

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: P520468

Luminaire Tested: **4WSLA-100-L850-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520468
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: 4WSLA-100-L850-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

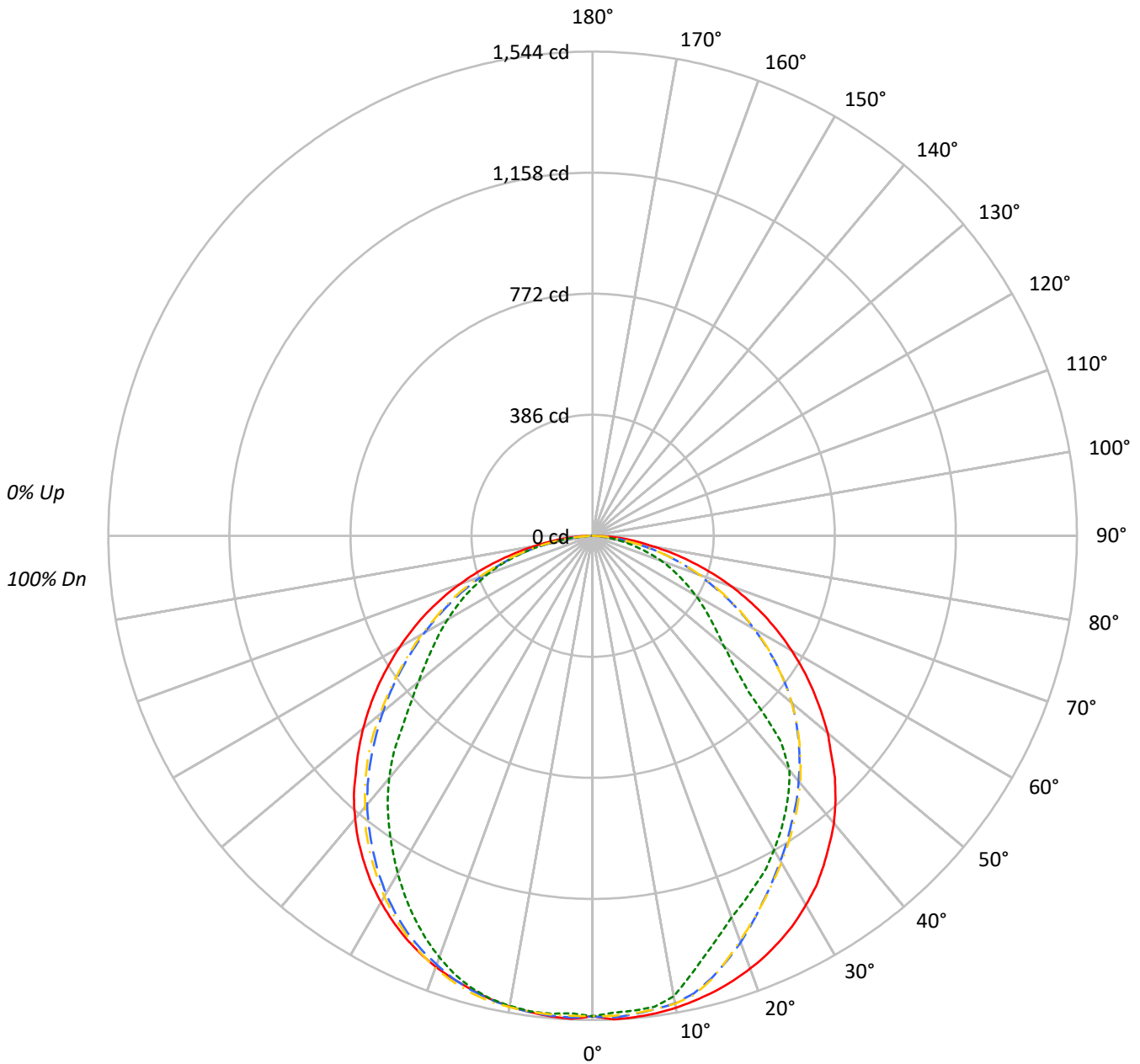
Lumens per Lamp: N/A
Luminaire Lumens: 4110.0 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8246	8246	8246	8246
5°	8326	8210	8312	8264
10°	8355	8148	8332	8319
15°	8381	7716	8344	8316
20°	8412	7414	8379	8191
25°	8439	7292	8395	7985
30°	8449	7187	8387	7723
35°	8435	7047	8349	7436
40°	8408	6860	8275	7091
45°	8314	5330	8127	6506
50°	8189	4562	7990	6069
55°	8044	4272	7836	5838
60°	7892	4078	7653	5741
65°	7703	3862	7442	5673
70°	7397	3673	7087	5588
75°	6887	3229	6563	5315
80°	6115	2700	5731	4510
85°	5786	1927	5076	2587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	3.5
10°-20°	415.2	10.1
20°-30°	620.4	15.1
30°-40°	738.5	18.0
40°-50°	738.2	18.0
50°-60°	635.2	15.5
60°-70°	478.1	11.6
70°-80°	272.4	6.6
80°-90°	66.3	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°	1181.2	28.7
0°-40°	1919.7	46.7
0°-60°	3293.2	80.1
0°-90°	4110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4110.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1532	1532	1532	1532	1532	
5°	1541	1520	1539	1530	1541	147
15°	1504	1385	1498	1493	1504	425
25°	1421	1228	1414	1345	1421	655
35°	1284	1073	1271	1132	1284	803
45°	1092	700	1068	855	1092	841
55°	857	455	835	622	857	766
65°	605	303	584	446	605	597
75°	331	155	316	256	331	351
85°	94	31	82	42	94	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1
2.5°	1543.6	1529.6	1537.8	1535.4	1522.2	1527.1	1532.1	1527.1	1541.9	1528.8	1537.8
5°	1541.1	1526.3	1531.3	1526.3	1519.7	1521.4	1528.8	1523.9	1538.6	1524.7	1536.2
7.5°	1536.2	1518.1	1523.0	1520.6	1514.8	1515.6	1523.0	1518.9	1532.1	1518.9	1532.1
10°	1528.8	1509.9	1514.0	1503.3	1491.0	1500.0	1514.8	1510.7	1524.7	1509.9	1524.7
12.5°	1517.3	1498.4	1494.3	1458.9	1436.7	1454.0	1499.2	1499.2	1512.3	1498.4	1514.0
15°	1504.1	1483.6	1461.4	1408.0	1384.9	1402.2	1464.7	1486.0	1497.6	1483.6	1499.2
17.5°	1488.5	1464.7	1421.9	1359.5	1338.1	1355.4	1419.5	1466.3	1481.1	1466.3	1480.3
20°	1468.8	1440.8	1380.0	1308.5	1294.5	1310.2	1374.3	1442.5	1463.0	1444.9	1454.8
22.5°	1447.4	1413.7	1333.2	1269.1	1262.5	1272.3	1330.7	1412.9	1440.0	1421.1	1427.7
25°	1421.1	1381.7	1286.3	1232.9	1228.0	1233.7	1288.0	1378.4	1413.7	1394.0	1396.5
27.5°	1393.2	1350.4	1241.9	1202.5	1197.5	1200.0	1245.2	1339.7	1383.3	1363.6	1359.5
30°	1359.5	1313.4	1197.5	1161.4	1156.5	1165.5	1204.1	1300.3	1349.6	1329.9	1317.5
32.5°	1325.8	1273.2	1154.0	1126.0	1116.2	1124.4	1161.4	1259.2	1312.6	1292.1	1271.5
35°	1283.9	1230.4	1108.8	1080.8	1072.6	1081.7	1118.6	1216.5	1270.7	1250.2	1222.2
37.5°	1240.3	1185.2	1067.7	1042.2	1027.4	1038.1	1075.1	1172.1	1227.1	1205.8	1171.2
40°	1196.7	1137.5	1021.7	995.4	976.4	992.1	1029.9	1125.2	1177.8	1158.1	1118.6
42.5°	1145.8	1089.9	976.4	939.5	886.0	936.2	981.4	1078.4	1126.9	1108.0	1060.3
45°	1092.3	1038.9	928.8	839.2	700.3	847.4	932.1	1029.1	1067.7	1049.6	997.8
47.5°	1031.5	986.3	880.3	743.8	609.0	752.1	881.9	982.2	1011.8	992.1	934.5
50°	978.1	933.7	829.3	663.3	544.9	672.3	828.5	929.6	954.3	936.2	872.1
52.5°	917.3	878.6	774.3	591.8	497.3	600.8	772.6	875.4	895.1	873.7	809.6
55°	857.3	822.7	715.9	528.5	455.3	536.7	714.3	819.5	835.1	810.4	743.8
57.5°	796.4	765.2	655.9	471.8	416.7	480.8	660.0	761.9	772.6	741.4	680.6
60°	733.2	706.9	595.1	421.6	378.9	429.0	593.4	704.4	711.0	677.3	618.9
62.5°	669.9	646.0	534.3	375.6	340.3	380.6	538.4	643.6	647.7	615.6	555.6
65°	604.9	582.7	475.1	327.1	303.3	335.3	479.2	580.3	584.4	548.2	494.0
67.5°	537.5	519.5	411.8	290.1	267.9	292.6	420.0	516.2	518.6	483.3	434.0
70°	470.1	454.5	355.9	249.9	233.4	250.7	361.6	445.5	450.4	412.6	373.2
72.5°	401.1	388.8	301.6	207.9	193.2	207.9	304.9	380.6	383.8	352.6	314.0
75°	331.2	322.2	246.6	166.9	155.3	166.0	248.2	315.6	315.6	286.0	255.6
77.5°	263.8	257.3	189.0	128.2	120.0	126.6	189.9	249.9	248.2	225.2	201.4
80°	197.3	192.3	135.6	92.9	87.1	90.4	135.6	184.9	184.9	168.5	139.7
82.5°	141.4	135.6	89.6	60.8	57.5	59.2	87.9	129.0	131.5	119.2	94.5
85°	93.7	80.5	48.5	33.7	31.2	32.1	46.0	74.8	82.2	69.0	49.3
87.5°	41.1	27.1	12.3	4.9	2.5	3.3	9.9	23.8	31.2	20.5	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1
2.5°	1537.0	1523.9	1528.8	1532.1	1528.8	1543.6
5°	1535.4	1529.6	1528.8	1532.9	1526.3	1541.1
7.5°	1532.9	1529.6	1528.8	1530.4	1522.2	1536.2
10°	1527.1	1522.2	1523.9	1526.3	1515.6	1528.8
12.5°	1516.5	1511.5	1512.3	1520.6	1505.8	1517.3
15°	1498.4	1492.6	1498.4	1507.4	1494.3	1504.1
17.5°	1474.5	1465.5	1475.4	1489.3	1479.5	1488.5
20°	1444.1	1430.2	1440.8	1466.3	1457.3	1468.8
22.5°	1407.1	1389.9	1400.6	1437.6	1435.1	1447.4
25°	1365.2	1344.7	1359.5	1404.7	1409.6	1421.1
27.5°	1318.4	1295.4	1315.1	1368.5	1380.0	1393.2
30°	1267.4	1242.8	1265.8	1328.2	1345.5	1359.5
32.5°	1214.8	1187.7	1214.0	1283.0	1307.7	1325.8
35°	1159.7	1131.8	1161.4	1236.2	1265.8	1283.9
37.5°	1100.6	1073.4	1105.5	1186.9	1222.2	1240.3
40°	1039.7	1009.3	1045.5	1128.5	1175.4	1196.7
42.5°	977.3	939.5	983.8	1073.4	1124.4	1145.8
45°	907.4	854.8	914.8	1015.1	1068.5	1092.3
47.5°	837.5	784.9	845.8	952.6	1010.1	1031.5
50°	770.1	724.9	773.4	884.4	951.0	978.1
52.5°	708.5	671.5	712.6	817.8	890.1	917.3
55°	651.0	622.2	655.9	752.1	826.0	857.3
57.5°	596.7	578.6	601.7	689.6	766.9	796.4
60°	545.8	533.4	549.9	628.0	697.0	733.2
62.5°	495.6	489.0	501.4	563.0	632.1	669.9
65°	447.1	445.5	452.1	506.3	563.8	604.9
67.5°	398.6	397.8	401.9	446.3	497.3	537.5
70°	350.1	355.1	352.6	381.4	430.7	470.1
72.5°	300.8	308.2	304.1	322.2	369.9	401.1
75°	245.8	255.6	247.4	267.9	297.5	331.2
77.5°	189.0	199.7	189.9	207.9	240.0	263.8
80°	135.6	145.5	137.3	151.2	179.2	197.3
82.5°	85.5	92.9	86.3	100.3	128.2	141.4
85°	37.8	41.9	43.6	54.2	78.9	93.7
87.5°	1.6	0.8	1.6	10.7	27.9	41.1
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)