

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: P520774

Luminaire Tested: **8WSLA-75-L835-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: P520774
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-L835-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

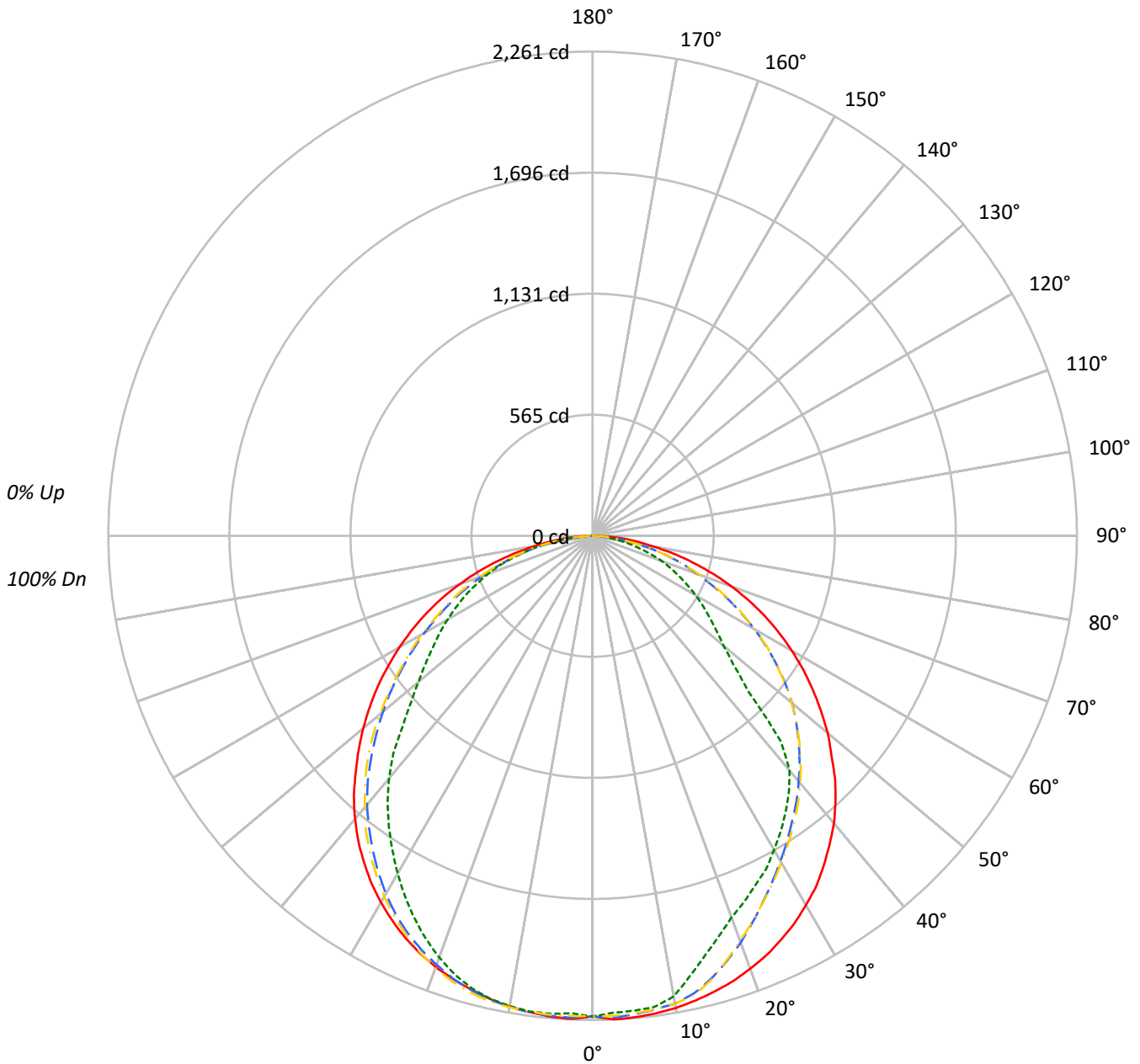
Lumens per Lamp: N/A
Luminaire Lumens: 6020.0 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84				84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70				70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60				60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51				51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44				44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39				39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34				34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28				28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6039	6039	6039	6039
5°	6098	6013	6088	6052
10°	6119	5967	6102	6092
15°	6138	5651	6111	6091
20°	6161	5430	6137	5999
25°	6180	5340	6148	5848
30°	6187	5263	6142	5656
35°	6178	5161	6114	5446
40°	6158	5024	6060	5193
45°	6089	3903	5952	4765
50°	5997	3342	5851	4445
55°	5891	3129	5739	4275
60°	5780	2987	5605	4205
65°	5642	2828	5450	4155
70°	5418	2690	5190	4092
75°	5045	2365	4807	3893
80°	4477	1977	4198	3302
85°	4236	1411	3717	1896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.2	3.5
10°-20°	608.2	10.1
20°-30°	908.7	15.1
30°-40°	1081.7	18.0
40°-50°	1081.3	18.0
50°-60°	930.4	15.5
60°-70°	700.3	11.6
70°-80°	399.1	6.6
80°-90°	97.1	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°	1730.1	28.7
0°-40°	2811.9	46.7
0°-60°	4823.5	80.1
0°-90°	6020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6020.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2244	2244	2244	2244	2244	
5°	2257	2226	2254	2240	2257	215
15°	2203	2029	2194	2186	2203	622
25°	2082	1799	2071	1970	2082	960
35°	1880	1571	1861	1658	1880	1177
45°	1600	1026	1564	1252	1600	1232
55°	1256	667	1223	911	1256	1123
65°	886	444	856	652	886	875
75°	485	228	462	374	485	514
85°	137	46	120	61	137	149
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°	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1
2.5°	2260.9	2240.4	2252.5	2248.9	2229.6	2236.8	2244.1	2236.8	2258.5	2239.2	2252.5
5°	2257.3	2235.6	2242.9	2235.6	2226.0	2228.4	2239.2	2232.0	2253.7	2233.2	2250.1
7.5°	2250.1	2223.6	2230.8	2227.2	2218.8	2220.0	2230.8	2224.8	2244.1	2224.8	2244.1
10°	2239.2	2211.6	2217.6	2201.9	2183.9	2197.1	2218.8	2212.8	2233.2	2211.6	2233.2
12.5°	2222.4	2194.7	2188.7	2136.9	2104.4	2129.7	2195.9	2195.9	2215.2	2194.7	2217.6
15°	2203.1	2173.0	2140.5	2062.3	2028.6	2053.8	2145.3	2176.6	2193.5	2173.0	2195.9
17.5°	2180.3	2145.3	2082.7	1991.2	1959.9	1985.2	2079.1	2147.7	2169.4	2147.7	2168.2
20°	2151.4	2110.4	2021.3	1916.6	1896.1	1919.0	2012.9	2112.8	2142.9	2116.4	2130.9
22.5°	2120.1	2070.7	1952.7	1858.8	1849.2	1863.6	1949.1	2069.5	2109.2	2081.5	2091.2
25°	2081.5	2023.7	1884.1	1805.8	1798.6	1807.0	1886.5	2018.9	2070.7	2041.8	2045.4
27.5°	2040.6	1978.0	1819.1	1761.3	1754.1	1757.7	1823.9	1962.3	2026.2	1997.3	1991.2
30°	1991.2	1923.8	1754.1	1701.1	1693.9	1707.1	1763.7	1904.6	1976.8	1947.9	1929.8
32.5°	1941.9	1864.8	1690.3	1649.3	1634.9	1646.9	1701.1	1844.4	1922.6	1892.5	1862.4
35°	1880.5	1802.2	1624.1	1583.1	1571.1	1584.3	1638.5	1781.8	1861.2	1831.1	1790.2
37.5°	1816.7	1736.0	1563.9	1526.5	1504.9	1520.5	1574.7	1716.8	1797.4	1766.1	1715.5
40°	1752.9	1666.2	1496.4	1457.9	1430.2	1453.1	1508.5	1648.1	1725.2	1696.3	1638.5
42.5°	1678.2	1596.4	1430.2	1376.1	1297.8	1371.2	1437.4	1579.5	1650.5	1622.8	1553.0
45°	1600.0	1521.7	1360.4	1229.2	1025.7	1241.2	1365.2	1507.3	1563.9	1537.4	1461.5
47.5°	1510.9	1444.7	1289.4	1089.5	892.1	1101.6	1291.8	1438.7	1482.0	1453.1	1368.8
50°	1432.6	1367.6	1214.7	971.5	798.2	984.8	1213.5	1361.6	1397.7	1371.2	1277.3
52.5°	1343.5	1287.0	1134.1	866.8	728.4	880.0	1131.7	1282.1	1311.0	1279.7	1185.8
55°	1255.7	1205.1	1048.6	774.1	667.0	786.1	1046.2	1200.3	1223.2	1187.0	1089.5
57.5°	1166.6	1120.8	960.7	691.0	610.4	704.3	966.7	1116.0	1131.7	1085.9	996.8
60°	1073.9	1035.3	871.6	617.6	555.0	628.4	869.2	1031.7	1041.4	992.0	906.5
62.5°	981.2	946.3	782.5	550.2	498.4	557.4	788.6	942.6	948.7	901.7	813.8
65°	886.1	853.6	695.9	479.1	444.2	491.2	701.9	849.9	856.0	803.0	723.5
67.5°	787.3	760.9	603.2	425.0	392.5	428.6	615.2	756.0	759.7	707.9	635.7
70°	688.6	665.8	521.3	366.0	341.9	367.2	529.7	652.5	659.7	604.4	546.6
72.5°	587.5	569.4	441.8	304.6	282.9	304.6	446.6	557.4	562.2	516.5	459.9
75°	485.2	471.9	361.2	244.4	227.5	243.2	363.6	462.3	462.3	419.0	374.4
77.5°	386.4	376.8	276.9	187.8	175.8	185.4	278.1	366.0	363.6	329.9	295.0
80°	288.9	281.7	198.6	136.0	127.6	132.4	198.6	270.9	270.9	246.8	204.7
82.5°	207.1	198.6	131.2	89.1	84.3	86.7	128.8	189.0	192.6	174.6	138.4
85°	137.2	118.0	71.0	49.4	45.7	47.0	67.4	109.6	120.4	101.1	72.2
87.5°	60.2	39.7	18.1	7.2	3.6	4.8	14.4	34.9	45.7	30.1	9.6
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°	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1
2.5°	2251.3	2232.0	2239.2	2244.1	2239.2	2260.9
5°	2248.9	2240.4	2239.2	2245.3	2235.6	2257.3
7.5°	2245.3	2240.4	2239.2	2241.6	2229.6	2250.1
10°	2236.8	2229.6	2232.0	2235.6	2220.0	2239.2
12.5°	2221.2	2214.0	2215.2	2227.2	2205.5	2222.4
15°	2194.7	2186.3	2194.7	2207.9	2188.7	2203.1
17.5°	2159.8	2146.5	2161.0	2181.5	2167.0	2180.3
20°	2115.2	2094.8	2110.4	2147.7	2134.5	2151.4
22.5°	2061.1	2035.8	2051.4	2105.6	2102.0	2120.1
25°	1999.7	1969.6	1991.2	2057.5	2064.7	2081.5
27.5°	1931.0	1897.3	1926.2	2004.5	2021.3	2040.6
30°	1856.4	1820.3	1854.0	1945.5	1970.8	1991.2
32.5°	1779.4	1739.6	1778.2	1879.3	1915.4	1941.9
35°	1698.7	1657.8	1701.1	1810.7	1854.0	1880.5
37.5°	1612.0	1572.3	1619.2	1738.4	1790.2	1816.7
40°	1522.9	1478.4	1531.4	1652.9	1721.6	1752.9
42.5°	1431.4	1376.1	1441.1	1572.3	1646.9	1678.2
45°	1329.1	1252.0	1339.9	1486.8	1565.1	1600.0
47.5°	1226.8	1149.7	1238.8	1395.3	1479.6	1510.9
50°	1128.0	1061.8	1132.9	1295.4	1392.9	1432.6
52.5°	1037.8	983.6	1043.8	1197.9	1303.8	1343.5
55°	953.5	911.3	960.7	1101.6	1209.9	1255.7
57.5°	874.0	847.5	881.2	1010.1	1123.2	1166.6
60°	799.4	781.3	805.4	919.8	1020.9	1073.9
62.5°	725.9	716.3	734.4	824.7	925.8	981.2
65°	654.9	652.5	662.1	741.6	825.9	886.1
67.5°	583.9	582.7	588.7	653.7	728.4	787.3
70°	512.9	520.1	516.5	558.6	630.8	688.6
72.5°	440.6	451.5	445.4	471.9	541.8	587.5
75°	360.0	374.4	362.4	392.5	435.8	485.2
77.5°	276.9	292.5	278.1	304.6	351.5	386.4
80°	198.6	213.1	201.1	221.5	262.4	288.9
82.5°	125.2	136.0	126.4	146.9	187.8	207.1
85°	55.4	61.4	63.8	79.5	115.6	137.2
87.5°	2.4	1.2	2.4	15.7	40.9	60.2
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)