1269.6	1252.4	1256.2	1229.1	1223.0
27.5°	1221.6	1221.6	1232.1	1227.9	1232.1	1218.4	1214.6	1189.9	1187.4
30°	1195.1	1187.0	1206.5	1197.5	1210.6	1178.2	1180.6	1160.9	1156.8
32.5°	1159.5	1162.7	1175.9	1164.4	1180.0	1149.2	1155.0	1124.6	1129.5
35°	1104.0	1110.1	1131.0	1115.7	1126.8	1108.6	1102.0	1082.2	1075.1
37.5°	1068.7	1059.4	1069.5	1070.4	1073.8	1053.8	1046.5	1022.6	1024.8
40°	1022.3	1020.3	1034.7	1038.9	1039.9	1020.7	1015.1	986.1	985.1
42.5°	980.1	982.1	994.2	999.1	999.3	980.1	979.5	948.1	951.9
45°	934.4	931.3	941.6	940.6	942.6	922.4	921.9	892.0	893.0
47.5°	862.5	869.0	876.0	878.0	885.9	868.7	856.5	832.7	829.0
50°	819.5	831.6	833.0	842.3	845.4	824.1	814.3	794.5	788.5
52.5°	781.4	787.9	793.2	799.3	804.0	784.4	769.6	750.8	749.6
55°	724.3	720.3	736.7	734.8	739.8	724.6	709.8	688.9	678.8
57.5°	650.4	658.3	662.0	669.7	673.2	656.6	643.6	621.4	620.6
60°	603.2	614.4	615.7	629.0	626.0	611.8	598.1	578.2	570.1
62.5°	560.2	563.2	571.8	581.1	582.1	566.4	555.9	534.4	528.7
65°	487.4	493.4	500.8	513.2	512.2	501.1	477.0	465.4	457.3
67.5°	421.3	423.4	433.3	439.2	443.3	427.9	414.1	397.9	394.4
70°	376.6	374.6	387.0	391.2	395.3	383.1	369.4	354.7	345.6
72.5°	327.8	329.8	339.0	345.7	348.1	335.9	321.4	310.1	304.2
75°	264.9	262.9	272.1	276.2	275.2	266.1	251.4	244.0	235.9
77.5°	195.1	199.2	204.7	208.4	206.9	200.9	189.4	178.1	174.7
80°	152.1	156.2	162.5	164.5	161.4	155.3	148.0	137.5	132.4
82.5°	112.4	114.8	121.1	124.7	120.0	116.4	109.9	101.9	96.0
85°	56.9	58.9	65.2	67.2	63.1	63.1	56.9	49.6	45.5
87.5°	13.2	14.1	19.0	24.7	19.9	21.5	16.6	12.3	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.2	2.2	2.2	4.4	6.6	23.8	26.4	23.1	23.1
95°	6.9	6.9	9.6	30.2	28.9	49.0	68.8	64.6	64.6
97.5°	14.0	15.4	22.0	89.4	67.4	65.5	93.0	103.5	105.3
100°	20.6	22.0	33.0	146.1	100.4	85.6	101.8	121.1	125.1
102.5°	28.3	30.7	52.8	229.8	141.1	100.5	116.1	133.2	138.3
105°	42.6	46.7	108.6	385.3	213.1	131.1	145.8	152.7	156.8
107.5°	63.3	79.7	292.6	541.3	302.5	173.2	188.7	187.6	191.1
110°	85.3	118.9	506.1	626.7	368.5	205.8	206.3	217.2	213.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	141.4	236.3	754.7	708.8	434.5	245.0	222.8	247.0	248.4
115°	387.8	666.1	1031.4	824.0	532.2	314.4	253.0	276.6	286.0
117.5°	961.5	1158.9	1173.0	926.2	629.5	391.8	287.7	298.1	310.5
120°	1303.6	1344.0	1239.0	988.9	694.4	447.0	316.3	312.5	325.9
122.5°	1437.9	1423.3	1292.9	1047.3	758.3	505.5	351.5	330.0	339.1
125°	1545.7	1508.0	1360.0	1128.2	851.2	593.1	418.0	358.9	358.9
127.5°	1610.0	1566.2	1421.6	1200.0	935.1	681.5	498.1	405.9	393.3
130°	1647.4	1600.4	1459.0	1249.6	990.1	738.7	554.2	446.5	426.3
132.5°	1676.0	1633.3	1494.2	1288.5	1044.0	794.7	610.3	496.8	463.7
135°	1710.7	1674.4	1548.4	1347.9	1119.4	878.7	694.4	583.7	550.1
137.5°	1733.0	1704.7	1597.1	1396.8	1189.2	962.0	779.4	668.2	637.8
140°	1745.1	1722.2	1621.3	1425.8	1232.1	1015.7	838.8	725.4	697.2
142.5°	1757.2	1738.6	1638.9	1457.9	1273.9	1069.3	897.1	783.7	753.3
145°	1782.2	1760.7	1668.1	1496.6	1333.9	1144.3	987.4	868.5	841.6
147.5°	1799.8	1774.0	1692.0	1538.2	1390.5	1212.3	1070.1	955.4	928.8
150°	1804.2	1777.3	1705.2	1560.5	1424.7	1253.9	1120.7	1011.5	986.0
152.5°	1800.9	1780.5	1715.1	1579.4	1453.3	1294.3	1166.9	1065.5	1042.1
155°	1802.8	1784.0	1723.1	1604.9	1489.3	1350.8	1236.3	1146.3	1122.1
157.5°	1794.6	1782.2	1728.6	1624.5	1522.6	1401.3	1299.8	1224.1	1199.7
160°	1794.6	1775.7	1728.6	1635.8	1545.7	1434.1	1339.4	1271.6	1251.4
162.5°	1782.5	1765.8	1727.5	1643.8	1567.7	1464.7	1376.8	1313.5	1298.7
165°	1760.2	1746.7	1721.7	1654.3	1595.2	1506.4	1430.2	1373.6	1364.1
167.5°	1742.9	1724.3	1710.7	1653.9	1613.9	1536.4	1475.3	1428.4	1423.0
170°	1723.1	1711.0	1699.7	1650.9	1622.7	1558.1	1507.2	1460.3	1454.9
172.5°	1697.8	1691.0	1685.4	1648.9	1628.2	1576.5	1534.7	1492.1	1482.4
175°	1658.4	1663.8	1662.6	1644.4	1633.7	1600.1	1574.5	1544.0	1531.9
177.5°	1634.2	1632.1	1637.5	1634.2	1633.1	1612.7	1605.6	1584.9	1591.3
180°	1619.9	1619.9	1619.9	1619.9	1619.9	1619.9	1619.9	1619.9	1619.9

(END OF REPORT)