

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: P520504

Luminaire Tested: **4WSLA-125-L950-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: P520504
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-L950-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

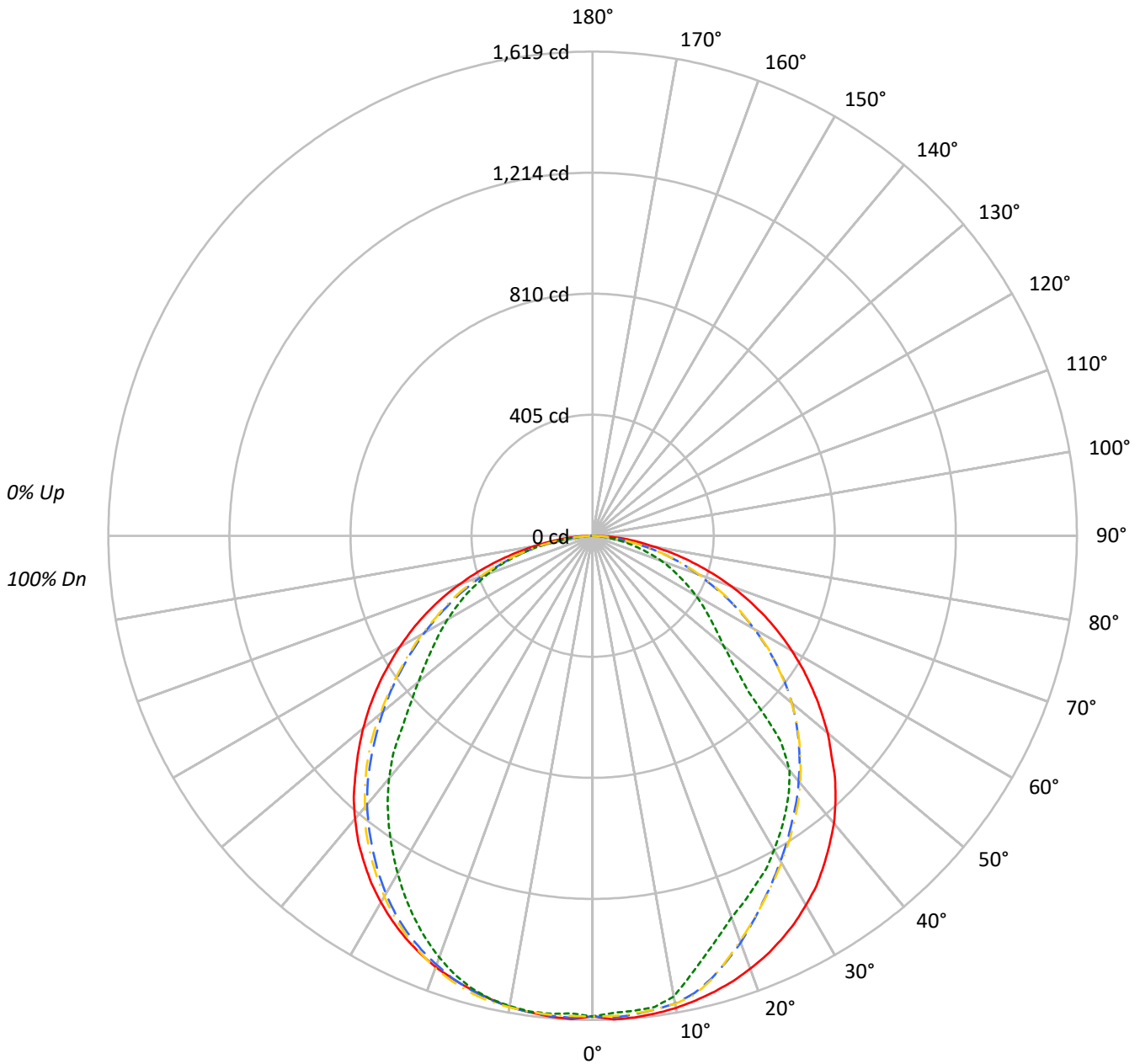
Lumens per Lamp: N/A
Luminaire Lumens: 4311.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	8649	8649	8649	8649
5°	8733	8612	8719	8668
10°	8763	8547	8740	8726
15°	8791	8094	8752	8723
20°	8824	7777	8789	8592
25°	8852	7649	8806	8375
30°	8862	7538	8797	8101
35°	8847	7392	8757	7799
40°	8819	7196	8679	7438
45°	8721	5590	8524	6824
50°	8590	4786	8380	6367
55°	8437	4481	8219	6123
60°	8277	4278	8027	6022
65°	8080	4051	7806	5951
70°	7759	3852	7434	5860
75°	7224	3387	6885	5575
80°	6413	2833	6013	4730
85°	6070	2025	5323	2717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	3.5
10°-20°	435.5	10.1
20°-30°	650.8	15.1
30°-40°	774.6	18.0
40°-50°	774.3	18.0
50°-60°	666.3	15.5
60°-70°	501.5	11.6
70°-80°	285.8	6.6
80°-90°	69.6	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°	1239.0	28.7
0°-40°	2013.6	46.7
0°-60°	3454.2	80.1
0°-90°	4311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4311.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1607	1607	1607	1607	1607	
5°	1616	1594	1614	1604	1616	154
15°	1578	1453	1571	1566	1578	446
25°	1491	1288	1483	1410	1491	687
35°	1347	1125	1333	1187	1347	843
45°	1146	734	1120	897	1146	882
55°	899	478	876	653	899	804
65°	634	318	613	467	634	627
75°	347	163	331	268	347	368
85°	98	33	86	44	98	107
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°	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0
2.5°	1619.1	1604.4	1613.0	1610.4	1596.7	1601.8	1607.0	1601.8	1617.3	1603.5	1613.0
5°	1616.5	1601.0	1606.1	1601.0	1594.1	1595.8	1603.5	1598.4	1613.9	1599.2	1611.3
7.5°	1611.3	1592.3	1597.5	1594.9	1588.9	1589.8	1597.5	1593.2	1607.0	1593.2	1607.0
10°	1603.5	1583.7	1588.0	1576.8	1563.9	1573.4	1588.9	1584.6	1599.2	1583.7	1599.2
12.5°	1591.5	1571.7	1567.3	1530.3	1507.0	1525.1	1572.5	1572.5	1586.3	1571.7	1588.0
15°	1577.7	1556.1	1532.9	1476.8	1452.7	1470.8	1536.3	1558.7	1570.8	1556.1	1572.5
17.5°	1561.3	1536.3	1491.5	1426.0	1403.5	1421.6	1488.9	1538.0	1553.5	1538.0	1552.7
20°	1540.6	1511.3	1447.5	1372.5	1357.8	1374.2	1441.5	1513.0	1534.6	1515.6	1526.0
22.5°	1518.2	1482.9	1398.4	1331.1	1324.2	1334.6	1395.8	1482.0	1510.4	1490.6	1497.5
25°	1490.6	1449.2	1349.2	1293.2	1288.0	1294.0	1350.9	1445.8	1482.9	1462.2	1464.7
27.5°	1461.3	1416.5	1302.7	1261.3	1256.1	1258.7	1306.1	1405.3	1451.0	1430.3	1426.0
30°	1426.0	1377.7	1256.1	1218.2	1213.0	1222.5	1263.0	1363.9	1415.6	1394.9	1382.0
32.5°	1390.6	1335.4	1210.4	1181.1	1170.8	1179.4	1218.2	1320.8	1376.8	1355.3	1333.7
35°	1346.6	1290.6	1163.0	1133.7	1125.1	1134.6	1173.4	1275.9	1332.8	1311.3	1282.0
37.5°	1300.9	1243.2	1119.9	1093.2	1077.7	1088.9	1127.7	1229.4	1287.2	1264.7	1228.5
40°	1255.3	1193.2	1071.6	1044.0	1024.2	1040.6	1080.2	1180.2	1235.4	1214.7	1173.4
42.5°	1201.8	1143.2	1024.2	985.4	929.4	982.0	1029.4	1131.1	1182.0	1162.1	1112.1
45°	1145.8	1089.7	974.2	880.2	734.5	888.8	977.6	1079.4	1119.9	1100.9	1046.6
47.5°	1082.0	1034.5	923.3	780.2	638.8	788.8	925.1	1030.2	1061.3	1040.6	980.2
50°	1025.9	979.4	869.9	695.7	571.6	705.2	869.0	975.1	1000.9	982.0	914.7
52.5°	962.1	921.6	812.1	620.7	521.6	630.2	810.4	918.2	938.9	916.4	849.2
55°	899.2	863.0	750.9	554.3	477.6	563.0	749.2	859.5	875.9	850.1	780.2
57.5°	835.4	802.6	688.0	494.9	437.1	504.3	692.3	799.2	810.4	777.6	713.8
60°	769.0	741.4	624.2	442.3	397.4	450.0	622.5	738.8	745.7	710.4	649.2
62.5°	702.6	677.6	560.4	394.0	356.9	399.2	564.7	675.0	679.4	645.7	582.8
65°	634.5	611.2	498.3	343.1	318.1	351.7	502.6	608.7	613.0	575.0	518.1
67.5°	563.8	544.9	431.9	304.3	281.1	306.9	440.5	541.4	544.0	506.9	455.2
70°	493.1	476.8	373.3	262.1	244.8	262.9	379.3	467.3	472.4	432.8	391.4
72.5°	420.7	407.8	316.4	218.1	202.6	218.1	319.8	399.2	402.6	369.9	329.3
75°	347.4	338.0	258.6	175.0	162.9	174.1	260.4	331.1	331.1	300.0	268.1
77.5°	276.7	269.8	198.3	134.5	125.9	132.8	199.2	262.1	260.4	236.2	211.2
80°	206.9	201.7	142.3	97.4	91.4	94.8	142.3	194.0	194.0	176.7	146.6
82.5°	148.3	142.3	94.0	63.8	60.3	62.1	92.2	135.4	137.9	125.0	99.1
85°	98.3	84.5	50.9	35.3	32.8	33.6	48.3	78.5	86.2	72.4	51.7
87.5°	43.1	28.5	12.9	5.2	2.6	3.4	10.3	25.0	32.8	21.6	6.9
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°	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0
2.5°	1612.2	1598.4	1603.5	1607.0	1603.5	1619.1
5°	1610.4	1604.4	1603.5	1607.9	1601.0	1616.5
7.5°	1607.9	1604.4	1603.5	1605.3	1596.7	1611.3
10°	1601.8	1596.7	1598.4	1601.0	1589.8	1603.5
12.5°	1590.6	1585.4	1586.3	1594.9	1579.4	1591.5
15°	1571.7	1565.6	1571.7	1581.1	1567.3	1577.7
17.5°	1546.6	1537.2	1547.5	1562.2	1551.8	1561.3
20°	1514.8	1500.1	1511.3	1538.0	1528.5	1540.6
22.5°	1476.0	1457.9	1469.1	1507.9	1505.3	1518.2
25°	1432.0	1410.4	1426.0	1473.4	1478.5	1490.6
27.5°	1382.8	1358.7	1379.4	1435.4	1447.5	1461.3
30°	1329.4	1303.5	1327.7	1393.2	1411.3	1426.0
32.5°	1274.2	1245.8	1273.4	1345.8	1371.6	1390.6
35°	1216.5	1187.1	1218.2	1296.6	1327.7	1346.6
37.5°	1154.4	1125.9	1159.6	1244.9	1282.0	1300.9
40°	1090.6	1058.7	1096.6	1183.7	1232.8	1255.3
42.5°	1025.1	985.4	1032.0	1125.9	1179.4	1201.8
45°	951.8	896.6	959.5	1064.7	1120.8	1145.8
47.5°	878.5	823.3	887.1	999.2	1059.5	1082.0
50°	807.8	760.4	811.3	927.6	997.5	1025.9
52.5°	743.2	704.4	747.5	857.8	933.7	962.1
55°	682.8	652.6	688.0	788.8	866.4	899.2
57.5°	625.9	606.9	631.1	723.3	804.4	835.4
60°	572.5	559.5	576.8	658.7	731.1	769.0
62.5°	519.9	513.0	525.9	590.6	663.0	702.6
65°	469.0	467.3	474.2	531.1	591.4	634.5
67.5°	418.1	417.3	421.6	468.1	521.6	563.8
70°	367.3	372.4	369.9	400.0	451.8	493.1
72.5°	315.5	323.3	319.0	338.0	388.0	420.7
75°	257.8	268.1	259.5	281.1	312.1	347.4
77.5°	198.3	209.5	199.2	218.1	251.7	276.7
80°	142.3	152.6	144.0	158.6	187.9	206.9
82.5°	89.7	97.4	90.5	105.2	134.5	148.3
85°	39.7	44.0	45.7	56.9	82.8	98.3
87.5°	1.7	0.9	1.7	11.2	29.3	43.1
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)