

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: P522475

Luminaire Tested: **SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522475
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

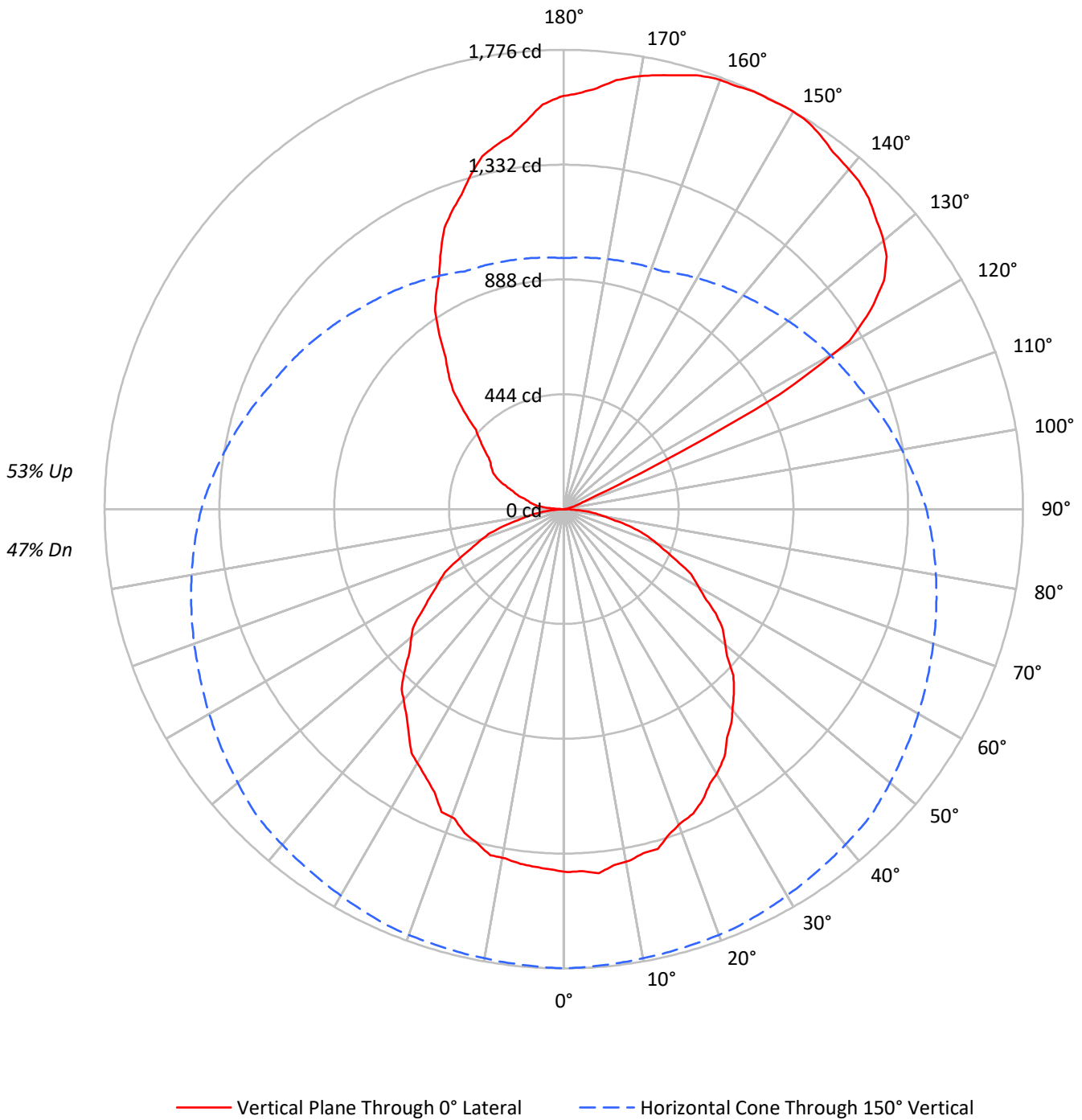
Lumens per Lamp: N/A
Luminaire Lumens: 8370.5 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47				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°	22656	22656	22656
5°	22924	22841	22494
10°	22689	22773	22454
15°	22775	22740	22315
20°	22239	22588	21801
25°	22205	22258	21442
30°	21927	22212	21226
35°	21415	21857	20854
40°	21205	21570	20432
45°	20996	21183	20066
50°	20258	20896	19489
55°	20065	20496	18804
60°	19172	19895	18119
65°	18323	19259	17196
70°	17500	18364	16055
75°	16263	16899	14485
80°	13919	14775	12115
85°	10374	11504	8299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	1.6
10°-20°	379.8	4.5
20°-30°	570.2	6.8
30°-40°	681.6	8.1
40°-50°	701.4	8.4
50°-60°	631.4	7.5
60°-70°	479.6	5.7
70°-80°	273.6	3.3
80°-90°	71.6	0.9
90°-100°	41.9	0.5
100°-110°	181.5	2.2
110°-120°	517.4	6.2
120°-130°	786.8	9.4
130°-140°	850.9	10.2
140°-150°	813.1	9.7
150°-160°	668.7	8.0
160°-170°	437.0	5.2
170°-180°	151.1	1.8
0°-30°	1082.8	12.9
0°-40°	1764.4	21.1
0°-60°	3097.2	37.0
0°-90°	3922.1	46.9
90°-120°	740.8	8.9
90°-150°	3191.6	38.1
90°-180°	4448.0	53.1
0°-180°	8370.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1403	1403	1403	1403	1403	
5°	1414	1403	1409	1385	1388	133
15°	1362	1354	1360	1341	1335	381
25°	1246	1254	1249	1236	1204	573
35°	1086	1113	1109	1084	1058	684
45°	920	927	928	907	879	702
55°	713	725	728	699	668	631
65°	480	493	504	469	450	477
75°	261	268	271	247	232	273
85°	56	64	62	56	45	67
90°	0	0	0	0	0	2
95°	7	10	28	68	64	9
105°	42	107	210	144	154	48
115°	382	1015	524	249	282	525
125°	1521	1338	838	411	353	1337
135°	1684	1524	1102	683	541	1298
145°	1754	1642	1313	972	828	1099
155°	1774	1696	1466	1217	1104	820
165°	1732	1694	1570	1407	1342	492
175°	1632	1636	1608	1550	1508	158
180°	1594	1594	1594	1594	1594	



TEST NUMBER: P522475

CATALOG NUMBER: SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2
2.5°	1401.6	1412.7	1397.5	1401.9	1415.4	1398.7	1403.2	1395.0	1394.3
5°	1414.4	1397.5	1403.2	1395.4	1409.3	1396.4	1384.9	1399.9	1387.9
7.5°	1390.4	1379.4	1401.8	1390.5	1397.9	1389.2	1390.4	1382.0	1381.8
10°	1383.9	1376.9	1383.9	1384.0	1389.0	1377.0	1375.7	1366.6	1369.6
12.5°	1365.1	1374.9	1364.3	1377.6	1388.1	1367.4	1359.4	1362.6	1368.0
15°	1362.5	1359.5	1354.3	1350.5	1360.4	1336.5	1341.1	1332.0	1335.0
17.5°	1321.1	1326.7	1329.3	1326.0	1335.0	1313.3	1308.1	1308.1	1309.5
20°	1294.3	1306.2	1314.6	1305.7	1314.6	1297.7	1294.3	1281.7	1268.8
22.5°	1279.6	1277.2	1294.3	1276.4	1288.6	1267.6	1277.1	1255.3	1262.3
25°	1246.4	1236.4	1253.5	1243.5	1249.4	1232.5	1236.2	1209.6	1203.6
27.5°	1202.2	1202.2	1212.6	1208.4	1212.6	1199.0	1195.3	1171.0	1168.6
30°	1176.1	1168.2	1187.3	1178.5	1191.4	1159.5	1161.9	1142.4	1138.5
32.5°	1141.1	1144.3	1157.2	1145.9	1161.3	1131.0	1136.6	1106.8	1111.6
35°	1086.5	1092.5	1113.0	1098.0	1108.9	1091.0	1084.5	1065.0	1058.0
37.5°	1051.7	1042.5	1052.5	1053.4	1056.8	1037.1	1029.9	1006.3	1008.5
40°	1006.1	1004.1	1018.3	1022.4	1023.4	1004.5	998.9	970.4	969.4
42.5°	964.5	966.5	978.4	983.3	983.5	964.6	963.9	933.0	936.8
45°	919.5	916.5	926.6	925.7	927.7	907.8	907.3	877.8	878.8
47.5°	848.9	855.2	862.1	864.1	871.9	854.9	842.9	819.4	815.9
50°	806.5	818.4	819.7	829.0	831.9	811.0	801.4	781.9	775.9
52.5°	769.0	775.4	780.6	786.6	791.2	771.9	757.4	738.8	737.7
55°	712.8	708.8	725.0	723.1	728.1	713.1	698.6	678.0	668.0
57.5°	640.1	647.9	651.5	659.1	662.5	646.2	633.4	611.6	610.8
60°	593.7	604.6	605.9	619.1	616.1	602.1	588.6	569.0	561.1
62.5°	551.3	554.3	562.7	571.9	572.9	557.4	547.0	525.9	520.3
65°	479.6	485.6	492.9	505.1	504.1	493.1	469.4	458.1	450.1
67.5°	414.6	416.6	426.5	432.3	436.2	421.1	407.5	391.6	388.2
70°	370.7	368.7	380.8	385.0	389.0	377.0	363.5	349.1	340.1
72.5°	322.6	324.6	333.6	340.2	342.6	330.6	316.3	305.2	299.4
75°	260.7	258.7	267.8	271.9	270.9	261.9	247.4	240.1	232.2
77.5°	192.1	196.0	201.4	205.1	203.7	197.7	186.3	175.3	171.9
80°	149.7	153.7	159.9	161.8	158.9	152.9	145.6	135.3	130.3
82.5°	110.6	113.0	119.1	122.7	118.1	114.5	108.1	100.3	94.5
85°	56.0	58.0	64.2	66.1	62.1	62.1	56.0	48.8	44.8
87.5°	13.0	13.8	18.7	24.3	19.6	21.1	16.3	12.1	9.0
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	6.5	23.4	26.0	22.7	22.7
95°	6.8	6.8	9.5	29.7	28.4	48.3	67.7	63.6	63.6
97.5°	13.8	15.1	21.7	88.0	66.3	64.5	91.5	101.8	103.7
100°	20.3	21.6	32.5	143.8	98.8	84.2	100.1	119.2	123.2
102.5°	27.9	30.3	52.0	226.2	138.9	98.9	114.2	131.1	136.1
105°	42.0	45.9	106.9	379.1	209.8	129.0	143.5	150.3	154.3
107.5°	62.3	78.4	288.0	532.7	297.7	170.4	185.7	184.7	188.1
110°	83.9	117.0	498.0	616.8	362.7	202.6	203.0	213.7	209.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	139.1	232.5	742.7	697.6	427.6	241.1	219.2	243.1	244.4
115°	381.6	655.5	1015.0	810.9	523.7	309.4	249.0	272.2	281.5
117.5°	946.2	1140.5	1154.4	911.5	619.5	385.6	283.1	293.4	305.6
120°	1282.9	1322.6	1219.3	973.2	683.4	439.9	311.3	307.5	320.7
122.5°	1415.0	1400.7	1272.4	1030.7	746.2	497.4	345.9	324.7	333.7
125°	1521.1	1484.1	1338.4	1110.3	837.7	583.6	411.4	353.2	353.2
127.5°	1584.5	1541.3	1399.1	1180.9	920.3	670.7	490.2	399.5	387.0
130°	1621.3	1575.0	1435.9	1229.8	974.4	726.9	545.4	439.4	419.5
132.5°	1649.4	1607.3	1470.5	1268.0	1027.4	782.1	600.6	488.9	456.3
135°	1683.5	1647.8	1523.8	1326.6	1101.6	864.7	683.4	574.4	541.3
137.5°	1705.4	1677.7	1571.7	1374.7	1170.3	946.7	767.1	657.6	627.7
140°	1717.4	1694.9	1595.6	1403.1	1212.6	999.5	825.5	713.9	686.1
142.5°	1729.3	1711.0	1612.9	1434.7	1253.7	1052.3	882.9	771.3	741.3
145°	1753.9	1732.7	1641.6	1472.8	1312.7	1126.1	971.7	854.7	828.2
147.5°	1771.2	1745.8	1665.1	1513.8	1368.5	1193.0	1053.2	940.2	914.0
150°	1775.6	1749.1	1678.1	1535.7	1402.0	1234.0	1103.0	995.5	970.3
152.5°	1772.3	1752.2	1687.9	1554.3	1430.2	1273.8	1148.4	1048.6	1025.5
155°	1774.2	1755.7	1695.7	1579.4	1465.6	1329.3	1216.6	1128.1	1104.3
157.5°	1766.1	1753.9	1701.1	1598.7	1498.4	1379.0	1279.2	1204.7	1180.6
160°	1766.1	1747.6	1701.1	1609.8	1521.1	1411.3	1318.1	1251.4	1231.5
162.5°	1754.2	1737.8	1700.0	1617.7	1542.8	1441.4	1354.9	1292.6	1278.1
165°	1732.2	1719.0	1694.4	1628.1	1569.8	1482.5	1407.4	1351.8	1342.5
167.5°	1715.2	1696.9	1683.5	1627.7	1588.3	1512.0	1451.8	1405.7	1400.4
170°	1695.7	1683.8	1672.7	1624.7	1596.9	1533.4	1483.2	1437.1	1431.8
172.5°	1670.8	1664.2	1658.6	1622.7	1602.3	1551.5	1510.3	1468.4	1458.9
175°	1632.1	1637.4	1636.2	1618.3	1607.7	1574.7	1549.5	1519.5	1507.6
177.5°	1608.3	1606.2	1611.5	1608.3	1607.2	1587.1	1580.1	1559.7	1566.1
180°	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2

(END OF REPORT)