

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: P520501

Luminaire Tested: **4WSLA-125-L940-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: P520501  
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-L940-UNV-U  
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

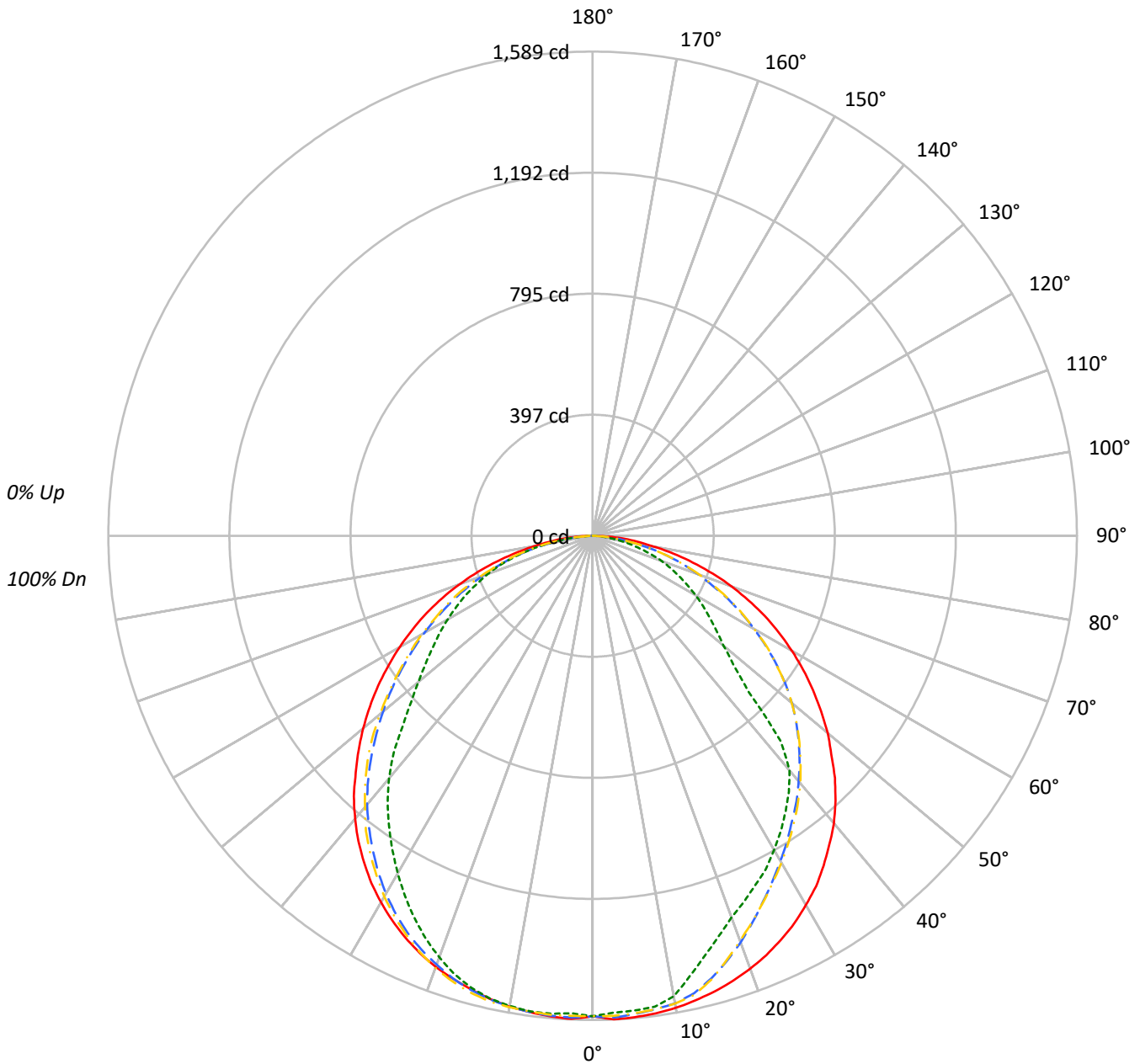
Lumens per Lamp: N/A  
Luminaire Lumens: 4230.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.8  
Input Voltage (V): NR  
Input Current (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: 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									
RC	80									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°	8486	8486	8486	8486
5°	8569	8450	8555	8505
10°	8599	8386	8576	8562
15°	8625	7942	8588	8559
20°	8658	7631	8624	8430
25°	8685	7505	8640	8218
30°	8695	7397	8632	7948
35°	8681	7253	8592	7653
40°	8653	7061	8516	7298
45°	8557	5485	8364	6696
50°	8429	4695	8223	6247
55°	8279	4397	8065	6009
60°	8122	4198	7876	5909
65°	7929	3975	7660	5839
70°	7615	3780	7295	5750
75°	7089	3325	6754	5471
80°	6292	2780	5898	4640
85°	5953	1982	5224	2661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.8	3.5
10°-20°	427.3	10.1
20°-30°	638.5	15.1
30°-40°	760.1	18.0
40°-50°	759.8	18.0
50°-60°	653.8	15.5
60°-70°	492.1	11.6
70°-80°	280.4	6.6
80°-90°	68.2	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°	1215.7	28.7
0°-40°	1975.8	46.7
0°-60°	3389.3	80.1
0°-90°	4230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4230.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1577	1577	1577	1577	1577	
5°	1586	1564	1584	1574	1586	151
15°	1548	1425	1541	1536	1548	437
25°	1463	1264	1455	1384	1463	674
35°	1321	1104	1308	1165	1321	827
45°	1124	721	1099	880	1124	866
55°	882	469	860	640	882	789
65°	623	312	602	458	623	615
75°	341	160	325	263	341	361
85°	96	32	85	43	96	105
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°	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8
2.5°	1588.6	1574.3	1582.7	1580.2	1566.7	1571.7	1576.8	1571.7	1587.0	1573.4	1582.7
5°	1586.1	1570.9	1576.0	1570.9	1564.1	1565.8	1573.4	1568.3	1583.6	1569.2	1581.0
7.5°	1581.0	1562.4	1567.5	1565.0	1559.0	1559.9	1567.5	1563.3	1576.8	1563.3	1576.8
10°	1573.4	1554.0	1558.2	1547.2	1534.5	1543.8	1559.0	1554.8	1569.2	1554.0	1569.2
12.5°	1561.6	1542.1	1537.9	1501.5	1478.7	1496.4	1543.0	1543.0	1556.5	1542.1	1558.2
15°	1548.0	1526.9	1504.1	1449.1	1425.4	1443.1	1507.4	1529.4	1541.3	1526.9	1543.0
17.5°	1532.0	1507.4	1463.5	1399.2	1377.2	1394.9	1460.9	1509.1	1524.4	1509.1	1523.5
20°	1511.7	1482.9	1420.3	1346.7	1332.3	1348.4	1414.4	1484.6	1505.7	1487.1	1497.3
22.5°	1489.7	1455.0	1372.1	1306.1	1299.3	1309.5	1369.6	1454.1	1482.1	1462.6	1469.4
25°	1462.6	1422.0	1323.9	1268.9	1263.8	1269.7	1325.6	1418.6	1455.0	1434.7	1437.2
27.5°	1433.8	1389.9	1278.2	1237.6	1232.5	1235.1	1281.6	1378.9	1423.7	1403.4	1399.2
30°	1399.2	1351.8	1232.5	1195.3	1190.2	1199.5	1239.3	1338.3	1389.0	1368.7	1356.0
32.5°	1364.5	1310.3	1187.7	1158.9	1148.8	1157.2	1195.3	1296.0	1350.9	1329.8	1308.6
35°	1321.3	1266.3	1141.2	1112.4	1103.9	1113.2	1151.3	1252.0	1307.8	1286.7	1257.9
37.5°	1276.5	1219.8	1098.9	1072.6	1057.4	1068.4	1106.5	1206.3	1263.0	1241.0	1205.4
40°	1231.7	1170.8	1051.5	1024.4	1005.0	1021.0	1059.9	1158.1	1212.2	1191.9	1151.3
42.5°	1179.2	1121.7	1005.0	966.9	911.9	963.5	1010.0	1109.9	1159.8	1140.3	1091.2
45°	1124.2	1069.2	955.9	863.7	720.7	872.1	959.3	1059.1	1098.9	1080.2	1027.0
47.5°	1061.6	1015.1	906.0	765.6	626.8	774.0	907.7	1010.9	1041.3	1021.0	961.8
50°	1006.7	961.0	853.5	682.7	560.8	692.0	852.7	956.7	982.1	963.5	897.5
52.5°	944.1	904.3	796.9	609.1	511.8	618.4	795.2	900.9	921.2	899.2	833.2
55°	882.3	846.8	736.8	543.9	468.6	552.4	735.1	843.4	859.5	834.1	765.6
57.5°	819.7	787.6	675.0	485.6	428.9	494.9	679.3	784.2	795.2	763.0	700.4
60°	754.6	727.5	612.4	434.0	390.0	441.6	610.8	725.0	731.7	697.0	637.0
62.5°	689.4	664.9	549.9	386.6	350.2	391.7	554.1	662.4	666.6	633.6	571.8
65°	622.6	599.8	488.9	336.7	312.1	345.1	493.2	597.2	601.5	564.2	508.4
67.5°	553.2	534.6	423.8	298.6	275.8	301.1	432.3	531.2	533.8	497.4	446.6
70°	483.9	467.8	366.3	257.2	240.2	258.0	372.2	458.5	463.6	424.7	384.0
72.5°	412.8	400.1	310.5	214.0	198.8	214.0	313.8	391.7	395.0	362.9	323.1
75°	340.9	331.6	253.8	171.7	159.9	170.9	255.5	324.8	324.8	294.4	263.1
77.5°	271.5	264.8	194.6	132.0	123.5	130.3	195.4	257.2	255.5	231.8	207.3
80°	203.0	197.9	139.6	95.6	89.7	93.1	139.6	190.3	190.3	173.4	143.8
82.5°	145.5	139.6	92.2	62.6	59.2	60.9	90.5	132.8	135.3	122.7	97.3
85°	96.4	82.9	49.9	34.7	32.1	33.0	47.4	77.0	84.6	71.1	50.8
87.5°	42.3	27.9	12.7	5.1	2.5	3.4	10.2	24.5	32.1	21.1	6.8
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°	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8
2.5°	1581.9	1568.3	1573.4	1576.8	1573.4	1588.6
5°	1580.2	1574.3	1573.4	1577.7	1570.9	1586.1
7.5°	1577.7	1574.3	1573.4	1575.1	1566.7	1581.0
10°	1571.7	1566.7	1568.3	1570.9	1559.9	1573.4
12.5°	1560.7	1555.7	1556.5	1565.0	1549.7	1561.6
15°	1542.1	1536.2	1542.1	1551.4	1537.9	1548.0
17.5°	1517.6	1508.3	1518.4	1532.8	1522.7	1532.0
20°	1486.3	1471.9	1482.9	1509.1	1499.8	1511.7
22.5°	1448.2	1430.5	1441.5	1479.5	1477.0	1489.7
25°	1405.1	1383.9	1399.2	1445.7	1450.8	1462.6
27.5°	1356.9	1333.2	1353.5	1408.5	1420.3	1433.8
30°	1304.4	1279.0	1302.7	1367.0	1384.8	1399.2
32.5°	1250.3	1222.4	1249.4	1320.5	1345.9	1364.5
35°	1193.6	1164.8	1195.3	1272.3	1302.7	1321.3
37.5°	1132.7	1104.8	1137.8	1221.5	1257.9	1276.5
40°	1070.1	1038.8	1076.0	1161.5	1209.7	1231.7
42.5°	1005.8	966.9	1012.6	1104.8	1157.2	1179.2
45°	933.9	879.8	941.5	1044.7	1099.7	1124.2
47.5°	862.0	807.9	870.5	980.4	1039.6	1061.6
50°	792.6	746.1	796.0	910.2	978.7	1006.7
52.5°	729.2	691.1	733.4	841.7	916.1	944.1
55°	670.0	640.4	675.0	774.0	850.2	882.3
57.5°	614.1	595.5	619.2	709.7	789.2	819.7
60°	561.7	549.0	565.9	646.3	717.3	754.6
62.5°	510.1	503.3	516.0	579.5	650.5	689.4
65°	460.2	458.5	465.3	521.1	580.3	622.6
67.5°	410.3	409.4	413.7	459.3	511.8	553.2
70°	360.4	365.4	362.9	392.5	443.3	483.9
72.5°	309.6	317.2	313.0	331.6	380.7	412.8
75°	252.9	263.1	254.6	275.8	306.2	340.9
77.5°	194.6	205.6	195.4	214.0	247.0	271.5
80°	139.6	149.7	141.3	155.7	184.4	203.0
82.5°	88.0	95.6	88.8	103.2	132.0	145.5
85°	38.9	43.1	44.8	55.8	81.2	96.4
87.5°	1.7	0.8	1.7	11.0	28.8	42.3
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)