

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: P520786

Luminaire Tested: **8WSLA-75-L935-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: P520786
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: 8WSLA-75-L935-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

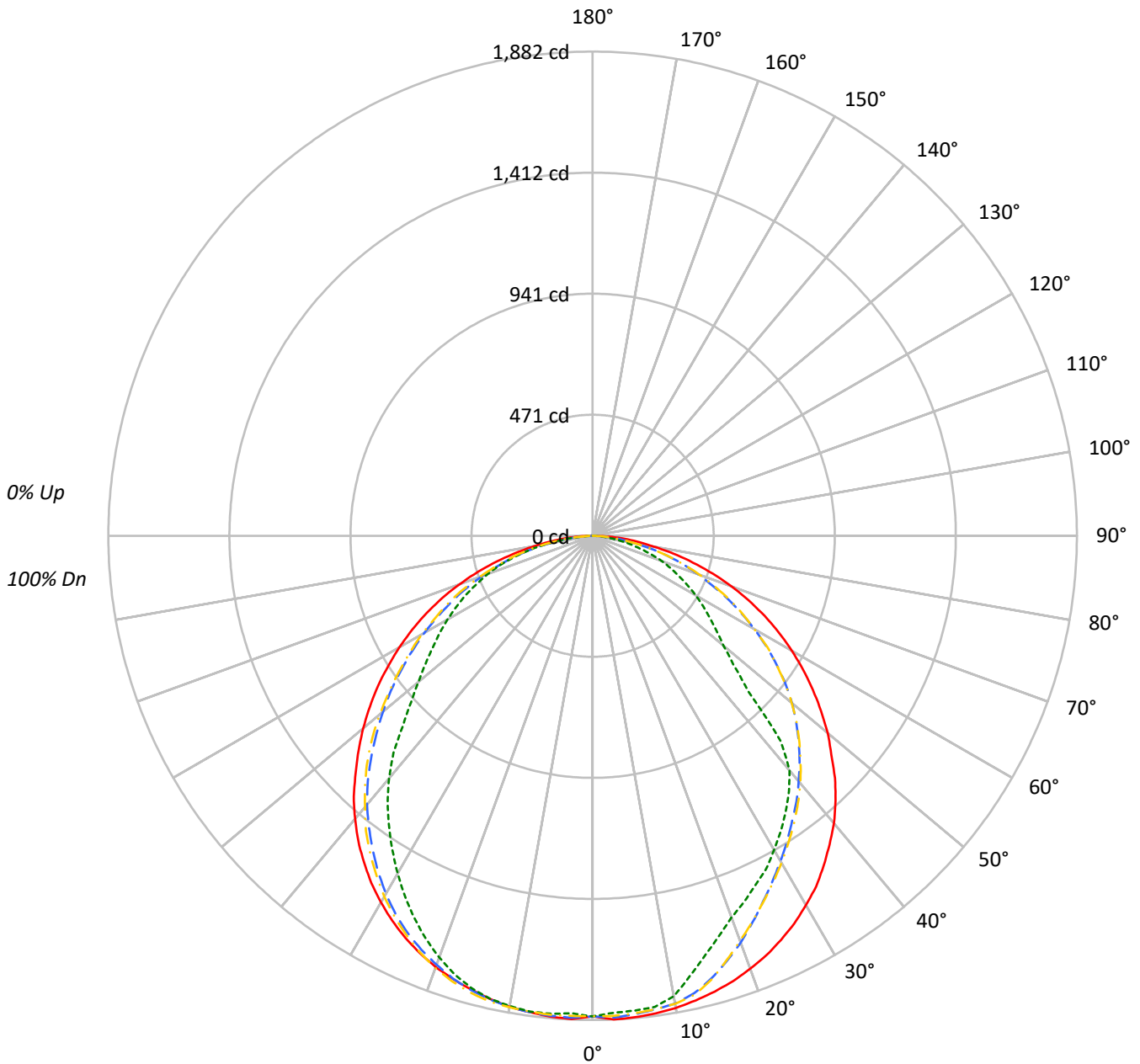
Lumens per Lamp: N/A
Luminaire Lumens: 5011.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 46.6
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°	5026	5026	5026	5026
5°	5076	5005	5068	5038
10°	5093	4967	5079	5071
15°	5109	4704	5087	5070
20°	5128	4520	5108	4993
25°	5145	4445	5118	4868
30°	5150	4381	5113	4708
35°	5142	4296	5090	4533
40°	5126	4182	5044	4323
45°	5068	3249	4954	3966
50°	4992	2781	4871	3700
55°	4904	2605	4776	3559
60°	4811	2486	4665	3500
65°	4697	2355	4537	3458
70°	4510	2239	4321	3406
75°	4199	1969	4001	3241
80°	3727	1646	3495	2749
85°	3526	1176	3094	1578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	3.5
10°-20°	506.2	10.1
20°-30°	756.4	15.1
30°-40°	900.4	18.0
40°-50°	900.0	18.0
50°-60°	774.5	15.5
60°-70°	582.9	11.6
70°-80°	332.2	6.6
80°-90°	80.8	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°	1440.2	28.7
0°-40°	2340.6	46.7
0°-60°	4015.1	80.1
0°-90°	5011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5011.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1868	1868	1868	1868	1868	
5°	1879	1853	1876	1865	1879	179
15°	1834	1689	1826	1820	1834	518
25°	1733	1497	1724	1640	1733	799
35°	1565	1308	1549	1380	1565	979
45°	1332	854	1302	1042	1332	1026
55°	1045	555	1018	759	1045	934
65°	738	370	712	543	738	728
75°	404	189	385	312	404	428
85°	114	38	100	51	114	124
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°	1867.9	1867.9	1867.9	1867.9	1867.9	1867.9	1867.9	1867.9	1867.9	1867.9	1867.9
2.5°	1882.0	1864.9	1875.0	1871.9	1855.9	1861.9	1867.9	1861.9	1880.0	1863.9	1875.0
5°	1879.0	1860.9	1866.9	1860.9	1852.9	1854.9	1863.9	1857.9	1876.0	1858.9	1872.9
7.5°	1872.9	1850.9	1856.9	1853.9	1846.9	1847.9	1856.9	1851.9	1867.9	1851.9	1867.9
10°	1863.9	1840.9	1845.9	1832.9	1817.8	1828.9	1846.9	1841.9	1858.9	1840.9	1858.9
12.5°	1849.9	1826.8	1821.8	1778.7	1751.7	1772.7	1827.9	1827.9	1843.9	1826.8	1845.9
15°	1833.9	1808.8	1781.8	1716.6	1688.6	1709.6	1785.8	1811.8	1825.8	1808.8	1827.9
17.5°	1814.8	1785.8	1733.7	1657.5	1631.4	1652.5	1730.6	1787.8	1805.8	1787.8	1804.8
20°	1790.8	1756.7	1682.5	1595.4	1578.3	1597.4	1675.5	1758.7	1783.8	1761.7	1773.7
22.5°	1764.7	1723.6	1625.4	1547.3	1539.2	1551.3	1622.4	1722.6	1755.7	1732.7	1740.7
25°	1732.7	1684.5	1568.3	1503.2	1497.2	1504.2	1570.3	1680.5	1723.6	1699.6	1702.6
27.5°	1698.6	1646.5	1514.2	1466.1	1460.1	1463.1	1518.2	1633.4	1686.6	1662.5	1657.5
30°	1657.5	1601.4	1460.1	1416.0	1410.0	1421.0	1468.1	1585.3	1645.5	1621.4	1606.4
32.5°	1616.4	1552.3	1407.0	1372.9	1360.9	1370.9	1416.0	1535.2	1600.4	1575.3	1550.3
35°	1565.3	1500.2	1351.8	1317.8	1307.8	1318.8	1363.9	1483.1	1549.3	1524.2	1490.1
37.5°	1512.2	1445.0	1301.7	1270.7	1252.6	1265.7	1310.8	1429.0	1496.2	1470.1	1428.0
40°	1459.1	1386.9	1245.6	1213.6	1190.5	1209.5	1255.6	1371.9	1436.0	1412.0	1363.9
42.5°	1396.9	1328.8	1190.5	1145.4	1080.3	1141.4	1196.5	1314.8	1373.9	1350.8	1292.7
45°	1331.8	1266.7	1132.4	1023.2	853.8	1033.2	1136.4	1254.6	1301.7	1279.7	1216.6
47.5°	1257.6	1202.5	1073.3	906.9	742.6	916.9	1075.3	1197.5	1233.6	1209.5	1139.4
50°	1192.5	1138.4	1011.1	808.7	664.4	819.7	1010.1	1133.4	1163.5	1141.4	1063.2
52.5°	1118.4	1071.3	944.0	721.5	606.3	732.5	942.0	1067.2	1091.3	1065.2	987.1
55°	1045.2	1003.1	872.8	644.4	555.2	654.4	870.8	999.1	1018.1	988.1	906.9
57.5°	971.0	933.0	799.7	575.2	508.1	586.2	804.7	929.0	942.0	903.9	829.7
60°	893.9	861.8	725.5	514.1	462.0	523.1	723.5	858.8	866.8	825.7	754.6
62.5°	816.7	787.7	651.4	458.0	414.9	464.0	656.4	784.7	789.7	750.6	677.4
65°	737.6	710.5	579.2	398.8	369.8	408.9	584.2	707.5	712.5	668.4	602.3
67.5°	655.4	633.3	502.1	353.7	326.7	356.8	512.1	629.3	632.3	589.2	529.1
70°	573.2	554.2	433.9	304.6	284.6	305.6	440.9	543.1	549.2	503.1	455.0
72.5°	489.0	474.0	367.8	253.5	235.5	253.5	371.8	464.0	468.0	429.9	382.8
75°	403.9	392.8	300.6	203.4	189.4	202.4	302.6	384.8	384.8	348.7	311.7
77.5°	321.7	313.7	230.5	156.3	146.3	154.3	231.5	304.6	302.6	274.6	245.5
80°	240.5	234.5	165.3	113.2	106.2	110.2	165.3	225.5	225.5	205.4	170.4
82.5°	172.4	165.3	109.2	74.2	70.1	72.2	107.2	157.3	160.3	145.3	115.2
85°	114.2	98.2	59.1	41.1	38.1	39.1	56.1	91.2	100.2	84.2	60.1
87.5°	50.1	33.1	15.0	6.0	3.0	4.0	12.0	29.1	38.1	25.1	8.0
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°	1867.9	1867.9	1867.9	1867.9	1867.9	1867.9
2.5°	1873.9	1857.9	1863.9	1867.9	1863.9	1882.0
5°	1871.9	1864.9	1863.9	1868.9	1860.9	1879.0
7.5°	1868.9	1864.9	1863.9	1865.9	1855.9	1872.9
10°	1861.9	1855.9	1857.9	1860.9	1847.9	1863.9
12.5°	1848.9	1842.9	1843.9	1853.9	1835.9	1849.9
15°	1826.8	1819.8	1826.8	1837.9	1821.8	1833.9
17.5°	1797.8	1786.8	1798.8	1815.8	1803.8	1814.8
20°	1760.7	1743.7	1756.7	1787.8	1776.7	1790.8
22.5°	1715.6	1694.6	1707.6	1752.7	1749.7	1764.7
25°	1664.5	1639.5	1657.5	1712.6	1718.6	1732.7
27.5°	1607.4	1579.3	1603.4	1668.5	1682.5	1698.6
30°	1545.3	1515.2	1543.3	1619.4	1640.5	1657.5
32.5°	1481.1	1448.1	1480.1	1564.3	1594.4	1616.4
35°	1414.0	1379.9	1416.0	1507.2	1543.3	1565.3
37.5°	1341.8	1308.8	1347.8	1447.0	1490.1	1512.2
40°	1267.7	1230.6	1274.7	1375.9	1433.0	1459.1
42.5°	1191.5	1145.4	1199.5	1308.8	1370.9	1396.9
45°	1106.3	1042.2	1115.3	1237.6	1302.7	1331.8
47.5°	1021.2	957.0	1031.2	1161.4	1231.6	1257.6
50°	939.0	883.9	943.0	1078.3	1159.4	1192.5
52.5°	863.8	818.7	868.8	997.1	1085.3	1118.4
55°	793.7	758.6	799.7	916.9	1007.1	1045.2
57.5°	727.5	705.5	733.5	840.8	935.0	971.0
60°	665.4	650.4	670.4	765.6	849.8	893.9
62.5°	604.3	596.3	611.3	686.4	770.6	816.7
65°	545.1	543.1	551.2	617.3	687.4	737.6
67.5°	486.0	485.0	490.0	544.1	606.3	655.4
70°	426.9	432.9	429.9	465.0	525.1	573.2
72.5°	366.8	375.8	370.8	392.8	451.0	489.0
75°	299.6	311.7	301.6	326.7	362.8	403.9
77.5°	230.5	243.5	231.5	253.5	292.6	321.7
80°	165.3	177.4	167.4	184.4	218.5	240.5
82.5°	104.2	113.2	105.2	122.3	156.3	172.4
85°	46.1	51.1	53.1	66.1	96.2	114.2
87.5°	2.0	1.0	2.0	13.0	34.1	50.1
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)