

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: P520789

Luminaire Tested: **8WSLA-75-L940-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: P520789
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-L940-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

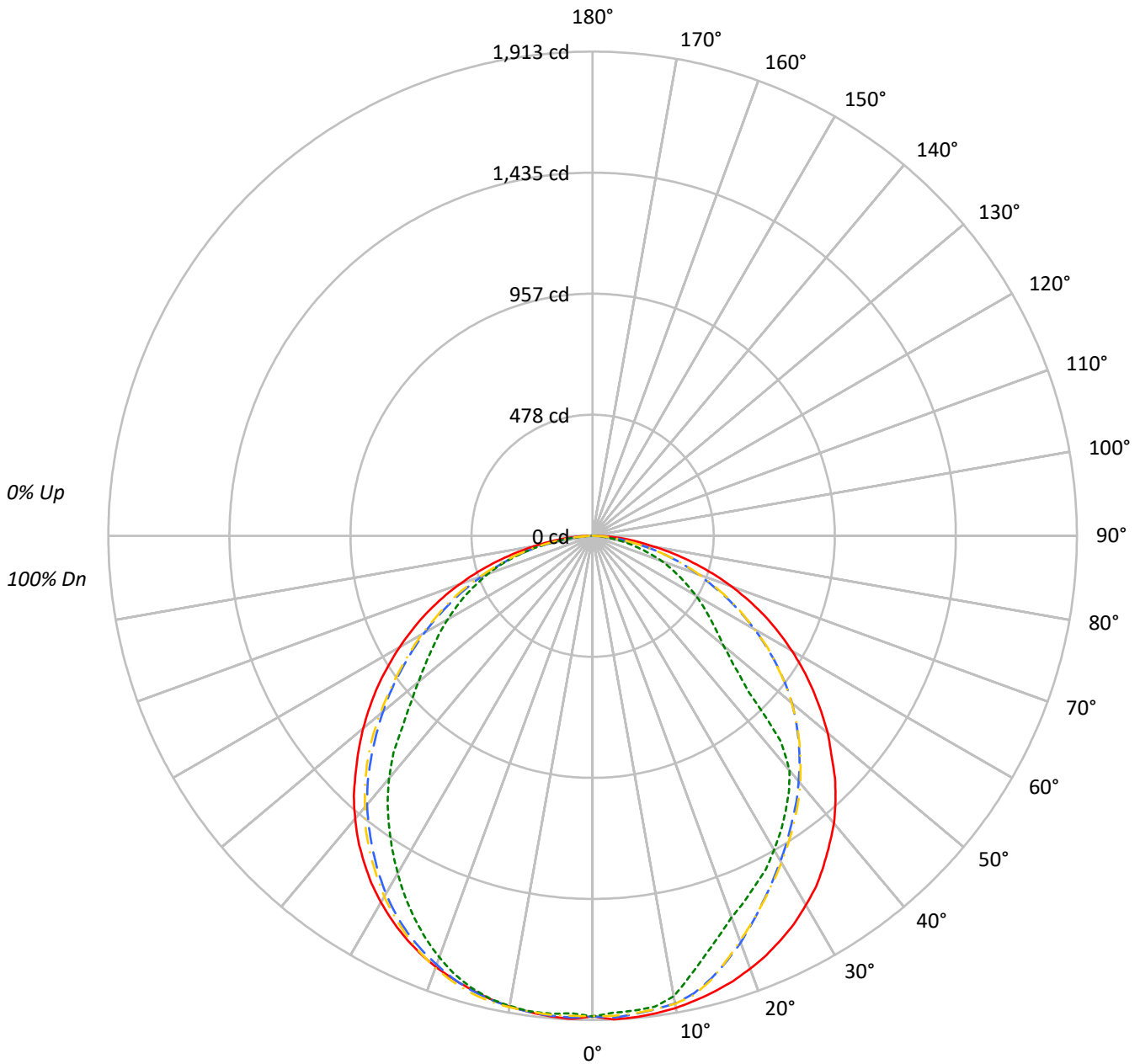
Lumens per Lamp: N/A
Luminaire Lumens: 5093.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 46.6
Input Voltage (V): NR
Input Current (Ain): 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

TEST NUMBER: P520789

CATALOG NUMBER: 8WSLA-75-L940-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520789

CATALOG NUMBER: 8WSLA-75-L940-UNV-U

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°	5109	5109	5109	5109
5°	5159	5087	5150	5120
10°	5176	5049	5162	5154
15°	5193	4781	5170	5153
20°	5212	4594	5192	5075
25°	5229	4518	5201	4948
30°	5235	4453	5197	4785
35°	5226	4367	5173	4607
40°	5210	4251	5127	4393
45°	5151	3303	5035	4031
50°	5074	2827	4950	3761
55°	4984	2647	4855	3617
60°	4890	2527	4742	3557
65°	4773	2393	4611	3515
70°	4584	2276	4391	3462
75°	4268	2001	4066	3294
80°	3787	1674	3552	2794
85°	3585	1195	3146	1602



TEST NUMBER: P520789

CATALOG NUMBER: 8WSLA-75-L940-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	3.5
10°-20°	514.5	10.1
20°-30°	768.8	15.1
30°-40°	915.2	18.0
40°-50°	914.8	18.0
50°-60°	787.1	15.5
60°-70°	592.4	11.6
70°-80°	337.6	6.6
80°-90°	82.2	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°	1463.7	28.7
0°-40°	2378.9	46.7
0°-60°	4080.8	80.1
0°-90°	5093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5093.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1898	1898	1898	1898	1898	
5°	1910	1883	1907	1895	1910	182
15°	1864	1716	1856	1850	1864	527
25°	1761	1522	1752	1666	1761	812
35°	1591	1329	1575	1402	1591	995
45°	1354	868	1323	1059	1354	1042
55°	1062	564	1035	771	1062	950
65°	750	376	724	552	750	740
75°	410	192	391	317	410	435
85°	116	39	102	52	116	126
90°	0	0	0	0	0	



TEST NUMBER: P520789

CATALOG NUMBER: 8WSLA-75-L940-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5
2.5°	1912.8	1895.4	1905.6	1902.6	1886.3	1892.4	1898.5	1892.4	1910.7	1894.4	1905.6
5°	1909.7	1891.4	1897.5	1891.4	1883.2	1885.3	1894.4	1888.3	1906.7	1889.3	1903.6
7.5°	1903.6	1881.2	1887.3	1884.2	1877.1	1878.1	1887.3	1882.2	1898.5	1882.2	1898.5
10°	1894.4	1871.0	1876.1	1862.9	1847.6	1858.8	1877.1	1872.0	1889.3	1871.0	1889.3
12.5°	1880.2	1856.7	1851.7	1807.9	1780.4	1801.7	1857.8	1857.8	1874.1	1856.7	1876.1
15°	1863.9	1838.4	1810.9	1744.7	1716.2	1737.6	1815.0	1841.5	1855.7	1838.4	1857.8
17.5°	1844.5	1815.0	1762.0	1684.6	1658.1	1679.5	1759.0	1817.0	1835.4	1817.0	1834.3
20°	1820.1	1785.4	1710.1	1621.5	1604.2	1623.5	1702.9	1787.5	1812.9	1790.5	1802.8
22.5°	1793.6	1751.8	1652.0	1572.6	1564.4	1576.7	1649.0	1750.8	1784.4	1761.0	1769.2
25°	1761.0	1712.1	1594.0	1527.8	1521.7	1528.8	1596.0	1708.0	1751.8	1727.4	1730.4
27.5°	1726.4	1673.4	1539.0	1490.1	1484.0	1487.0	1543.0	1660.2	1714.2	1689.7	1684.6
30°	1684.6	1627.6	1484.0	1439.2	1433.0	1444.2	1492.1	1611.3	1672.4	1647.9	1632.7
32.5°	1642.9	1577.7	1430.0	1395.4	1383.1	1393.3	1439.2	1560.4	1626.6	1601.1	1575.6
35°	1590.9	1524.7	1374.0	1339.3	1329.2	1340.4	1386.2	1507.4	1574.6	1549.2	1514.5
37.5°	1536.9	1468.7	1323.0	1291.5	1273.1	1286.4	1332.2	1452.4	1520.6	1494.2	1451.4
40°	1483.0	1409.6	1266.0	1233.4	1210.0	1229.3	1276.2	1394.3	1459.5	1435.1	1386.2
42.5°	1419.8	1350.5	1210.0	1164.2	1098.0	1160.1	1216.1	1336.3	1396.4	1373.0	1313.9
45°	1353.6	1287.4	1150.9	1039.9	867.8	1050.1	1155.0	1275.2	1323.0	1300.6	1236.5
47.5°	1278.2	1222.2	1090.8	921.8	754.7	931.9	1092.9	1217.1	1253.8	1229.3	1158.0
50°	1212.0	1157.0	1027.7	821.9	675.3	833.1	1026.7	1151.9	1182.5	1160.1	1080.6
52.5°	1136.7	1088.8	959.4	733.3	616.2	744.5	957.4	1084.7	1109.2	1082.7	1003.2
55°	1062.3	1019.5	887.1	654.9	564.3	665.1	885.1	1015.5	1034.8	1004.3	921.8
57.5°	986.9	948.2	812.8	584.6	516.4	595.8	817.9	944.2	957.4	918.7	843.3
60°	908.5	875.9	737.4	522.5	469.5	531.7	735.4	872.9	881.0	839.3	766.9
62.5°	830.1	800.5	662.0	465.5	421.7	471.6	667.1	797.5	802.6	762.9	688.5
65°	749.6	722.1	588.7	405.4	375.8	415.6	593.8	719.1	724.2	679.3	612.1
67.5°	666.1	643.7	510.3	359.5	332.0	362.6	520.5	639.6	642.7	598.9	537.8
70°	582.6	563.2	441.0	309.6	289.3	310.6	448.1	552.0	558.1	511.3	462.4
72.5°	497.0	481.8	373.8	257.7	239.3	257.7	377.9	471.6	475.6	436.9	389.1
75°	410.5	399.3	305.6	206.8	192.5	205.7	307.6	391.1	391.1	354.4	316.8
77.5°	326.9	318.8	234.3	158.9	148.7	156.9	235.3	309.6	307.6	279.1	249.5
80°	244.4	238.3	168.1	115.1	108.0	112.0	168.1	229.2	229.2	208.8	173.1
82.5°	175.2	168.1	111.0	75.4	71.3	73.3	109.0	159.9	163.0	147.7	117.1
85°	116.1	99.8	60.1	41.8	38.7	39.7	57.0	92.7	101.9	85.6	61.1
87.5°	50.9	33.6	15.3	6.1	3.1	4.1	12.2	29.5	38.7	25.5	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P520789

CATALOG NUMBER: 8WSLA-75-L940-UNV-U

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5
2.5°	1904.6	1888.3	1894.4	1898.5	1894.4	1912.8
5°	1902.6	1895.4	1894.4	1899.5	1891.4	1909.7
7.5°	1899.5	1895.4	1894.4	1896.5	1886.3	1903.6
10°	1892.4	1886.3	1888.3	1891.4	1878.1	1894.4
12.5°	1879.2	1873.0	1874.1	1884.2	1865.9	1880.2
15°	1856.7	1849.6	1856.7	1867.9	1851.7	1863.9
17.5°	1827.2	1816.0	1828.2	1845.5	1833.3	1844.5
20°	1789.5	1772.2	1785.4	1817.0	1805.8	1820.1
22.5°	1743.7	1722.3	1735.5	1781.4	1778.3	1793.6
25°	1691.7	1666.3	1684.6	1740.6	1746.7	1761.0
27.5°	1633.7	1605.2	1629.6	1695.8	1710.1	1726.4
30°	1570.5	1540.0	1568.5	1645.9	1667.3	1684.6
32.5°	1505.4	1471.7	1504.3	1589.9	1620.4	1642.9
35°	1437.1	1402.5	1439.2	1531.8	1568.5	1590.9
37.5°	1363.8	1330.2	1369.9	1470.7	1514.5	1536.9
40°	1288.4	1250.7	1295.5	1398.4	1456.5	1483.0
42.5°	1211.0	1164.2	1219.2	1330.2	1393.3	1419.8
45°	1124.4	1059.3	1133.6	1257.9	1324.1	1353.6
47.5°	1037.9	972.7	1048.0	1180.5	1251.7	1278.2
50°	954.3	898.3	958.4	1095.9	1178.4	1212.0
52.5°	878.0	832.1	883.0	1013.4	1103.0	1136.7
55°	806.7	771.0	812.8	931.9	1023.6	1062.3
57.5°	739.4	717.0	745.5	854.5	950.3	986.9
60°	676.3	661.0	681.4	778.1	863.7	908.5
62.5°	614.2	606.0	621.3	697.7	783.2	830.1
65°	554.1	552.0	560.2	627.4	698.7	749.6
67.5°	494.0	493.0	498.1	553.1	616.2	666.1
70°	433.9	440.0	436.9	472.6	533.7	582.6
72.5°	372.8	381.9	376.8	399.3	458.3	497.0
75°	304.5	316.8	306.6	332.0	368.7	410.5
77.5°	234.3	247.5	235.3	257.7	297.4	326.9
80°	168.1	180.3	170.1	187.4	222.0	244.4
82.5°	105.9	115.1	106.9	124.3	158.9	175.2
85°	46.9	51.9	54.0	67.2	97.8	116.1
87.5°	2.0	1.0	2.0	13.2	34.6	50.9
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)