

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: P520756

Luminaire Tested: **8WSLA-50-L850-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-50-L850-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

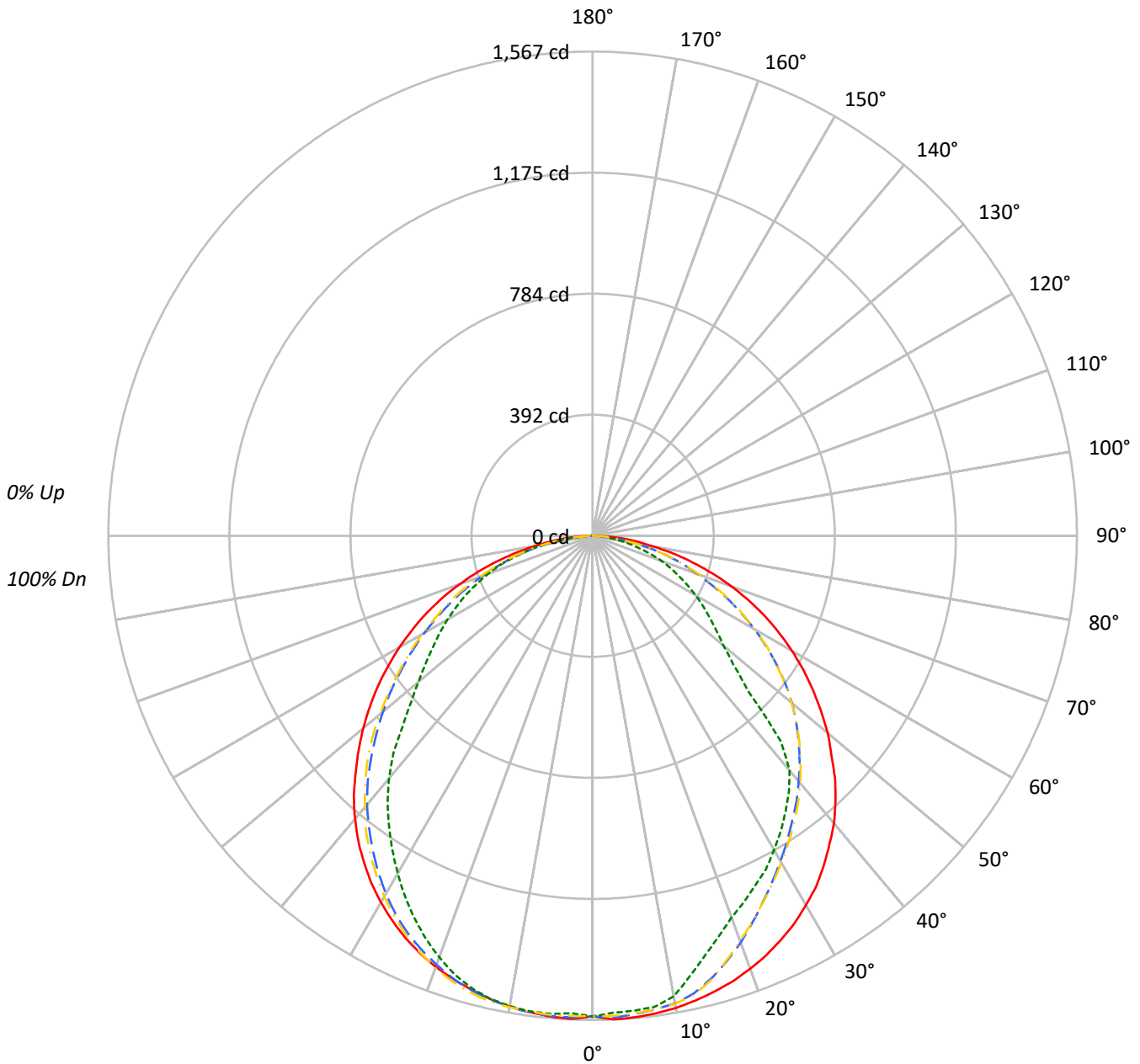
Lumens per Lamp: N/A
Luminaire Lumens: 4172.0 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 30.5
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

TEST NUMBER: P520756

CATALOG NUMBER: 8WSLA-50-L850-UNV-U

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84			84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70			70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60			60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51			51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44			44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39			39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34			34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31			31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28			28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25			25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4185	4185	4185	4185
5°	4226	4167	4219	4194
10°	4240	4136	4229	4222
15°	4254	3916	4235	4221
20°	4269	3763	4253	4157
25°	4283	3701	4261	4053
30°	4288	3648	4257	3920
35°	4281	3577	4237	3774
40°	4267	3482	4200	3599
45°	4220	2705	4125	3302
50°	4156	2316	4055	3081
55°	4083	2168	3977	2963
60°	4005	2070	3884	2914
65°	3910	1961	3777	2879
70°	3755	1864	3597	2836
75°	3496	1640	3331	2698
80°	3102	1370	2909	2289
85°	2936	979	2575	1315



TEST NUMBER: P520756

CATALOG NUMBER: 8WSLA-50-L850-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	3.5
10°-20°	421.5	10.1
20°-30°	629.8	15.1
30°-40°	749.7	18.0
40°-50°	749.3	18.0
50°-60°	644.8	15.5
60°-70°	485.3	11.6
70°-80°	276.5	6.6
80°-90°	67.3	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1199.0	28.7
0°-40°	1948.7	46.7
0°-60°	3342.8	80.1
0°-90°	4172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4172.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1555	1555	1555	1555	1555	
5°	1564	1543	1562	1553	1564	149
15°	1527	1406	1520	1515	1527	431
25°	1442	1246	1435	1365	1442	665
35°	1303	1089	1290	1149	1303	815
45°	1109	711	1084	868	1109	854
55°	870	462	848	632	870	778
65°	614	308	593	452	614	606
75°	336	158	320	260	336	356
85°	95	32	83	43	95	103
90°	0	0	0	0	0	



TEST NUMBER: P520756

CATALOG NUMBER: 8WSLA-50-L850-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2
2.5°	1566.9	1552.7	1561.0	1558.5	1545.2	1550.2	1555.2	1550.2	1565.2	1551.8	1561.0
5°	1564.4	1549.3	1554.3	1549.3	1542.7	1544.3	1551.8	1546.8	1561.9	1547.7	1559.4
7.5°	1559.4	1541.0	1546.0	1543.5	1537.7	1538.5	1546.0	1541.8	1555.2	1541.8	1555.2
10°	1551.8	1532.7	1536.8	1526.0	1513.5	1522.6	1537.7	1533.5	1547.7	1532.7	1547.7
12.5°	1540.2	1521.0	1516.8	1480.9	1458.4	1475.9	1521.8	1521.8	1535.2	1521.0	1536.8
15°	1526.8	1506.0	1483.4	1429.2	1405.8	1423.4	1486.8	1508.5	1520.1	1506.0	1521.8
17.5°	1511.0	1486.8	1443.4	1380.0	1358.3	1375.8	1440.9	1488.4	1503.5	1488.4	1502.6
20°	1490.9	1462.6	1400.8	1328.2	1314.1	1329.9	1395.0	1464.2	1485.1	1466.7	1476.8
22.5°	1469.2	1435.0	1353.3	1288.2	1281.5	1291.5	1350.8	1434.2	1461.7	1442.5	1449.2
25°	1442.5	1402.5	1305.7	1251.5	1246.5	1252.3	1307.4	1399.2	1435.0	1415.0	1417.5
27.5°	1414.2	1370.8	1260.7	1220.6	1215.6	1218.1	1264.0	1360.0	1404.2	1384.1	1380.0
30°	1380.0	1333.3	1215.6	1178.9	1173.9	1183.1	1222.3	1319.9	1370.0	1349.9	1337.4
32.5°	1345.8	1292.4	1171.4	1143.0	1133.0	1141.4	1178.9	1278.2	1332.4	1311.6	1290.7
35°	1303.2	1249.0	1125.5	1097.1	1088.8	1098.0	1135.5	1234.8	1289.9	1269.0	1240.6
37.5°	1259.0	1203.1	1083.8	1057.9	1042.9	1053.8	1091.3	1189.7	1245.6	1224.0	1188.9
40°	1214.8	1154.7	1037.1	1010.4	991.2	1007.0	1045.4	1142.2	1195.6	1175.6	1135.5
42.5°	1163.1	1106.3	991.2	953.6	899.4	950.3	996.2	1094.6	1143.9	1124.7	1076.3
45°	1108.8	1054.6	942.8	851.8	710.8	860.2	946.1	1044.6	1083.8	1065.4	1012.9
47.5°	1047.1	1001.2	893.6	755.1	618.2	763.4	895.2	997.0	1027.1	1007.0	948.6
50°	992.8	947.8	841.8	673.3	553.2	682.5	841.0	943.6	968.7	950.3	885.2
52.5°	931.1	891.9	785.9	600.7	504.8	609.9	784.3	888.6	908.6	886.9	821.8
55°	870.2	835.2	726.7	536.5	462.2	544.8	725.0	831.8	847.7	822.6	755.1
57.5°	808.5	776.8	665.8	478.9	423.0	488.1	670.0	773.4	784.3	752.6	690.8
60°	744.2	717.5	604.1	428.0	384.6	435.5	602.4	715.0	721.7	687.5	628.2
62.5°	680.0	655.8	542.3	381.3	345.4	386.3	546.5	653.3	657.4	624.9	564.0
65°	614.1	591.5	482.2	332.1	307.9	340.4	486.4	589.0	593.2	556.5	501.4
67.5°	545.6	527.3	418.0	294.5	272.0	297.0	426.3	524.0	526.5	490.6	440.5
70°	477.2	461.4	361.3	253.6	236.9	254.5	367.1	452.2	457.2	418.8	378.8
72.5°	407.2	394.6	306.2	211.1	196.1	211.1	309.5	386.3	389.6	357.9	318.7
75°	336.2	327.1	250.3	169.4	157.7	168.5	252.0	320.4	320.4	290.3	259.5
77.5°	267.8	261.1	191.9	130.2	121.8	128.5	192.7	253.6	252.0	228.6	204.4
80°	200.2	195.2	137.7	94.3	88.4	91.8	137.7	187.7	187.7	171.0	141.8
82.5°	143.5	137.7	90.9	61.7	58.4	60.1	89.3	131.0	133.5	121.0	95.9
85°	95.1	81.8	49.2	34.2	31.7	32.5	46.7	75.9	83.4	70.1	50.1
87.5°	41.7	27.5	12.5	5.0	2.5	3.3	10.0	24.2	31.7	20.9	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P520756

CATALOG NUMBER: 8WSLA-50-L850-UNV-U

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2
2.5°	1560.2	1546.8	1551.8	1555.2	1551.8	1566.9
5°	1558.5	1552.7	1551.8	1556.0	1549.3	1564.4
7.5°	1556.0	1552.7	1551.8	1553.5	1545.2	1559.4
10°	1550.2	1545.2	1546.8	1549.3	1538.5	1551.8
12.5°	1539.3	1534.3	1535.2	1543.5	1528.5	1540.2
15°	1521.0	1515.1	1521.0	1530.2	1516.8	1526.8
17.5°	1496.8	1487.6	1497.6	1511.8	1501.8	1511.0
20°	1465.9	1451.7	1462.6	1488.4	1479.3	1490.9
22.5°	1428.4	1410.8	1421.7	1459.2	1456.7	1469.2
25°	1385.8	1365.0	1380.0	1425.9	1430.9	1442.5
27.5°	1338.3	1314.9	1334.9	1389.2	1400.8	1414.2
30°	1286.5	1261.5	1284.9	1348.3	1365.8	1380.0
32.5°	1233.1	1205.6	1232.3	1302.4	1327.4	1345.8
35°	1177.2	1148.9	1178.9	1254.8	1284.9	1303.2
37.5°	1117.2	1089.6	1122.2	1204.8	1240.6	1259.0
40°	1055.4	1024.6	1061.3	1145.5	1193.1	1214.8
42.5°	992.0	953.6	998.7	1089.6	1141.4	1163.1
45°	921.1	867.7	928.6	1030.4	1084.6	1108.8
47.5°	850.2	796.8	858.5	967.0	1025.4	1047.1
50°	781.8	735.9	785.1	897.7	965.3	992.8
52.5°	719.2	681.6	723.4	830.2	903.6	931.1
55°	660.8	631.6	665.8	763.4	838.5	870.2
57.5°	605.7	587.4	610.7	700.0	778.4	808.5
60°	554.0	541.5	558.2	637.4	707.5	744.2
62.5°	503.1	496.4	508.9	571.5	641.6	680.0
65°	453.9	452.2	458.9	513.9	572.3	614.1
67.5°	404.6	403.8	408.0	453.0	504.8	545.6
70°	355.4	360.4	357.9	387.1	437.2	477.2
72.5°	305.4	312.9	308.7	327.1	375.4	407.2
75°	249.5	259.5	251.1	272.0	302.0	336.2
77.5°	191.9	202.7	192.7	211.1	243.6	267.8
80°	137.7	147.7	139.3	153.5	181.9	200.2
82.5°	86.8	94.3	87.6	101.8	130.2	143.5
85°	38.4	42.6	44.2	55.1	80.1	95.1
87.5°	1.7	0.8	1.7	10.8	28.4	41.7
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)