

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: P520495

Luminaire Tested: **4WSLA-125-L930-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: P520495
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-L930-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

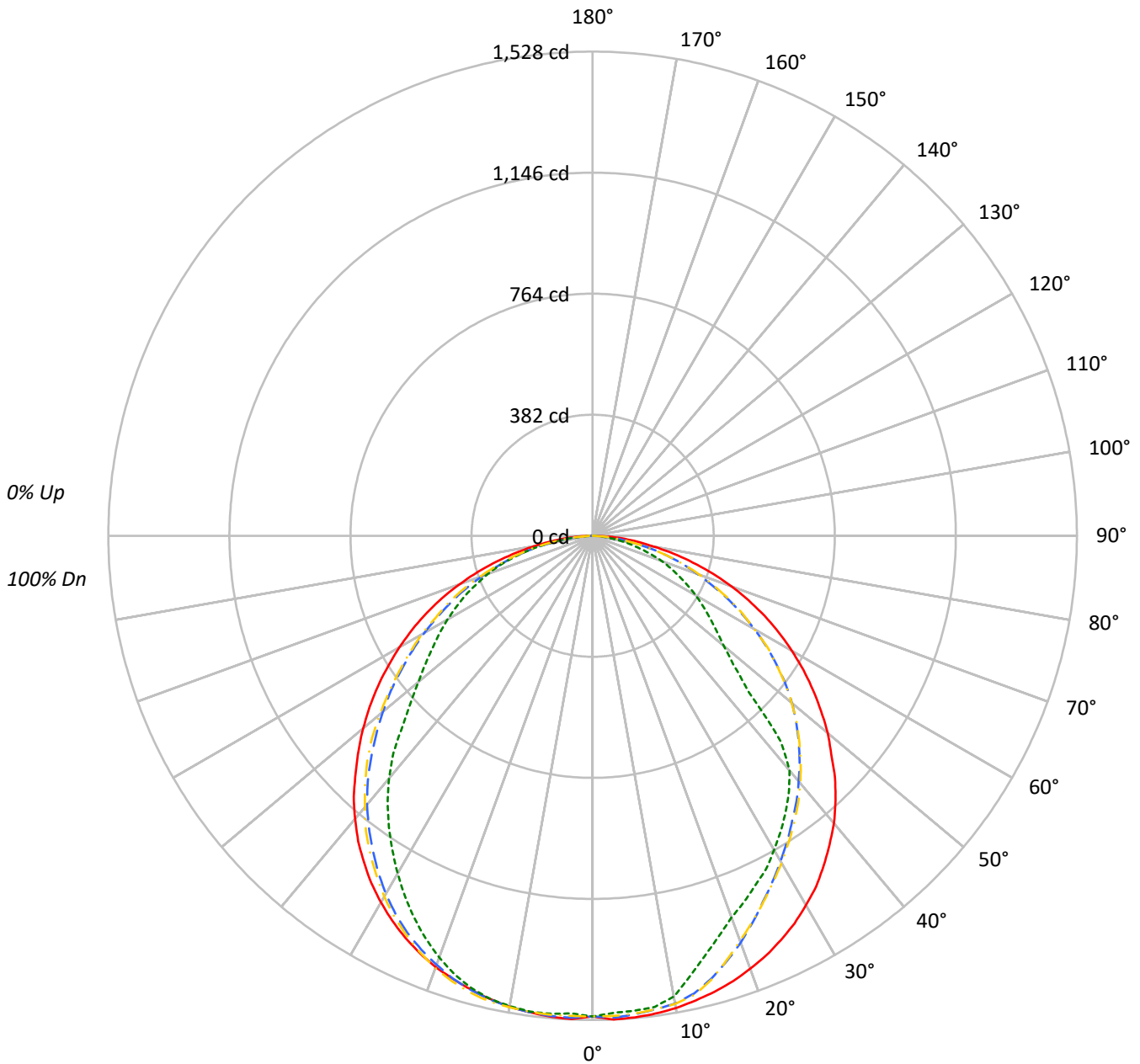
Lumens per Lamp: N/A
Luminaire Lumens: 4069.0 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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									
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°	8163	8163	8163	8163
5°	8243	8129	8230	8181
10°	8271	8067	8249	8236
15°	8297	7640	8261	8233
20°	8328	7340	8296	8109
25°	8355	7219	8311	7906
30°	8364	7115	8303	7646
35°	8351	6977	8265	7362
40°	8324	6792	8193	7021
45°	8231	5277	8045	6441
50°	8107	4517	7910	6009
55°	7963	4230	7757	5780
60°	7812	4038	7577	5684
65°	7627	3824	7368	5616
70°	7325	3637	7017	5531
75°	6818	3198	6498	5263
80°	6053	2675	5675	4463
85°	5730	1908	5027	2563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	3.5
10°-20°	411.1	10.1
20°-30°	614.2	15.1
30°-40°	731.2	18.0
40°-50°	730.8	18.0
50°-60°	628.9	15.5
60°-70°	473.3	11.6
70°-80°	269.7	6.6
80°-90°	65.7	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°	1169.4	28.7
0°-40°	1900.6	46.7
0°-60°	3260.3	80.1
0°-90°	4069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4069.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1517	1517	1517	1517	1517	
5°	1526	1505	1523	1514	1526	145
15°	1489	1371	1483	1478	1489	421
25°	1407	1216	1400	1331	1407	649
35°	1271	1062	1258	1120	1271	795
45°	1081	693	1057	846	1081	833
55°	849	451	827	616	849	759
65°	599	300	579	441	599	591
75°	328	154	312	253	328	347
85°	93	31	81	42	93	101
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°	1516.8	1516.8	1516.8	1516.8	1516.8	1516.8	1516.8	1516.8	1516.8	1516.8	1516.8
2.5°	1528.2	1514.3	1522.5	1520.0	1507.0	1511.9	1516.8	1511.9	1526.6	1513.5	1522.5
5°	1525.7	1511.1	1516.0	1511.1	1504.6	1506.2	1513.5	1508.7	1523.3	1509.5	1520.9
7.5°	1520.9	1503.0	1507.8	1505.4	1499.7	1500.5	1507.8	1503.8	1516.8	1503.8	1516.8
10°	1513.5	1494.8	1498.9	1488.3	1476.1	1485.1	1499.7	1495.6	1509.5	1494.8	1509.5
12.5°	1502.1	1483.4	1479.4	1444.4	1422.4	1439.5	1484.2	1484.2	1497.3	1483.4	1498.9
15°	1489.1	1468.8	1446.8	1393.9	1371.1	1388.2	1450.1	1471.2	1482.6	1468.8	1484.2
17.5°	1473.7	1450.1	1407.7	1345.9	1324.7	1341.8	1405.3	1451.7	1466.3	1451.7	1465.5
20°	1454.1	1426.5	1366.2	1295.5	1281.6	1297.1	1360.6	1428.1	1448.4	1430.5	1440.3
22.5°	1433.0	1399.6	1319.9	1256.4	1249.9	1259.7	1317.4	1398.8	1425.7	1406.9	1413.4
25°	1406.9	1367.9	1273.5	1220.6	1215.7	1221.4	1275.1	1364.6	1399.6	1380.1	1382.5
27.5°	1379.3	1337.0	1229.5	1190.5	1185.6	1188.0	1232.8	1326.4	1369.5	1350.0	1345.9
30°	1345.9	1300.3	1185.6	1149.8	1144.9	1153.9	1192.1	1287.3	1336.1	1316.6	1304.4
32.5°	1312.5	1260.5	1142.5	1114.8	1105.0	1113.2	1149.8	1246.6	1299.5	1279.2	1258.8
35°	1271.0	1218.2	1097.7	1070.1	1061.9	1070.9	1107.5	1204.3	1258.0	1237.7	1210.0
37.5°	1227.9	1173.4	1057.0	1031.8	1017.2	1027.7	1064.4	1160.4	1214.9	1193.7	1159.6
40°	1184.8	1126.2	1011.5	985.4	966.7	982.2	1019.6	1114.0	1166.1	1146.5	1107.5
42.5°	1134.3	1079.0	966.7	930.1	877.2	926.8	971.6	1067.6	1115.6	1096.9	1049.7
45°	1081.4	1028.6	919.5	830.8	693.3	839.0	922.8	1018.8	1057.0	1039.1	987.9
47.5°	1021.2	976.5	871.5	736.4	603.0	744.6	873.1	972.4	1001.7	982.2	925.2
50°	968.3	924.4	821.1	656.7	539.5	665.6	820.2	920.3	944.7	926.8	863.4
52.5°	908.1	869.9	766.5	585.9	492.3	594.8	764.9	866.6	886.1	865.0	801.5
55°	848.7	814.5	708.8	523.2	450.8	531.4	707.1	811.3	826.7	802.3	736.4
57.5°	788.5	757.6	649.4	467.1	412.6	476.0	653.4	754.3	764.9	734.0	673.8
60°	725.8	699.8	589.1	417.4	375.1	424.8	587.5	697.4	703.9	670.5	612.7
62.5°	663.2	639.6	528.9	371.9	336.9	376.8	533.0	637.1	641.2	609.5	550.1
65°	598.9	576.9	470.3	323.9	300.3	332.0	474.4	574.5	578.6	542.8	489.1
67.5°	532.2	514.3	407.7	287.2	265.3	289.7	415.8	511.0	513.5	478.5	429.6
70°	465.5	450.0	352.3	247.4	231.1	248.2	358.0	441.0	445.9	408.5	369.4
72.5°	397.1	384.9	298.6	205.9	191.2	205.9	301.9	376.8	380.0	349.1	310.8
75°	327.9	319.0	244.1	165.2	153.8	164.4	245.7	312.5	312.5	283.2	253.1
77.5°	261.2	254.7	187.2	126.9	118.8	125.3	188.0	247.4	245.7	223.0	199.4
80°	195.3	190.4	134.3	92.0	86.3	89.5	134.3	183.1	183.1	166.8	138.3
82.5°	140.0	134.3	88.7	60.2	57.0	58.6	87.1	127.8	130.2	118.0	93.6
85°	92.8	79.7	48.0	33.4	30.9	31.7	45.6	74.0	81.4	68.4	48.8
87.5°	40.7	26.9	12.2	4.9	2.4	3.3	9.8	23.6	30.9	20.3	6.5
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°	1516.8	1516.8	1516.8	1516.8	1516.8	1516.8
2.5°	1521.7	1508.7	1513.5	1516.8	1513.5	1528.2
5°	1520.0	1514.3	1513.5	1517.6	1511.1	1525.7
7.5°	1517.6	1514.3	1513.5	1515.2	1507.0	1520.9
10°	1511.9	1507.0	1508.7	1511.1	1500.5	1513.5
12.5°	1501.3	1496.4	1497.3	1505.4	1490.7	1502.1
15°	1483.4	1477.7	1483.4	1492.4	1479.4	1489.1
17.5°	1459.8	1450.9	1460.6	1474.5	1464.7	1473.7
20°	1429.7	1415.9	1426.5	1451.7	1442.7	1454.1
22.5°	1393.1	1376.0	1386.6	1423.2	1420.8	1433.0
25°	1351.6	1331.3	1345.9	1390.7	1395.5	1406.9
27.5°	1305.2	1282.4	1302.0	1354.9	1366.2	1379.3
30°	1254.8	1230.4	1253.1	1315.0	1332.1	1345.9
32.5°	1202.7	1175.8	1201.9	1270.2	1294.6	1312.5
35°	1148.2	1120.5	1149.8	1223.8	1253.1	1271.0
37.5°	1089.6	1062.7	1094.5	1175.0	1210.0	1227.9
40°	1029.4	999.3	1035.1	1117.2	1163.6	1184.8
42.5°	967.5	930.1	974.0	1062.7	1113.2	1134.3
45°	898.4	846.3	905.7	1005.0	1057.8	1081.4
47.5°	829.2	777.1	837.3	943.1	1000.1	1021.2
50°	762.5	717.7	765.7	875.6	941.5	968.3
52.5°	701.4	664.8	705.5	809.7	881.3	908.1
55°	644.5	616.0	649.4	744.6	817.8	848.7
57.5°	590.8	572.9	595.6	682.7	759.2	788.5
60°	540.3	528.1	544.4	621.7	690.0	725.8
62.5°	490.7	484.2	496.4	557.4	625.8	663.2
65°	442.7	441.0	447.6	501.3	558.2	598.9
67.5°	394.7	393.8	397.9	441.9	492.3	532.2
70°	346.6	351.5	349.1	377.6	426.4	465.5
72.5°	297.8	305.1	301.1	319.0	366.2	397.1
75°	243.3	253.1	244.9	265.3	294.6	327.9
77.5°	187.2	197.7	188.0	205.9	237.6	261.2
80°	134.3	144.0	135.9	149.7	177.4	195.3
82.5°	84.6	92.0	85.4	99.3	126.9	140.0
85°	37.4	41.5	43.1	53.7	78.1	92.8
87.5°	1.6	0.8	1.6	10.6	27.7	40.7
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)