

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: P520777

Luminaire Tested: **8WSLA-75-L840-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: P520777
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-L840-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

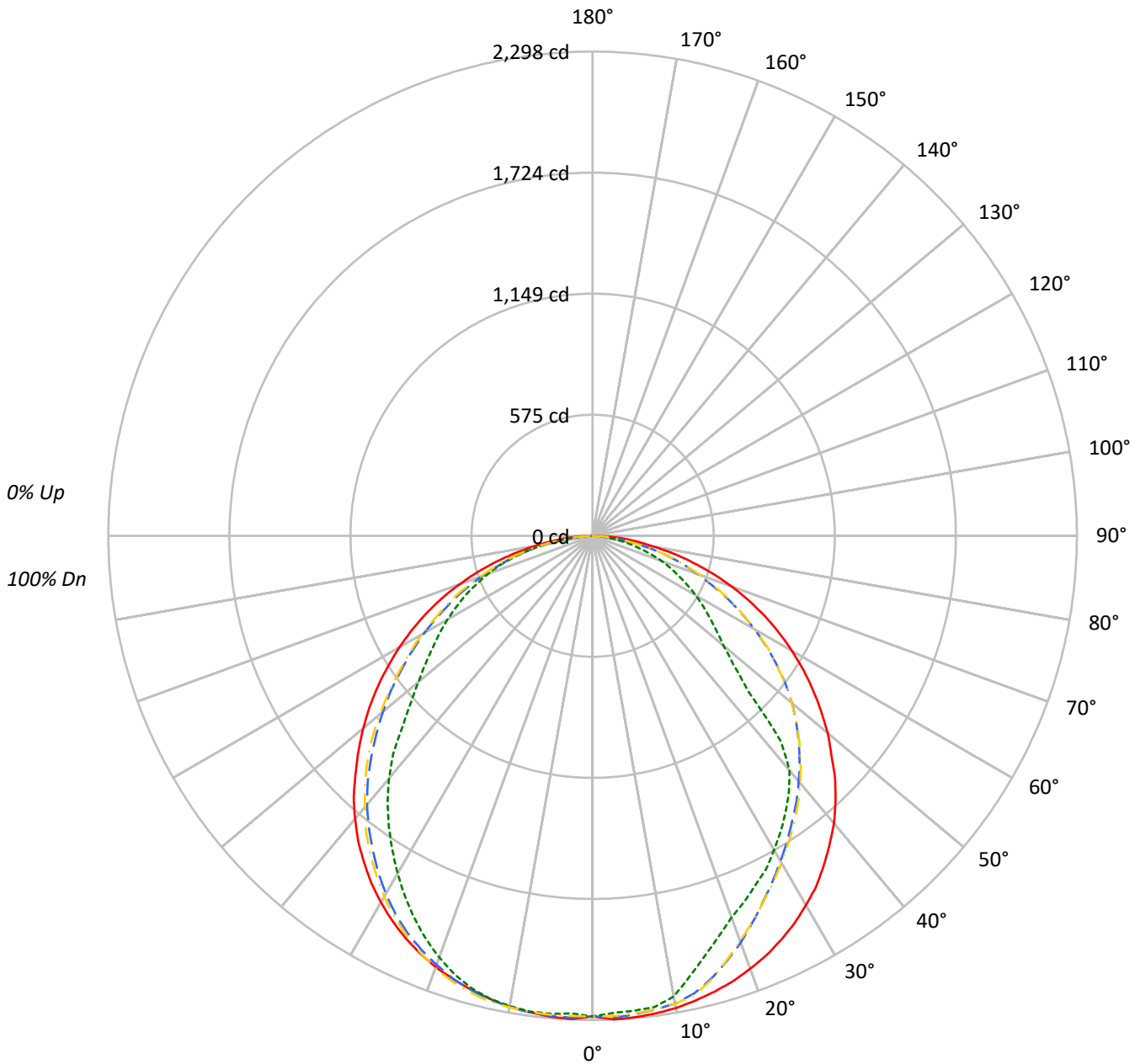
Lumens per Lamp: N/A
Luminaire Lumens: 6119.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 46.6
Input Voltage (V): NR
Input Current (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				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			
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°	6138	6138	6138	6138
5°	6198	6112	6188	6152
10°	6219	6066	6202	6193
15°	6239	5744	6211	6191
20°	6262	5519	6238	6097
25°	6282	5428	6249	5944
30°	6289	5350	6243	5749
35°	6279	5246	6215	5535
40°	6259	5107	6160	5279
45°	6189	3968	6049	4843
50°	6096	3396	5948	4518
55°	5988	3180	5833	4346
60°	5874	3036	5697	4274
65°	5734	2875	5540	4223
70°	5508	2734	5276	4159
75°	5127	2405	4886	3957
80°	4551	2010	4266	3357
85°	4307	1436	3779	1927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.7	3.5
10°-20°	618.2	10.1
20°-30°	923.7	15.1
30°-40°	1099.5	18.0
40°-50°	1099.0	18.0
50°-60°	945.7	15.5
60°-70°	711.8	11.6
70°-80°	405.6	6.6
80°-90°	98.7	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°	1758.6	28.7
0°-40°	2858.1	46.7
0°-60°	4902.9	80.1
0°-90°	6119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6119.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2281	2281	2281	2281	2281	
5°	2294	2263	2291	2277	2294	218
15°	2239	2062	2230	2222	2239	633
25°	2116	1828	2105	2002	2116	976
35°	1911	1597	1892	1685	1911	1196
45°	1626	1043	1590	1273	1626	1252
55°	1276	678	1243	926	1276	1141
65°	901	452	870	663	901	889
75°	493	231	470	381	493	522
85°	140	46	122	62	140	152
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°	2281.0	2281.0	2281.0	2281.0	2281.0	2281.0	2281.0	2281.0	2281.0	2281.0	2281.0
2.5°	2298.1	2277.3	2289.5	2285.9	2266.3	2273.6	2281.0	2273.6	2295.6	2276.1	2289.5
5°	2294.4	2272.4	2279.7	2272.4	2262.6	2265.1	2276.1	2268.7	2290.8	2269.9	2287.1
7.5°	2287.1	2260.2	2267.5	2263.8	2255.3	2256.5	2267.5	2261.4	2281.0	2261.4	2281.0
10°	2276.1	2247.9	2254.0	2238.1	2219.8	2233.2	2255.3	2249.1	2269.9	2247.9	2269.9
12.5°	2258.9	2230.8	2224.7	2172.1	2139.0	2164.7	2232.0	2232.0	2251.6	2230.8	2254.0
15°	2239.4	2208.8	2175.7	2096.2	2061.9	2087.6	2180.6	2212.4	2229.6	2208.8	2232.0
17.5°	2216.1	2180.6	2117.0	2024.0	1992.2	2017.9	2113.3	2183.1	2205.1	2183.1	2203.9
20°	2186.7	2145.1	2054.6	1948.1	1927.3	1950.6	2046.0	2147.6	2178.2	2151.2	2165.9
22.5°	2154.9	2104.7	1984.8	1889.4	1879.6	1894.3	1981.2	2103.5	2143.9	2115.8	2125.6
25°	2115.8	2057.0	1915.1	1835.5	1828.2	1836.8	1917.5	2052.1	2104.7	2075.4	2079.1
27.5°	2074.2	2010.5	1849.0	1790.3	1782.9	1786.6	1853.9	1994.6	2059.5	2030.1	2024.0
30°	2024.0	1955.5	1782.9	1729.1	1721.7	1735.2	1792.7	1935.9	2009.3	1979.9	1961.6
32.5°	1973.8	1895.5	1718.1	1676.5	1661.8	1674.0	1729.1	1874.7	1954.2	1923.6	1893.1
35°	1911.4	1831.9	1650.8	1609.2	1596.9	1610.4	1665.4	1811.1	1891.8	1861.2	1819.6
37.5°	1846.6	1764.6	1589.6	1551.6	1529.6	1545.5	1600.6	1745.0	1827.0	1795.2	1743.8
40°	1781.7	1693.6	1521.0	1481.9	1453.7	1477.0	1533.3	1675.2	1753.5	1724.2	1665.4
42.5°	1705.8	1622.6	1453.7	1398.7	1319.1	1393.8	1461.1	1605.5	1677.7	1649.5	1578.6
45°	1626.3	1546.7	1382.8	1249.4	1042.6	1261.6	1387.7	1532.1	1589.6	1562.7	1485.6
47.5°	1535.7	1468.4	1310.6	1107.4	906.8	1119.7	1313.0	1462.3	1506.4	1477.0	1391.3
50°	1456.2	1390.1	1234.7	987.5	811.3	1001.0	1233.5	1384.0	1420.7	1393.8	1298.3
52.5°	1365.6	1308.1	1152.7	881.1	740.3	894.5	1150.3	1303.2	1332.6	1300.8	1205.3
55°	1276.3	1224.9	1065.8	786.8	677.9	799.1	1063.4	1220.0	1243.3	1206.6	1107.4
57.5°	1185.8	1139.3	976.5	702.4	620.4	715.9	982.6	1134.4	1150.3	1103.8	1013.2
60°	1091.5	1052.4	886.0	627.8	564.1	638.8	883.5	1048.7	1058.5	1008.3	921.4
62.5°	997.3	961.8	795.4	559.2	506.6	566.6	801.5	958.2	964.3	916.5	827.2
65°	900.6	867.6	707.3	487.0	451.5	499.3	713.4	863.9	870.0	816.2	735.4
67.5°	800.3	773.4	613.1	432.0	398.9	435.6	625.3	768.5	772.1	719.5	646.1
70°	700.0	676.7	529.9	372.0	347.5	373.2	538.4	663.2	670.6	614.3	555.6
72.5°	597.2	578.8	449.1	309.6	287.6	309.6	454.0	566.6	571.5	525.0	467.5
75°	493.1	479.7	367.1	248.4	231.3	247.2	369.6	469.9	469.9	425.8	380.6
77.5°	392.8	383.0	281.4	190.9	178.7	188.4	282.7	372.0	369.6	335.3	299.8
80°	293.7	286.3	201.9	138.3	129.7	134.6	201.9	275.3	275.3	250.9	208.0
82.5°	210.5	201.9	133.4	90.6	85.7	88.1	130.9	192.1	195.8	177.4	140.7
85°	139.5	119.9	72.2	50.2	46.5	47.7	68.5	111.4	122.4	102.8	73.4
87.5°	61.2	40.4	18.4	7.3	3.7	4.9	14.7	35.5	46.5	30.6	9.8
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°	2281.0	2281.0	2281.0	2281.0	2281.0	2281.0
2.5°	2288.3	2268.7	2276.1	2281.0	2276.1	2298.1
5°	2285.9	2277.3	2276.1	2282.2	2272.4	2294.4
7.5°	2282.2	2277.3	2276.1	2278.5	2266.3	2287.1
10°	2273.6	2266.3	2268.7	2272.4	2256.5	2276.1
12.5°	2257.7	2250.4	2251.6	2263.8	2241.8	2258.9
15°	2230.8	2222.2	2230.8	2244.3	2224.7	2239.4
17.5°	2195.3	2181.8	2196.5	2217.3	2202.6	2216.1
20°	2150.0	2129.2	2145.1	2183.1	2169.6	2186.7
22.5°	2095.0	2069.3	2085.2	2140.2	2136.6	2154.9
25°	2032.6	2002.0	2024.0	2091.3	2098.6	2115.8
27.5°	1962.8	1928.5	1957.9	2037.4	2054.6	2074.2
30°	1886.9	1850.2	1884.5	1977.5	2003.2	2024.0
32.5°	1808.6	1768.2	1807.4	1910.2	1946.9	1973.8
35°	1726.6	1685.0	1729.1	1840.4	1884.5	1911.4
37.5°	1638.5	1598.1	1645.9	1767.0	1819.6	1846.6
40°	1548.0	1502.7	1556.5	1680.1	1749.9	1781.7
42.5°	1455.0	1398.7	1464.8	1598.1	1674.0	1705.8
45°	1351.0	1272.6	1362.0	1511.3	1590.8	1626.3
47.5°	1246.9	1168.6	1259.2	1418.3	1503.9	1535.7
50°	1146.6	1079.3	1151.5	1316.7	1415.8	1456.2
52.5°	1054.8	999.8	1060.9	1217.6	1325.3	1365.6
55°	969.2	926.3	976.5	1119.7	1229.8	1276.3
57.5°	888.4	861.5	895.7	1026.7	1141.7	1185.8
60°	812.5	794.2	818.6	934.9	1037.7	1091.5
62.5°	737.9	728.1	746.5	838.2	941.0	997.3
65°	665.7	663.2	673.0	753.8	839.5	900.6
67.5°	593.5	592.3	598.4	664.5	740.3	800.3
70°	521.3	528.6	525.0	567.8	641.2	700.0
72.5°	447.9	458.9	452.8	479.7	550.7	597.2
75°	365.9	380.6	368.3	398.9	443.0	493.1
77.5°	281.4	297.4	282.7	309.6	357.3	392.8
80°	201.9	216.6	204.4	225.2	266.8	293.7
82.5°	127.3	138.3	128.5	149.3	190.9	210.5
85°	56.3	62.4	64.9	80.8	117.5	139.5
87.5°	2.4	1.2	2.4	15.9	41.6	61.2
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)