

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: P520492

Luminaire Tested: **4WSLA-125-L850-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: P520492
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-L850-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

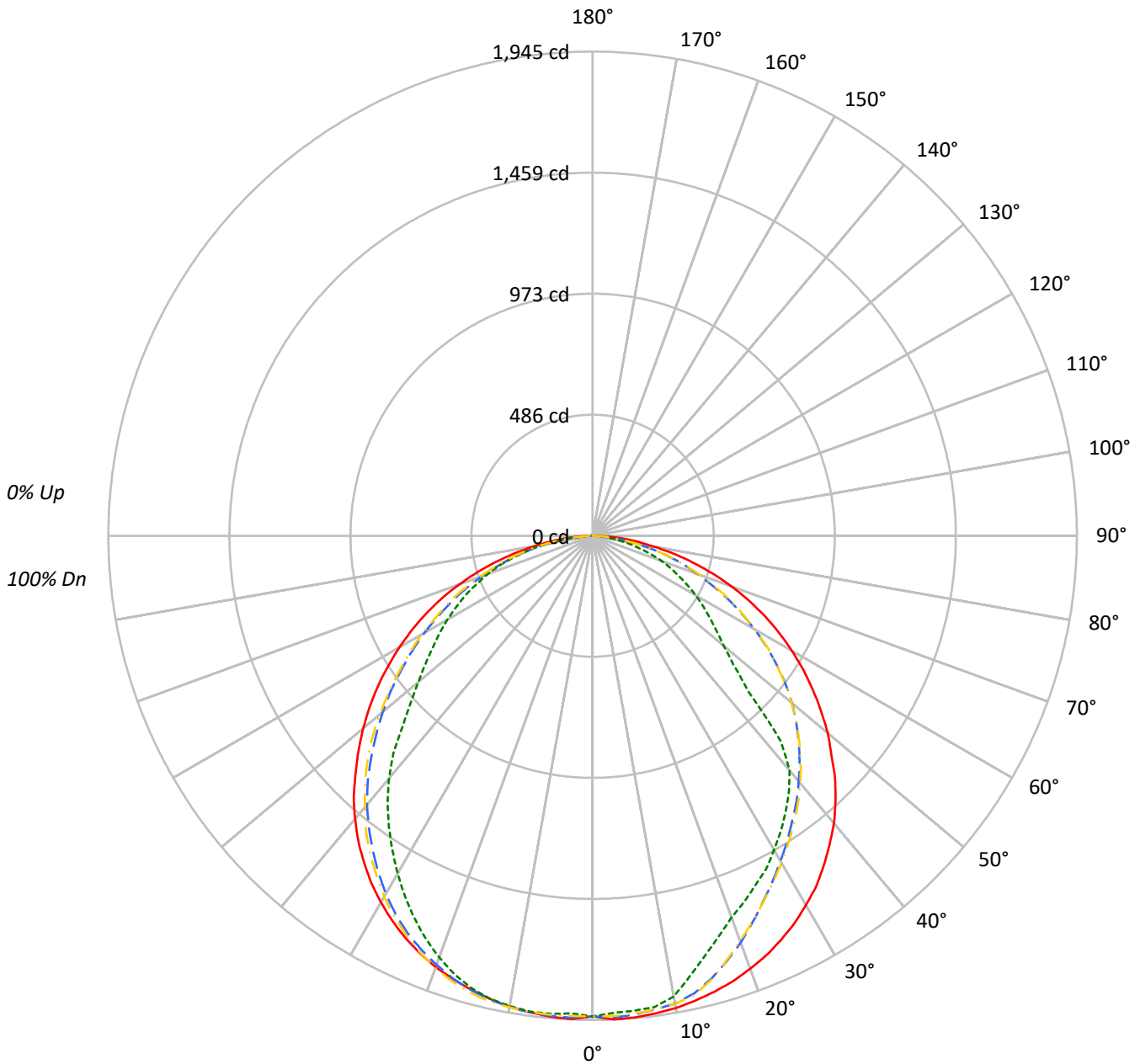
Lumens per Lamp: N/A
Luminaire Lumens: 5179.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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°	10390	10390	10390	10390
5°	10492	10346	10474	10413
10°	10528	10268	10499	10482
15°	10560	9724	10515	10479
20°	10600	9342	10559	10321
25°	10634	9188	10579	10062
30°	10646	9056	10568	9732
35°	10629	8880	10520	9370
40°	10595	8644	10427	8935
45°	10477	6716	10240	8198
50°	10320	5750	10068	7649
55°	10136	5384	9874	7356
60°	9945	5140	9643	7236
65°	9708	4867	9378	7149
70°	9322	4628	8932	7040
75°	8680	4069	8270	6698
80°	7705	3403	7221	5681
85°	7293	2433	6397	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	3.5
10°-20°	523.2	10.1
20°-30°	781.8	15.1
30°-40°	930.6	18.0
40°-50°	930.2	18.0
50°-60°	800.4	15.5
60°-70°	602.4	11.6
70°-80°	343.3	6.6
80°-90°	83.6	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°	1488.4	28.7
0°-40°	2419.0	46.7
0°-60°	4149.7	80.1
0°-90°	5179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5179.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1931	1931	1931	1931	1931	
5°	1942	1915	1939	1928	1942	185
15°	1895	1745	1887	1881	1895	535
25°	1791	1547	1781	1694	1791	826
35°	1618	1352	1601	1426	1618	1012
45°	1376	882	1345	1077	1376	1060
55°	1080	574	1052	784	1080	966
65°	762	382	736	561	762	753
75°	417	196	398	322	417	442
85°	118	39	104	53	118	128
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°	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6
2.5°	1945.1	1927.5	1937.8	1934.7	1918.1	1924.3	1930.6	1924.3	1943.0	1926.4	1937.8
5°	1942.0	1923.3	1929.5	1923.3	1915.0	1917.1	1926.4	1920.2	1938.8	1921.2	1935.7
7.5°	1935.7	1913.0	1919.2	1916.1	1908.8	1909.8	1919.2	1914.0	1930.6	1914.0	1930.6
10°	1926.4	1902.6	1907.8	1894.3	1878.8	1890.2	1908.8	1903.6	1921.2	1902.6	1921.2
12.5°	1911.9	1888.1	1882.9	1838.4	1810.4	1832.2	1889.1	1889.1	1905.7	1888.1	1907.8
15°	1895.3	1869.5	1841.5	1774.2	1745.2	1766.9	1845.6	1872.6	1887.1	1869.5	1889.1
17.5°	1875.7	1845.6	1791.8	1713.1	1686.1	1707.9	1788.7	1847.7	1866.3	1847.7	1865.3
20°	1850.8	1815.6	1739.0	1648.8	1631.2	1650.9	1731.7	1817.7	1843.6	1820.8	1833.2
22.5°	1823.9	1781.4	1679.9	1599.1	1590.8	1603.3	1676.8	1780.4	1814.6	1790.7	1799.0
25°	1790.7	1741.0	1620.9	1553.6	1547.3	1554.6	1623.0	1736.9	1781.4	1756.6	1759.7
27.5°	1755.5	1701.7	1565.0	1515.2	1509.0	1512.1	1569.1	1688.2	1743.1	1718.2	1713.1
30°	1713.1	1655.1	1509.0	1463.5	1457.2	1468.6	1517.3	1638.5	1700.6	1675.8	1660.2
32.5°	1670.6	1604.3	1454.1	1418.9	1406.5	1416.8	1463.5	1586.7	1654.0	1628.1	1602.2
35°	1617.8	1550.5	1397.2	1362.0	1351.6	1363.0	1409.6	1532.8	1601.2	1575.3	1540.1
37.5°	1562.9	1493.5	1345.4	1313.3	1294.6	1308.1	1354.7	1476.9	1546.3	1519.4	1475.9
40°	1508.0	1433.4	1287.4	1254.2	1230.4	1250.1	1297.7	1417.9	1484.2	1459.3	1409.6
42.5°	1443.8	1373.3	1230.4	1183.8	1116.5	1179.7	1236.6	1358.8	1420.0	1396.1	1336.1
45°	1376.5	1309.1	1170.4	1057.5	882.4	1067.8	1174.5	1296.7	1345.4	1322.6	1257.3
47.5°	1299.8	1242.8	1109.2	937.3	767.5	947.7	1111.3	1237.7	1275.0	1250.1	1177.6
50°	1232.5	1176.6	1045.0	835.8	686.7	847.2	1044.0	1171.4	1202.5	1179.7	1098.9
52.5°	1155.9	1107.2	975.6	745.7	626.6	757.1	973.6	1103.0	1127.9	1101.0	1020.2
55°	1080.2	1036.7	902.1	666.0	573.8	676.3	900.0	1032.6	1052.3	1021.2	937.3
57.5°	1003.6	964.2	826.5	594.5	525.1	605.9	831.7	960.1	973.6	934.2	857.6
60°	923.9	890.7	749.9	531.3	477.5	540.6	747.8	887.6	895.9	853.4	779.9
62.5°	844.1	814.1	673.2	473.3	428.8	479.5	678.4	811.0	816.1	775.7	700.1
65°	762.3	734.3	598.6	412.2	382.2	422.6	603.8	731.2	736.4	690.8	622.5
67.5°	677.4	654.6	518.9	365.6	337.6	368.7	529.2	650.4	653.5	609.0	546.9
70°	592.4	572.7	448.5	314.9	294.1	315.9	455.7	561.4	567.6	519.9	470.2
72.5°	505.4	489.9	380.1	262.0	243.4	262.0	384.2	479.5	483.7	444.3	395.6
75°	417.4	406.0	310.7	210.2	195.7	209.2	312.8	397.7	397.7	360.4	322.1
77.5°	332.5	324.2	238.2	161.6	151.2	159.5	239.2	314.9	312.8	283.8	253.7
80°	248.6	242.4	170.9	117.0	109.8	113.9	170.9	233.0	233.0	212.3	176.1
82.5°	178.1	170.9	112.9	76.6	72.5	74.6	110.8	162.6	165.7	150.2	119.1
85°	118.1	101.5	61.1	42.5	39.4	40.4	58.0	94.2	103.6	87.0	62.1
87.5°	51.8	34.2	15.5	6.2	3.1	4.1	12.4	30.0	39.4	25.9	8.3
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°	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6
2.5°	1936.8	1920.2	1926.4	1930.6	1926.4	1945.1
5°	1934.7	1927.5	1926.4	1931.6	1923.3	1942.0
7.5°	1931.6	1927.5	1926.4	1928.5	1918.1	1935.7
10°	1924.3	1918.1	1920.2	1923.3	1909.8	1926.4
12.5°	1910.9	1904.7	1905.7	1916.1	1897.4	1911.9
15°	1888.1	1880.8	1888.1	1899.5	1882.9	1895.3
17.5°	1858.1	1846.7	1859.1	1876.7	1864.3	1875.7
20°	1819.7	1802.1	1815.6	1847.7	1836.3	1850.8
22.5°	1773.1	1751.4	1764.8	1811.5	1808.3	1823.9
25°	1720.3	1694.4	1713.1	1770.0	1776.2	1790.7
27.5°	1661.3	1632.3	1657.1	1724.5	1739.0	1755.5
30°	1597.1	1566.0	1595.0	1673.7	1695.5	1713.1
32.5°	1530.8	1496.6	1529.7	1616.7	1647.8	1670.6
35°	1461.4	1426.2	1463.5	1557.7	1595.0	1617.8
37.5°	1386.8	1352.6	1393.0	1495.6	1540.1	1562.9
40°	1310.2	1271.8	1317.4	1422.0	1481.1	1508.0
42.5°	1231.5	1183.8	1239.7	1352.6	1416.8	1443.8
45°	1143.4	1077.1	1152.7	1279.1	1346.4	1376.5
47.5°	1055.4	989.1	1065.7	1200.4	1272.9	1299.8
50°	970.5	913.5	974.6	1114.4	1198.3	1232.5
52.5°	892.8	846.2	898.0	1030.5	1121.7	1155.9
55°	820.3	784.0	826.5	947.7	1040.9	1080.2
57.5°	751.9	729.1	758.1	869.0	966.3	1003.6
60°	687.7	672.2	692.9	791.3	878.3	923.9
62.5°	624.5	616.2	631.8	709.5	796.5	844.1
65°	563.4	561.4	569.6	638.0	710.5	762.3
67.5°	502.3	501.3	506.5	562.4	626.6	677.4
70°	441.2	447.4	444.3	480.6	542.7	592.4
72.5°	379.1	388.4	383.2	406.0	466.1	505.4
75°	309.7	322.1	311.7	337.6	374.9	417.4
77.5°	238.2	251.7	239.2	262.0	302.4	332.5
80°	170.9	183.3	173.0	190.6	225.8	248.6
82.5°	107.7	117.0	108.7	126.4	161.6	178.1
85°	47.6	52.8	54.9	68.4	99.4	118.1
87.5°	2.1	1.0	2.1	13.5	35.2	51.8
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)