

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: P520780

Luminaire Tested: **8WSLA-75-L850-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: P520780
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-L850-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

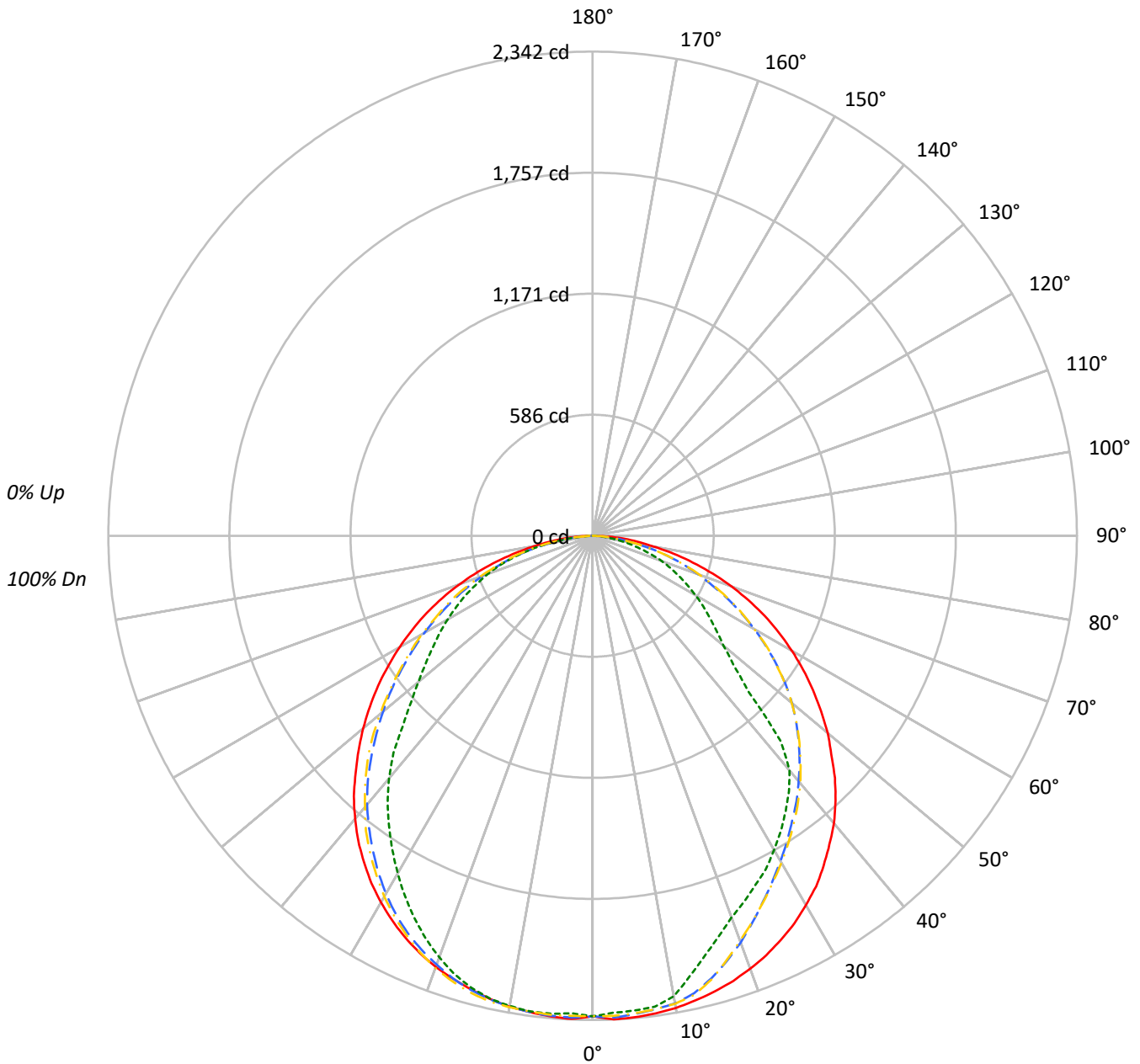
Lumens per Lamp: N/A
Luminaire Lumens: 6235.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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°	6254	6254	6254	6254
5°	6315	6228	6305	6268
10°	6337	6181	6320	6310
15°	6357	5853	6329	6308
20°	6381	5624	6356	6213
25°	6401	5531	6368	6057
30°	6408	5451	6362	5858
35°	6398	5345	6333	5640
40°	6378	5204	6277	5379
45°	6306	4043	6164	4935
50°	6212	3461	6060	4604
55°	6101	3241	5943	4428
60°	5986	3094	5805	4355
65°	5843	2930	5645	4303
70°	5611	2786	5376	4238
75°	5225	2451	4978	4032
80°	4638	2049	4348	3420
85°	4387	1463	3850	1964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.8	3.5
10°-20°	629.9	10.1
20°-30°	941.2	15.1
30°-40°	1120.4	18.0
40°-50°	1119.9	18.0
50°-60°	963.6	15.5
60°-70°	725.3	11.6
70°-80°	413.3	6.6
80°-90°	100.6	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°	1791.9	28.7
0°-40°	2912.3	46.7
0°-60°	4995.8	80.1
0°-90°	6235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6235.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2324	2324	2324	2324	2324	
5°	2338	2306	2334	2320	2338	223
15°	2282	2101	2272	2264	2282	645
25°	2156	1863	2145	2040	2156	994
35°	1948	1627	1928	1717	1948	1219
45°	1657	1062	1620	1297	1657	1276
55°	1300	691	1267	944	1300	1163
65°	918	460	886	676	918	906
75°	502	236	479	388	502	532
85°	142	47	125	64	142	155
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°	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2
2.5°	2341.7	2320.5	2332.9	2329.2	2309.2	2316.7	2324.2	2316.7	2339.2	2319.2	2332.9
5°	2337.9	2315.5	2323.0	2315.5	2305.5	2308.0	2319.2	2311.7	2334.2	2313.0	2330.4
7.5°	2330.4	2303.0	2310.5	2306.7	2298.0	2299.3	2310.5	2304.3	2324.2	2304.3	2324.2
10°	2319.2	2290.5	2296.8	2280.6	2261.9	2275.6	2298.0	2291.8	2313.0	2290.5	2313.0
12.5°	2301.8	2273.1	2266.8	2213.2	2179.6	2205.7	2274.3	2274.3	2294.3	2273.1	2296.8
15°	2281.8	2250.6	2217.0	2135.9	2101.0	2127.2	2222.0	2254.4	2271.8	2250.6	2274.3
17.5°	2258.1	2222.0	2157.1	2062.4	2029.9	2056.1	2153.4	2224.5	2246.9	2224.5	2245.6
20°	2228.2	2185.8	2093.5	1985.0	1963.9	1987.5	2084.8	2188.3	2219.5	2192.0	2207.0
22.5°	2195.8	2144.6	2022.5	1925.2	1915.2	1930.2	2018.7	2143.4	2184.6	2155.9	2165.8
25°	2155.9	2096.0	1951.4	1870.3	1862.9	1871.6	1953.9	2091.0	2144.6	2114.7	2118.5
27.5°	2113.5	2048.6	1884.1	1824.2	1816.7	1820.5	1889.0	2032.4	2098.5	2068.6	2062.4
30°	2062.4	1992.5	1816.7	1761.9	1754.4	1768.1	1826.7	1972.6	2047.4	2017.5	1998.8
32.5°	2011.2	1931.4	1750.6	1708.2	1693.3	1705.7	1761.9	1910.2	1991.3	1960.1	1928.9
35°	1947.6	1866.6	1682.1	1639.7	1627.2	1640.9	1697.0	1845.4	1927.7	1896.5	1854.1
37.5°	1881.6	1798.0	1619.7	1581.1	1558.6	1574.8	1630.9	1778.1	1861.6	1829.2	1776.8
40°	1815.5	1725.7	1549.9	1510.0	1481.3	1505.0	1562.4	1707.0	1786.8	1756.9	1697.0
42.5°	1738.2	1653.4	1481.3	1425.2	1344.1	1420.2	1488.8	1635.9	1709.5	1680.8	1608.5
45°	1657.1	1576.1	1409.0	1273.1	1062.3	1285.5	1414.0	1561.1	1619.7	1592.3	1513.7
47.5°	1564.8	1496.3	1335.4	1128.4	923.9	1140.9	1337.9	1490.0	1534.9	1505.0	1417.7
50°	1483.8	1416.5	1258.1	1006.2	826.7	1020.0	1256.9	1410.2	1447.6	1420.2	1322.9
52.5°	1391.5	1332.9	1174.6	897.8	754.4	911.5	1172.1	1327.9	1357.9	1325.4	1228.2
55°	1300.5	1248.1	1086.0	801.7	690.8	814.2	1083.5	1243.1	1266.8	1229.4	1128.4
57.5°	1208.2	1160.9	995.0	715.7	632.2	729.4	1001.3	1155.9	1172.1	1124.7	1032.4
60°	1112.2	1072.3	902.7	639.7	574.8	650.9	900.3	1068.6	1078.6	1027.4	938.9
62.5°	1016.2	980.1	810.5	569.8	516.2	577.3	816.7	976.3	982.5	933.9	842.9
65°	917.7	884.0	720.7	496.3	460.1	508.7	726.9	880.3	886.5	831.7	749.4
67.5°	815.5	788.0	624.7	440.2	406.5	443.9	637.2	783.0	786.8	733.2	658.4
70°	713.2	689.5	539.9	379.1	354.1	380.3	548.6	675.8	683.3	625.9	566.1
72.5°	608.5	589.8	457.6	315.5	293.0	315.5	462.6	577.3	582.3	534.9	476.3
75°	502.5	488.8	374.1	253.1	235.7	251.9	376.6	478.8	478.8	433.9	387.8
77.5°	400.3	390.3	286.8	194.5	182.0	192.0	288.0	379.1	376.6	341.6	305.5
80°	299.3	291.8	205.7	140.9	132.2	137.2	205.7	280.6	280.6	255.6	212.0
82.5°	214.5	205.7	135.9	92.3	87.3	89.8	133.4	195.8	199.5	180.8	143.4
85°	142.1	122.2	73.6	51.1	47.4	48.6	69.8	113.5	124.7	104.7	74.8
87.5°	62.3	41.1	18.7	7.5	3.7	5.0	15.0	36.2	47.4	31.2	10.0
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°	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2
2.5°	2331.7	2311.7	2319.2	2324.2	2319.2	2341.7
5°	2329.2	2320.5	2319.2	2325.4	2315.5	2337.9
7.5°	2325.4	2320.5	2319.2	2321.7	2309.2	2330.4
10°	2316.7	2309.2	2311.7	2315.5	2299.3	2319.2
12.5°	2300.5	2293.0	2294.3	2306.7	2284.3	2301.8
15°	2273.1	2264.4	2273.1	2286.8	2266.8	2281.8
17.5°	2236.9	2223.2	2238.2	2259.4	2244.4	2258.1
20°	2190.8	2169.6	2185.8	2224.5	2210.7	2228.2
22.5°	2134.7	2108.5	2124.7	2180.8	2177.1	2195.8
25°	2071.1	2039.9	2062.4	2130.9	2138.4	2155.9
27.5°	2000.0	1965.1	1995.0	2076.1	2093.5	2113.5
30°	1922.7	1885.3	1920.2	2015.0	2041.2	2062.4
32.5°	1842.9	1801.8	1841.7	1946.4	1983.8	2011.2
35°	1759.4	1717.0	1761.9	1875.3	1920.2	1947.6
37.5°	1669.6	1628.4	1677.1	1800.5	1854.1	1881.6
40°	1577.3	1531.2	1586.0	1712.0	1783.1	1815.5
42.5°	1482.6	1425.2	1492.5	1628.4	1705.7	1738.2
45°	1376.6	1296.8	1387.8	1539.9	1621.0	1657.1
47.5°	1270.6	1190.8	1283.0	1445.1	1532.4	1564.8
50°	1168.3	1099.8	1173.3	1341.7	1442.7	1483.8
52.5°	1074.8	1018.7	1081.1	1240.7	1350.4	1391.5
55°	987.5	943.9	995.0	1140.9	1253.1	1300.5
57.5°	905.2	877.8	912.7	1046.1	1163.3	1208.2
60°	827.9	809.2	834.2	952.6	1057.4	1112.2
62.5°	751.9	741.9	760.6	854.1	958.9	1016.2
65°	678.3	675.8	685.8	768.1	855.4	917.7
67.5°	604.7	603.5	609.7	677.1	754.4	815.5
70°	531.2	538.7	534.9	578.6	653.4	713.2
72.5°	456.4	467.6	461.3	488.8	561.1	608.5
75°	372.8	387.8	375.3	406.5	451.4	502.5
77.5°	286.8	303.0	288.0	315.5	364.1	400.3
80°	205.7	220.7	208.2	229.4	271.8	299.3
82.5°	129.7	140.9	130.9	152.1	194.5	214.5
85°	57.4	63.6	66.1	82.3	119.7	142.1
87.5°	2.5	1.2	2.5	16.2	42.4	62.3
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)