

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: FAIL-SAFE

Report Number: P520498

Luminaire Tested: **4WSLA-125-L935-UNV-U**

Issue Date: 5/3/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P520498
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: FAIL-SAFE
Catalog Number: 4WSLA-125-L935-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

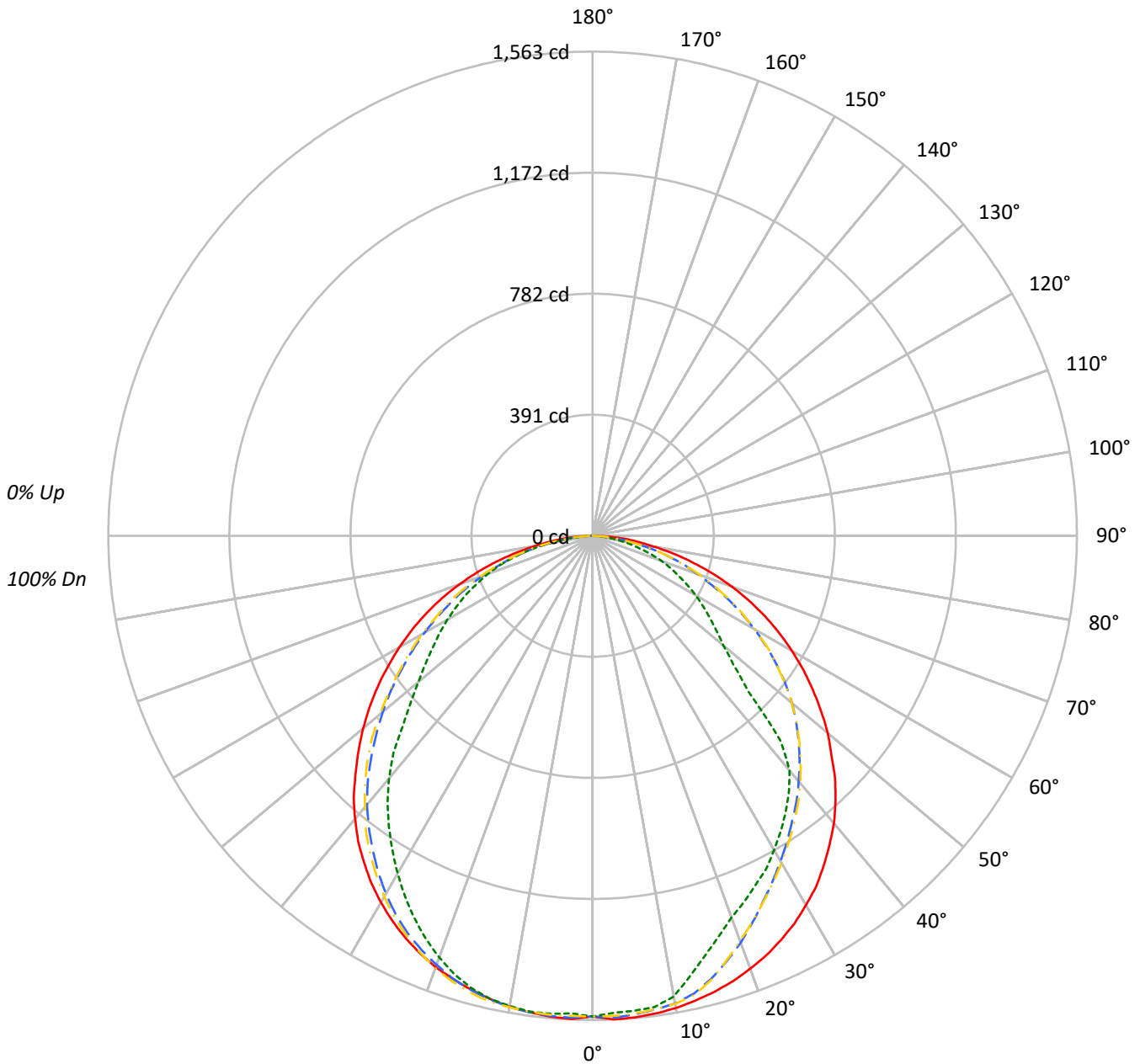
Lumens per Lamp: N/A
Luminaire Lumens: 4162.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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°	8350	8350	8350	8350
5°	8431	8314	8418	8368
10°	8460	8251	8438	8424
15°	8487	7814	8450	8422
20°	8519	7508	8485	8294
25°	8546	7384	8501	8086
30°	8556	7278	8493	7821
35°	8542	7137	8454	7530
40°	8514	6947	8379	7181
45°	8420	5397	8229	6588
50°	8293	4620	8091	6147
55°	8146	4327	7934	5912
60°	7991	4130	7750	5815
65°	7801	3911	7536	5745
70°	7492	3720	7177	5659
75°	6974	3271	6646	5384
80°	6192	2734	5805	4565
85°	5860	1951	5138	2618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	3.5
10°-20°	420.5	10.1
20°-30°	628.3	15.1
30°-40°	747.9	18.0
40°-50°	747.5	18.0
50°-60°	643.3	15.5
60°-70°	484.1	11.6
70°-80°	275.9	6.6
80°-90°	67.2	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°	1196.1	28.7
0°-40°	1944.0	46.7
0°-60°	3334.8	80.1
0°-90°	4162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4162.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1552	1552	1552	1552	1552	
5°	1561	1539	1558	1549	1561	149
15°	1523	1402	1516	1512	1523	430
25°	1439	1244	1432	1362	1439	664
35°	1300	1086	1287	1146	1300	813
45°	1106	709	1081	866	1106	852
55°	868	461	846	630	868	776
65°	613	307	592	451	613	605
75°	335	157	320	259	335	355
85°	95	32	83	42	95	103
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°	1551.5	1551.5	1551.5	1551.5	1551.5	1551.5	1551.5	1551.5	1551.5	1551.5	1551.5
2.5°	1563.1	1549.0	1557.3	1554.8	1541.5	1546.5	1551.5	1546.5	1561.4	1548.1	1557.3
5°	1560.6	1545.6	1550.6	1545.6	1539.0	1540.6	1548.1	1543.1	1558.1	1544.0	1555.6
7.5°	1555.6	1537.3	1542.3	1539.8	1534.0	1534.8	1542.3	1538.1	1551.5	1538.1	1551.5
10°	1548.1	1529.0	1533.1	1522.3	1509.8	1519.0	1534.0	1529.8	1544.0	1529.0	1544.0
12.5°	1536.5	1517.3	1513.2	1477.4	1454.9	1472.4	1518.2	1518.2	1531.5	1517.3	1533.1
15°	1523.2	1502.3	1479.9	1425.8	1402.5	1419.9	1483.2	1504.8	1516.5	1502.3	1518.2
17.5°	1507.3	1483.2	1439.9	1376.7	1355.0	1372.5	1437.4	1484.9	1499.9	1484.9	1499.0
20°	1487.4	1459.1	1397.5	1325.1	1310.9	1326.7	1391.6	1460.7	1481.5	1463.2	1473.2
22.5°	1465.7	1431.6	1350.0	1285.1	1278.5	1288.4	1347.5	1430.8	1458.2	1439.1	1445.8
25°	1439.1	1399.1	1302.6	1248.5	1243.5	1249.3	1304.3	1395.8	1431.6	1411.6	1414.1
27.5°	1410.8	1367.5	1257.6	1217.7	1212.7	1215.2	1261.0	1356.7	1400.8	1380.8	1376.7
30°	1376.7	1330.1	1212.7	1176.1	1171.1	1180.2	1219.4	1316.7	1366.7	1346.7	1334.2
32.5°	1342.5	1289.3	1168.6	1140.3	1130.3	1138.6	1176.1	1275.1	1329.2	1308.4	1287.6
35°	1300.1	1246.0	1122.8	1094.5	1086.2	1095.3	1132.8	1231.8	1286.8	1266.0	1237.7
37.5°	1256.0	1200.2	1081.2	1055.4	1040.4	1051.2	1088.7	1186.9	1242.7	1221.0	1186.1
40°	1211.9	1151.9	1034.6	1007.9	988.8	1004.6	1042.9	1139.5	1192.7	1172.7	1132.8
42.5°	1160.3	1103.7	988.8	951.3	897.2	948.0	993.8	1092.0	1141.1	1122.0	1073.7
45°	1106.2	1052.1	940.5	849.8	709.1	858.1	943.9	1042.1	1081.2	1062.9	1010.4
47.5°	1044.6	998.8	891.4	753.3	616.8	761.6	893.1	994.6	1024.6	1004.6	946.4
50°	990.5	945.5	839.8	671.7	551.8	680.8	839.0	941.4	966.3	948.0	883.1
52.5°	928.9	889.8	784.1	599.3	503.6	608.4	782.4	886.4	906.4	884.8	819.8
55°	868.1	833.2	725.0	535.2	461.1	543.5	723.3	829.8	845.6	820.7	753.3
57.5°	806.5	774.9	664.2	477.8	422.0	486.9	668.4	771.6	782.4	750.8	689.2
60°	742.4	715.8	602.6	427.0	383.7	434.5	600.9	713.3	720.0	685.8	626.7
62.5°	678.3	654.2	541.0	380.4	344.6	385.4	545.2	651.7	655.9	623.4	562.7
65°	612.6	590.1	481.1	331.3	307.1	339.6	485.2	587.6	591.8	555.2	500.2
67.5°	544.3	526.0	417.0	293.8	271.3	296.3	425.3	522.7	525.2	489.4	439.5
70°	476.1	460.3	360.4	253.0	236.4	253.9	366.2	451.1	456.1	417.8	377.9
72.5°	406.2	393.7	305.5	210.6	195.6	210.6	308.8	385.4	388.7	357.1	317.9
75°	335.4	326.3	249.7	169.0	157.3	168.1	251.4	319.6	319.6	289.6	258.9
77.5°	267.2	260.5	191.4	129.8	121.5	128.2	192.3	253.0	251.4	228.1	203.9
80°	199.8	194.8	137.3	94.1	88.2	91.6	137.3	187.3	187.3	170.6	141.5
82.5°	143.2	137.3	90.7	61.6	58.3	59.9	89.1	130.7	133.2	120.7	95.7
85°	94.9	81.6	49.1	34.1	31.6	32.5	46.6	75.7	83.2	69.9	49.9
87.5°	41.6	27.5	12.5	5.0	2.5	3.3	10.0	24.1	31.6	20.8	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



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1551.5	1551.5	1551.5	1551.5	1551.5	1551.5
2.5°	1556.5	1543.1	1548.1	1551.5	1548.1	1563.1
5°	1554.8	1549.0	1548.1	1552.3	1545.6	1560.6
7.5°	1552.3	1549.0	1548.1	1549.8	1541.5	1555.6
10°	1546.5	1541.5	1543.1	1545.6	1534.8	1548.1
12.5°	1535.6	1530.6	1531.5	1539.8	1524.8	1536.5
15°	1517.3	1511.5	1517.3	1526.5	1513.2	1523.2
17.5°	1493.2	1484.0	1494.0	1508.2	1498.2	1507.3
20°	1462.4	1448.2	1459.1	1484.9	1475.7	1487.4
22.5°	1424.9	1407.5	1418.3	1455.7	1453.2	1465.7
25°	1382.5	1361.7	1376.7	1422.4	1427.4	1439.1
27.5°	1335.1	1311.7	1331.7	1385.8	1397.5	1410.8
30°	1283.4	1258.5	1281.8	1345.0	1362.5	1376.7
32.5°	1230.2	1202.7	1229.3	1299.3	1324.2	1342.5
35°	1174.4	1146.1	1176.1	1251.8	1281.8	1300.1
37.5°	1114.5	1087.0	1119.5	1201.9	1237.7	1256.0
40°	1052.9	1022.1	1058.7	1142.8	1190.2	1211.9
42.5°	989.6	951.3	996.3	1087.0	1138.6	1160.3
45°	918.9	865.6	926.4	1027.9	1082.0	1106.2
47.5°	848.1	794.9	856.5	964.7	1022.9	1044.6
50°	779.9	734.1	783.2	895.6	963.0	990.5
52.5°	717.5	680.0	721.6	828.2	901.4	928.9
55°	659.2	630.1	664.2	761.6	836.5	868.1
57.5°	604.3	586.0	609.3	698.3	776.6	806.5
60°	552.7	540.2	556.8	635.9	705.8	742.4
62.5°	501.9	495.2	507.7	570.1	640.1	678.3
65°	452.8	451.1	457.8	512.7	571.0	612.6
67.5°	403.7	402.8	407.0	452.0	503.6	544.3
70°	354.6	359.6	357.1	386.2	436.1	476.1
72.5°	304.6	312.1	308.0	326.3	374.5	406.2
75°	248.9	258.9	250.5	271.3	301.3	335.4
77.5°	191.4	202.3	192.3	210.6	243.0	267.2
80°	137.3	147.3	139.0	153.1	181.4	199.8
82.5°	86.6	94.1	87.4	101.5	129.8	143.2
85°	38.3	42.4	44.1	54.9	79.9	94.9
87.5°	1.7	0.8	1.7	10.8	28.3	41.6
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)