

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: P520783

Luminaire Tested: **8WSLA-75-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: P520783
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-L930-UNV-U
Description: 8 FOOT, 1500 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

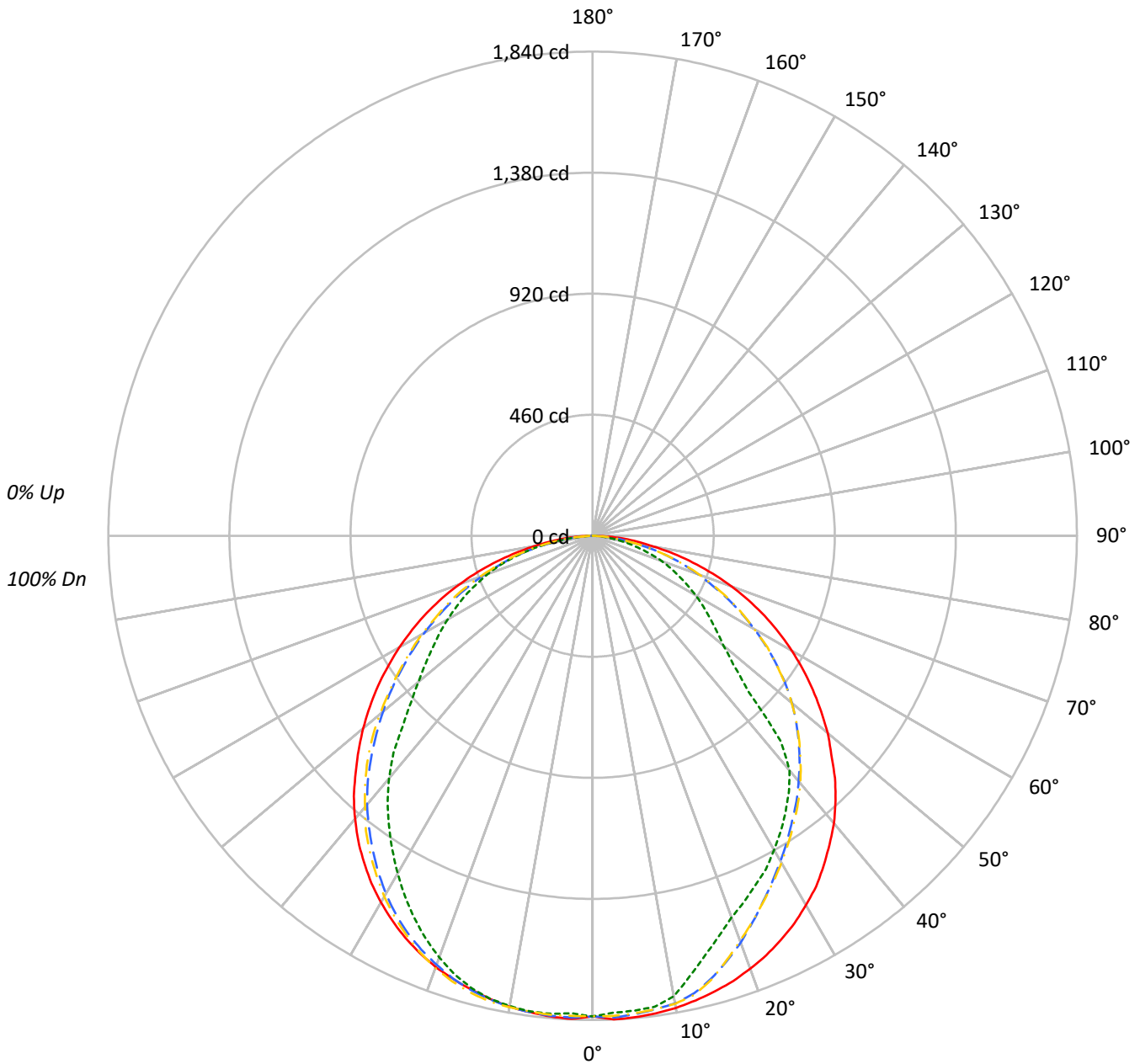
Lumens per Lamp: N/A
Luminaire Lumens: 4899.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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									
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°	4914	4914	4914	4914
5°	4962	4893	4954	4925
10°	4979	4856	4966	4958
15°	4995	4599	4973	4957
20°	5013	4419	4994	4882
25°	5029	4346	5003	4759
30°	5035	4283	4999	4603
35°	5027	4200	4976	4432
40°	5011	4089	4932	4226
45°	4955	3177	4843	3878
50°	4881	2719	4762	3617
55°	4794	2547	4670	3479
60°	4703	2430	4561	3422
65°	4592	2302	4436	3381
70°	4409	2189	4224	3330
75°	4105	1926	3911	3168
80°	3643	1609	3415	2687
85°	3449	1149	3026	1544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	3.5
10°-20°	494.9	10.1
20°-30°	739.5	15.1
30°-40°	880.3	18.0
40°-50°	879.9	18.0
50°-60°	757.2	15.5
60°-70°	569.9	11.6
70°-80°	324.7	6.6
80°-90°	79.0	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°	1408.0	28.7
0°-40°	2288.3	46.7
0°-60°	3925.3	80.1
0°-90°	4899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4899.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1826	1826	1826	1826	1826	
5°	1837	1812	1834	1823	1837	175
15°	1793	1651	1785	1779	1793	507
25°	1694	1464	1685	1603	1694	781
35°	1530	1278	1515	1349	1530	958
45°	1302	835	1273	1019	1302	1003
55°	1022	543	995	742	1022	914
65°	721	362	697	531	721	712
75°	395	185	376	305	395	418
85°	112	37	98	50	112	122
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°	1826.2	1826.2	1826.2	1826.2	1826.2	1826.2	1826.2	1826.2	1826.2	1826.2	1826.2
2.5°	1839.9	1823.2	1833.0	1830.1	1814.4	1820.3	1826.2	1820.3	1837.9	1822.3	1833.0
5°	1837.0	1819.3	1825.2	1819.3	1811.5	1813.4	1822.3	1816.4	1834.0	1817.4	1831.1
7.5°	1831.1	1809.5	1815.4	1812.5	1805.6	1806.6	1815.4	1810.5	1826.2	1810.5	1826.2
10°	1822.3	1799.7	1804.6	1791.9	1777.2	1788.0	1805.6	1800.7	1817.4	1799.7	1817.4
12.5°	1808.6	1786.0	1781.1	1739.0	1712.5	1733.1	1787.0	1787.0	1802.7	1786.0	1804.6
15°	1792.9	1768.4	1741.9	1678.2	1650.8	1671.4	1745.8	1771.3	1785.0	1768.4	1787.0
17.5°	1774.3	1745.8	1694.9	1620.4	1595.0	1615.5	1692.0	1747.8	1765.4	1747.8	1764.5
20°	1750.7	1717.4	1644.9	1559.7	1543.0	1561.7	1638.1	1719.4	1743.9	1722.3	1734.1
22.5°	1725.3	1685.1	1589.1	1512.7	1504.8	1516.6	1586.2	1684.1	1716.5	1693.9	1701.8
25°	1693.9	1646.9	1533.3	1469.6	1463.7	1470.5	1535.2	1643.0	1685.1	1661.6	1664.5
27.5°	1660.6	1609.7	1480.3	1433.3	1427.4	1430.4	1484.3	1596.9	1648.9	1625.3	1620.4
30°	1620.4	1565.6	1427.4	1384.3	1378.5	1389.2	1435.3	1549.9	1608.7	1585.2	1570.5
32.5°	1580.3	1517.6	1375.5	1342.2	1330.5	1340.2	1384.3	1500.9	1564.6	1540.1	1515.6
35°	1530.3	1466.6	1321.6	1288.3	1278.5	1289.3	1333.4	1450.0	1514.6	1490.1	1456.8
37.5°	1478.4	1412.7	1272.6	1242.3	1224.6	1237.4	1281.5	1397.1	1462.7	1437.2	1396.1
40°	1426.5	1355.9	1217.8	1186.4	1163.9	1182.5	1227.6	1341.2	1403.9	1380.4	1333.4
42.5°	1365.7	1299.1	1163.9	1119.8	1056.1	1115.9	1169.8	1285.4	1343.2	1320.7	1263.8
45°	1302.0	1238.4	1107.1	1000.3	834.7	1010.1	1111.0	1226.6	1272.6	1251.1	1189.4
47.5°	1229.5	1175.7	1049.3	886.6	726.0	896.4	1051.2	1170.8	1206.0	1182.5	1113.9
50°	1165.9	1113.0	988.5	790.6	649.5	801.4	987.6	1108.1	1137.4	1115.9	1039.5
52.5°	1093.4	1047.3	922.9	705.4	592.7	716.2	920.9	1043.4	1066.9	1041.4	965.0
55°	1021.8	980.7	853.3	630.0	542.8	639.8	851.4	976.8	995.4	966.0	886.6
57.5°	949.3	912.1	781.8	562.4	496.7	573.1	786.7	908.2	920.9	883.7	811.2
60°	873.9	842.6	709.3	502.6	451.6	511.4	707.4	839.6	847.5	807.3	737.7
62.5°	798.5	770.1	636.8	447.7	405.6	453.6	641.7	767.1	772.0	733.8	662.3
65°	721.1	694.6	566.3	389.9	361.5	399.7	571.2	691.7	696.6	653.5	588.8
67.5°	640.7	619.2	490.8	345.8	319.4	348.8	500.6	615.3	618.2	576.1	517.3
70°	560.4	541.8	424.2	297.8	278.2	298.8	431.1	531.0	536.9	491.8	444.8
72.5°	478.1	463.4	359.6	247.9	230.2	247.9	363.5	453.6	457.5	420.3	374.3
75°	394.8	384.0	293.9	198.9	185.2	197.9	295.9	376.2	376.2	340.9	304.7
77.5°	314.5	306.7	225.3	152.8	143.0	150.9	226.3	297.8	295.9	268.4	240.0
80°	235.1	229.3	161.7	110.7	103.8	107.8	161.7	220.4	220.4	200.8	166.6
82.5°	168.5	161.7	106.8	72.5	68.6	70.5	104.8	153.8	156.8	142.1	112.7
85°	111.7	96.0	57.8	40.2	37.2	38.2	54.9	89.2	98.0	82.3	58.8
87.5°	49.0	32.3	14.7	5.9	2.9	3.9	11.8	28.4	37.2	24.5	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°	1826.2	1826.2	1826.2	1826.2	1826.2	1826.2
2.5°	1832.1	1816.4	1822.3	1826.2	1822.3	1839.9
5°	1830.1	1823.2	1822.3	1827.2	1819.3	1837.0
7.5°	1827.2	1823.2	1822.3	1824.2	1814.4	1831.1
10°	1820.3	1814.4	1816.4	1819.3	1806.6	1822.3
12.5°	1807.6	1801.7	1802.7	1812.5	1794.8	1808.6
15°	1786.0	1779.2	1786.0	1796.8	1781.1	1792.9
17.5°	1757.6	1746.8	1758.6	1775.2	1763.5	1774.3
20°	1721.4	1704.7	1717.4	1747.8	1737.0	1750.7
22.5°	1677.3	1656.7	1669.4	1713.5	1710.6	1725.3
25°	1627.3	1602.8	1620.4	1674.3	1680.2	1693.9
27.5°	1571.5	1544.0	1567.5	1631.2	1644.9	1660.6
30°	1510.7	1481.3	1508.8	1583.2	1603.8	1620.4
32.5°	1448.0	1415.7	1447.0	1529.3	1558.7	1580.3
35°	1382.4	1349.1	1384.3	1473.5	1508.8	1530.3
37.5°	1311.8	1279.5	1317.7	1414.7	1456.8	1478.4
40°	1239.3	1203.1	1246.2	1345.1	1401.0	1426.5
42.5°	1164.9	1119.8	1172.7	1279.5	1340.2	1365.7
45°	1081.6	1018.9	1090.4	1209.9	1273.6	1302.0
47.5°	998.3	935.6	1008.1	1135.5	1204.1	1229.5
50°	918.0	864.1	921.9	1054.2	1133.5	1165.9
52.5°	844.5	800.4	849.4	974.8	1061.0	1093.4
55°	775.9	741.6	781.8	896.4	984.6	1021.8
57.5°	711.3	689.7	717.2	822.0	914.1	949.3
60°	650.5	635.8	655.4	748.5	830.8	873.9
62.5°	590.8	582.9	597.6	671.1	753.4	798.5
65°	533.0	531.0	538.8	603.5	672.1	721.1
67.5°	475.2	474.2	479.1	532.0	592.7	640.7
70°	417.4	423.2	420.3	454.6	513.4	560.4
72.5°	358.6	367.4	362.5	384.0	440.9	478.1
75°	292.9	304.7	294.9	319.4	354.7	394.8
77.5°	225.3	238.1	226.3	247.9	286.1	314.5
80°	161.7	173.4	163.6	180.3	213.6	235.1
82.5°	101.9	110.7	102.9	119.5	152.8	168.5
85°	45.1	50.0	51.9	64.7	94.1	111.7
87.5°	2.0	1.0	2.0	12.7	33.3	49.0
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)