

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: P520483

Luminaire Tested: **4WSLA-125-L830-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: P520483
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-L830-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

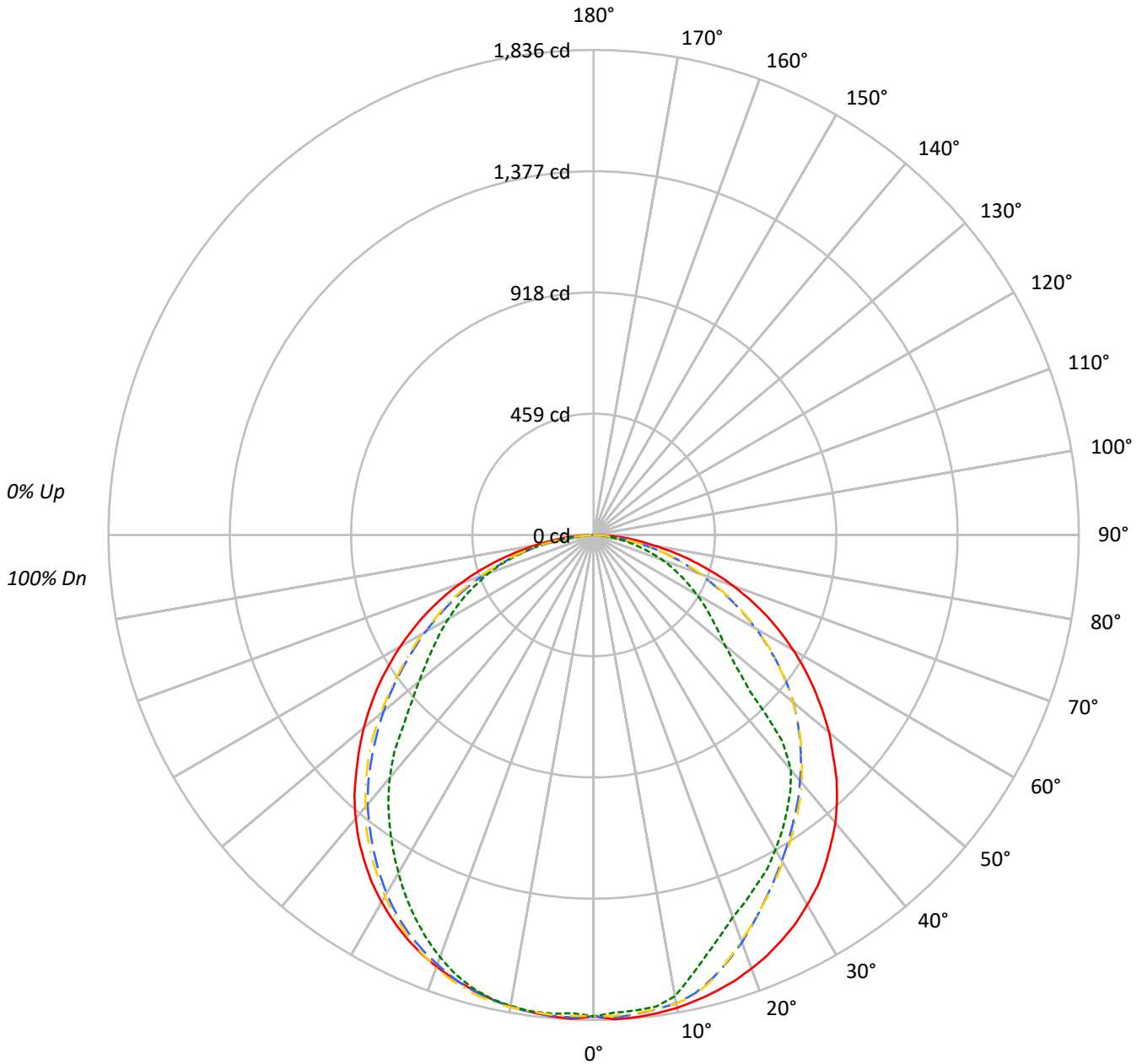
Lumens per Lamp: N/A
Luminaire Lumens: 4888.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
Input Voltage (V): NR
Input Current (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°	9806	9806	9806	9806
5°	9902	9765	9886	9828
10°	9936	9691	9910	9894
15°	9967	9177	9923	9891
20°	10005	8818	9966	9742
25°	10036	8672	9984	9497
30°	10048	8547	9975	9185
35°	10032	8382	9929	8843
40°	10000	8159	9842	8434
45°	9888	6339	9665	7738
50°	9739	5426	9502	7219
55°	9566	5081	9319	6944
60°	9385	4850	9101	6829
65°	9161	4593	8851	6747
70°	8798	4368	8430	6645
75°	8191	3843	7806	6321
80°	7271	3211	6815	5362
85°	6879	2291	6039	3081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	3.5
10°-20°	493.8	10.1
20°-30°	737.9	15.1
30°-40°	878.3	18.0
40°-50°	877.9	18.0
50°-60°	755.5	15.5
60°-70°	568.6	11.6
70°-80°	324.0	6.6
80°-90°	78.9	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°	1404.8	28.7
0°-40°	2283.1	46.7
0°-60°	3916.5	80.1
0°-90°	4888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4888.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1822	1822	1822	1822	1822	
5°	1833	1807	1830	1819	1833	174
15°	1789	1647	1781	1775	1789	505
25°	1690	1460	1681	1599	1690	779
35°	1527	1276	1511	1346	1527	955
45°	1299	833	1270	1017	1299	1000
55°	1020	542	993	740	1020	912
65°	719	361	695	530	719	710
75°	394	185	375	304	394	417
85°	111	37	98	50	111	121
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°	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1
2.5°	1835.8	1819.2	1828.9	1826.0	1810.4	1816.2	1822.1	1816.2	1833.8	1818.2	1828.9
5°	1832.8	1815.2	1821.1	1815.2	1807.4	1809.4	1818.2	1812.3	1829.9	1813.3	1827.0
7.5°	1827.0	1805.5	1811.3	1808.4	1801.6	1802.5	1811.3	1806.4	1822.1	1806.4	1822.1
10°	1818.2	1795.7	1800.6	1787.9	1773.2	1784.0	1801.6	1796.7	1813.3	1795.7	1813.3
12.5°	1804.5	1782.0	1777.1	1735.1	1708.7	1729.2	1783.0	1783.0	1798.6	1782.0	1800.6
15°	1788.8	1764.4	1738.0	1674.5	1647.1	1667.6	1741.9	1767.3	1781.0	1764.4	1783.0
17.5°	1770.3	1741.9	1691.1	1616.8	1591.4	1611.9	1688.2	1743.9	1761.5	1743.9	1760.5
20°	1746.8	1713.6	1641.2	1556.2	1539.6	1558.2	1634.4	1715.5	1740.0	1718.5	1730.2
22.5°	1721.4	1681.3	1585.5	1509.3	1501.5	1513.2	1582.6	1680.3	1712.6	1690.1	1697.9
25°	1690.1	1643.2	1529.8	1466.3	1460.4	1467.2	1531.8	1639.3	1681.3	1657.9	1660.8
27.5°	1656.9	1606.1	1477.0	1430.1	1424.2	1427.2	1480.9	1593.3	1645.2	1621.7	1616.8
30°	1616.8	1562.1	1424.2	1381.2	1375.4	1386.1	1432.1	1546.4	1605.1	1581.6	1567.0
32.5°	1576.7	1514.2	1372.4	1339.2	1327.5	1337.2	1381.2	1497.6	1561.1	1536.7	1512.2
35°	1526.9	1463.3	1318.7	1285.4	1275.7	1286.4	1330.4	1446.7	1511.2	1486.8	1453.6
37.5°	1475.1	1409.6	1269.8	1239.5	1221.9	1234.6	1278.6	1393.9	1459.4	1434.0	1393.0
40°	1423.3	1352.9	1215.0	1183.8	1161.3	1179.9	1224.8	1338.2	1400.8	1377.3	1330.4
42.5°	1362.7	1296.2	1161.3	1117.3	1053.8	1113.4	1167.2	1282.5	1340.2	1317.7	1261.0
45°	1299.1	1235.6	1104.6	998.0	832.8	1007.8	1108.5	1223.8	1269.8	1248.3	1186.7
47.5°	1226.8	1173.0	1046.9	884.6	724.3	894.4	1048.9	1168.1	1203.3	1179.9	1111.4
50°	1163.2	1110.5	986.3	788.9	648.1	799.6	985.3	1105.6	1134.9	1113.4	1037.1
52.5°	1090.9	1045.0	920.8	703.8	591.4	714.6	918.9	1041.1	1064.5	1039.1	962.9
55°	1019.5	978.5	851.4	628.5	541.5	638.3	849.5	974.6	993.2	963.8	884.6
57.5°	947.2	910.1	780.1	561.1	495.6	571.8	784.9	906.2	918.9	881.7	809.4
60°	871.9	840.7	707.7	501.5	450.6	510.3	705.8	837.7	845.5	805.5	736.1
62.5°	796.7	768.3	635.4	446.7	404.7	452.6	640.3	765.4	770.3	732.2	660.8
65°	719.4	693.1	565.0	389.1	360.7	398.8	569.9	690.1	695.0	652.0	587.5
67.5°	639.3	617.8	489.7	345.1	318.7	348.0	499.5	613.9	616.8	574.8	516.1
70°	559.1	540.6	423.3	297.2	277.6	298.1	430.1	529.8	535.7	490.7	443.8
72.5°	477.0	462.4	358.7	247.3	229.7	247.3	362.7	452.6	456.5	419.4	373.4
75°	393.9	383.2	293.3	198.4	184.8	197.5	295.2	375.4	375.4	340.2	304.0
77.5°	313.8	306.0	224.8	152.5	142.7	150.5	225.8	297.2	295.2	267.8	239.5
80°	234.6	228.7	161.3	110.5	103.6	107.5	161.3	219.9	219.9	200.4	166.2
82.5°	168.1	161.3	106.5	72.3	68.4	70.4	104.6	153.5	156.4	141.7	112.4
85°	111.4	95.8	57.7	40.1	37.1	38.1	54.7	89.0	97.8	82.1	58.7
87.5°	48.9	32.3	14.7	5.9	2.9	3.9	11.7	28.3	37.1	24.4	7.8
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°	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1
2.5°	1827.9	1812.3	1818.2	1822.1	1818.2	1835.8
5°	1826.0	1819.2	1818.2	1823.1	1815.2	1832.8
7.5°	1823.1	1819.2	1818.2	1820.1	1810.4	1827.0
10°	1816.2	1810.4	1812.3	1815.2	1802.5	1818.2
12.5°	1803.5	1797.6	1798.6	1808.4	1790.8	1804.5
15°	1782.0	1775.2	1782.0	1792.8	1777.1	1788.8
17.5°	1753.7	1742.9	1754.6	1771.3	1759.5	1770.3
20°	1717.5	1700.9	1713.6	1743.9	1733.1	1746.8
22.5°	1673.5	1653.0	1665.7	1709.7	1706.7	1721.4
25°	1623.6	1599.2	1616.8	1670.6	1676.4	1690.1
27.5°	1567.9	1540.6	1564.0	1627.6	1641.2	1656.9
30°	1507.3	1478.0	1505.4	1579.7	1600.2	1616.8
32.5°	1444.8	1412.5	1443.8	1525.9	1555.2	1576.7
35°	1379.3	1346.0	1381.2	1470.2	1505.4	1526.9
37.5°	1308.9	1276.6	1314.8	1411.5	1453.6	1475.1
40°	1236.6	1200.4	1243.4	1342.1	1397.8	1423.3
42.5°	1162.3	1117.3	1170.1	1276.6	1337.2	1362.7
45°	1079.2	1016.6	1088.0	1207.2	1270.8	1299.1
47.5°	996.1	933.5	1005.9	1132.9	1201.4	1226.8
50°	915.9	862.2	919.8	1051.8	1131.0	1163.2
52.5°	842.6	798.6	847.5	972.6	1058.6	1090.9
55°	774.2	740.0	780.1	894.4	982.4	1019.5
57.5°	709.7	688.2	715.5	820.1	912.0	947.2
60°	649.1	634.4	654.0	746.8	828.9	871.9
62.5°	589.4	581.6	596.3	669.6	751.7	796.7
65°	531.8	529.8	537.6	602.1	670.6	719.4
67.5°	474.1	473.1	478.0	530.8	591.4	639.3
70°	416.4	422.3	419.4	453.6	512.2	559.1
72.5°	357.8	366.6	361.7	383.2	439.9	477.0
75°	292.3	304.0	294.2	318.7	353.9	393.9
77.5°	224.8	237.5	225.8	247.3	285.4	313.8
80°	161.3	173.0	163.2	179.9	213.1	234.6
82.5°	101.7	110.5	102.6	119.3	152.5	168.1
85°	45.0	49.9	51.8	64.5	93.8	111.4
87.5°	2.0	1.0	2.0	12.7	33.2	48.9
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)