

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: P520792

Luminaire Tested: **8WSLA-75-L950-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: P520792
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-L950-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

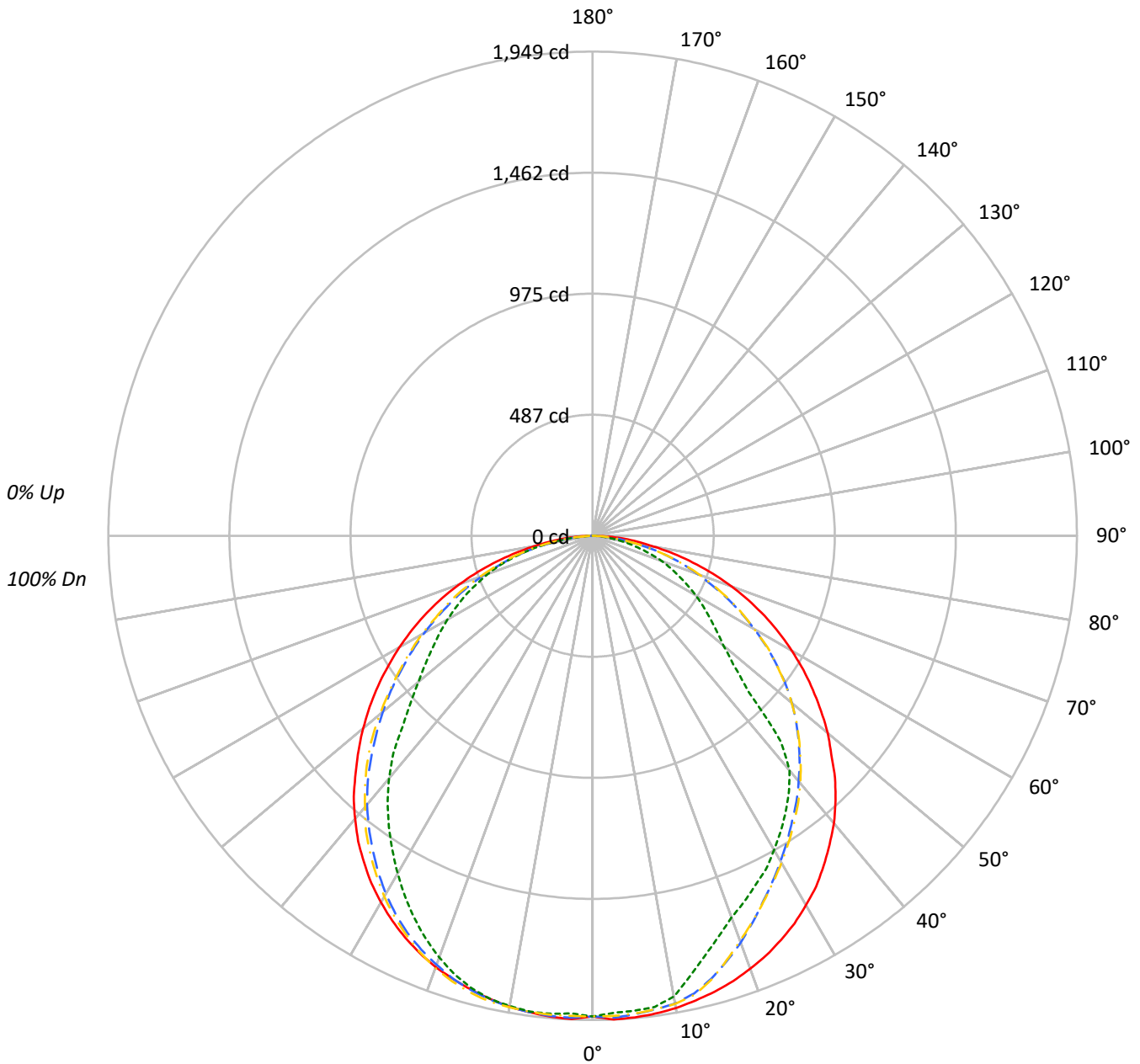
Lumens per Lamp: N/A
Luminaire Lumens: 5190.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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°	5206	5206	5206	5206
5°	5257	5184	5249	5217
10°	5275	5145	5261	5252
15°	5292	4872	5268	5251
20°	5311	4681	5291	5172
25°	5328	4604	5301	5042
30°	5334	4538	5295	4876
35°	5326	4450	5271	4695
40°	5309	4331	5225	4477
45°	5249	3365	5131	4108
50°	5171	2881	5045	3832
55°	5079	2698	4947	3686
60°	4983	2575	4832	3625
65°	4864	2439	4699	3582
70°	4671	2319	4475	3528
75°	4349	2040	4144	3356
80°	3860	1705	3618	2847
85°	3653	1216	3205	1633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	3.5
10°-20°	524.3	10.1
20°-30°	783.5	15.1
30°-40°	932.6	18.0
40°-50°	932.2	18.0
50°-60°	802.1	15.5
60°-70°	603.7	11.6
70°-80°	344.0	6.6
80°-90°	83.7	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°	1491.6	28.7
0°-40°	2424.2	46.7
0°-60°	4158.5	80.1
0°-90°	5190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5190.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1935	1935	1935	1935	1935	
5°	1946	1919	1943	1932	1946	185
15°	1899	1749	1891	1885	1899	537
25°	1794	1551	1785	1698	1794	828
35°	1621	1354	1605	1429	1621	1014
45°	1379	884	1348	1079	1379	1062
55°	1082	575	1054	786	1082	968
65°	764	383	738	562	764	754
75°	418	196	399	323	418	443
85°	118	39	104	53	118	129
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°	1934.7	1934.7	1934.7	1934.7	1934.7	1934.7	1934.7	1934.7	1934.7	1934.7	1934.7
2.5°	1949.2	1931.5	1941.9	1938.8	1922.2	1928.4	1934.7	1928.4	1947.1	1930.5	1941.9
5°	1946.1	1927.4	1933.6	1927.4	1919.1	1921.2	1930.5	1924.3	1943.0	1925.3	1939.9
7.5°	1939.9	1917.0	1923.2	1920.1	1912.9	1913.9	1923.2	1918.1	1934.7	1918.1	1934.7
10°	1930.5	1906.6	1911.8	1898.3	1882.8	1894.2	1912.9	1907.7	1925.3	1906.6	1925.3
12.5°	1916.0	1892.1	1886.9	1842.3	1814.3	1836.1	1893.1	1893.1	1909.8	1892.1	1911.8
15°	1899.4	1873.4	1845.4	1777.9	1748.9	1770.7	1849.6	1876.5	1891.1	1873.4	1893.1
17.5°	1879.7	1849.6	1795.6	1716.7	1689.7	1711.5	1792.5	1851.6	1870.3	1851.6	1869.3
20°	1854.7	1819.5	1742.6	1652.3	1634.7	1654.4	1735.4	1821.5	1847.5	1824.6	1837.1
22.5°	1827.8	1785.2	1683.5	1602.5	1594.2	1606.7	1680.4	1784.2	1818.4	1794.5	1802.8
25°	1794.5	1744.7	1624.3	1556.9	1550.6	1557.9	1626.4	1740.6	1785.2	1760.3	1763.4
27.5°	1759.3	1705.3	1568.3	1518.5	1512.2	1515.3	1572.4	1691.8	1746.8	1721.9	1716.7
30°	1716.7	1658.6	1512.2	1466.6	1460.3	1471.8	1520.5	1642.0	1704.2	1679.3	1663.8
32.5°	1674.1	1607.7	1457.2	1421.9	1409.5	1419.9	1466.6	1590.1	1657.5	1631.6	1605.6
35°	1621.2	1553.7	1400.1	1364.8	1354.5	1365.9	1412.6	1536.1	1604.6	1578.7	1543.4
37.5°	1566.2	1496.7	1348.2	1316.1	1297.4	1310.9	1357.6	1480.1	1549.6	1522.6	1479.0
40°	1511.2	1436.5	1290.1	1256.9	1233.0	1252.8	1300.5	1420.9	1487.3	1462.4	1412.6
42.5°	1446.8	1376.3	1233.0	1186.3	1118.9	1182.2	1239.3	1361.7	1423.0	1399.1	1338.9
45°	1379.4	1311.9	1172.8	1059.7	884.3	1070.1	1177.0	1299.5	1348.2	1325.4	1260.0
47.5°	1302.6	1245.5	1111.6	939.3	769.1	949.7	1113.7	1240.3	1277.7	1252.8	1180.1
50°	1235.1	1179.1	1047.2	837.6	688.1	849.0	1046.2	1173.9	1205.0	1182.2	1101.2
52.5°	1158.3	1109.5	977.7	747.3	627.9	758.7	975.6	1105.4	1130.3	1103.3	1022.3
55°	1082.5	1038.9	904.0	667.4	575.0	677.8	901.9	1034.8	1054.5	1023.4	939.3
57.5°	1005.7	966.3	828.3	595.8	526.2	607.2	833.4	962.1	975.6	936.2	859.4
60°	925.8	892.6	751.4	532.4	478.5	541.8	749.4	889.5	897.8	855.2	781.5
62.5°	845.9	815.8	674.6	474.3	429.7	480.6	679.8	812.7	817.9	777.4	701.6
65°	763.9	735.9	599.9	413.1	383.0	423.5	605.1	732.8	738.0	692.3	623.8
67.5°	678.8	656.0	520.0	366.4	338.4	369.5	530.4	651.8	654.9	610.3	548.0
70°	593.7	574.0	449.4	315.5	294.8	316.6	456.7	562.5	568.8	521.0	471.2
72.5°	506.5	490.9	380.9	262.6	243.9	262.6	385.1	480.6	484.7	445.3	396.5
75°	418.3	406.9	311.4	210.7	196.2	209.7	313.4	398.6	398.6	361.2	322.8
77.5°	333.2	324.9	238.7	161.9	151.5	159.8	239.8	315.5	313.4	284.4	254.3
80°	249.1	242.9	171.3	117.3	110.0	114.2	171.3	233.5	233.5	212.8	176.4
82.5°	178.5	171.3	113.1	76.8	72.7	74.7	111.1	163.0	166.1	150.5	119.4
85°	118.3	101.7	61.2	42.6	39.4	40.5	58.1	94.4	103.8	87.2	62.3
87.5°	51.9	34.3	15.6	6.2	3.1	4.2	12.5	30.1	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°	1934.7	1934.7	1934.7	1934.7	1934.7	1934.7
2.5°	1940.9	1924.3	1930.5	1934.7	1930.5	1949.2
5°	1938.8	1931.5	1930.5	1935.7	1927.4	1946.1
7.5°	1935.7	1931.5	1930.5	1932.6	1922.2	1939.9
10°	1928.4	1922.2	1924.3	1927.4	1913.9	1930.5
12.5°	1914.9	1908.7	1909.8	1920.1	1901.4	1916.0
15°	1892.1	1884.8	1892.1	1903.5	1886.9	1899.4
17.5°	1862.0	1850.6	1863.0	1880.7	1868.2	1879.7
20°	1823.6	1806.0	1819.5	1851.6	1840.2	1854.7
22.5°	1776.9	1755.1	1768.6	1815.3	1812.2	1827.8
25°	1724.0	1698.0	1716.7	1773.8	1780.0	1794.5
27.5°	1664.8	1635.7	1660.7	1728.1	1742.6	1759.3
30°	1600.5	1569.3	1598.4	1677.3	1699.1	1716.7
32.5°	1534.0	1499.8	1533.0	1620.2	1651.3	1674.1
35°	1464.5	1429.2	1466.6	1561.0	1598.4	1621.2
37.5°	1389.8	1355.5	1396.0	1498.7	1543.4	1566.2
40°	1313.0	1274.6	1320.2	1425.0	1484.2	1511.2
42.5°	1234.1	1186.3	1242.4	1355.5	1419.9	1446.8
45°	1145.9	1079.4	1155.2	1281.8	1349.3	1379.4
47.5°	1057.6	991.2	1068.0	1202.9	1275.6	1302.6
50°	972.5	915.4	976.7	1116.8	1200.9	1235.1
52.5°	894.7	848.0	899.9	1032.7	1124.1	1158.3
55°	822.0	785.7	828.3	949.7	1043.1	1082.5
57.5°	753.5	730.7	759.7	870.8	968.4	1005.7
60°	689.2	673.6	694.4	793.0	880.1	925.8
62.5°	625.9	617.6	633.1	711.0	798.2	845.9
65°	564.6	562.5	570.8	639.4	712.0	763.9
67.5°	503.4	502.3	507.5	563.6	627.9	678.8
70°	442.1	448.4	445.3	481.6	543.9	593.7
72.5°	379.9	389.2	384.0	406.9	467.1	506.5
75°	310.3	322.8	312.4	338.4	375.7	418.3
77.5°	238.7	252.2	239.8	262.6	303.1	333.2
80°	171.3	183.7	173.3	191.0	226.3	249.1
82.5°	107.9	117.3	109.0	126.6	161.9	178.5
85°	47.7	52.9	55.0	68.5	99.6	118.3
87.5°	2.1	1.0	2.1	13.5	35.3	51.9
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)