

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: P520642

Luminaire Tested: **8WSLA-100-L935-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: P520642
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-100-L935-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

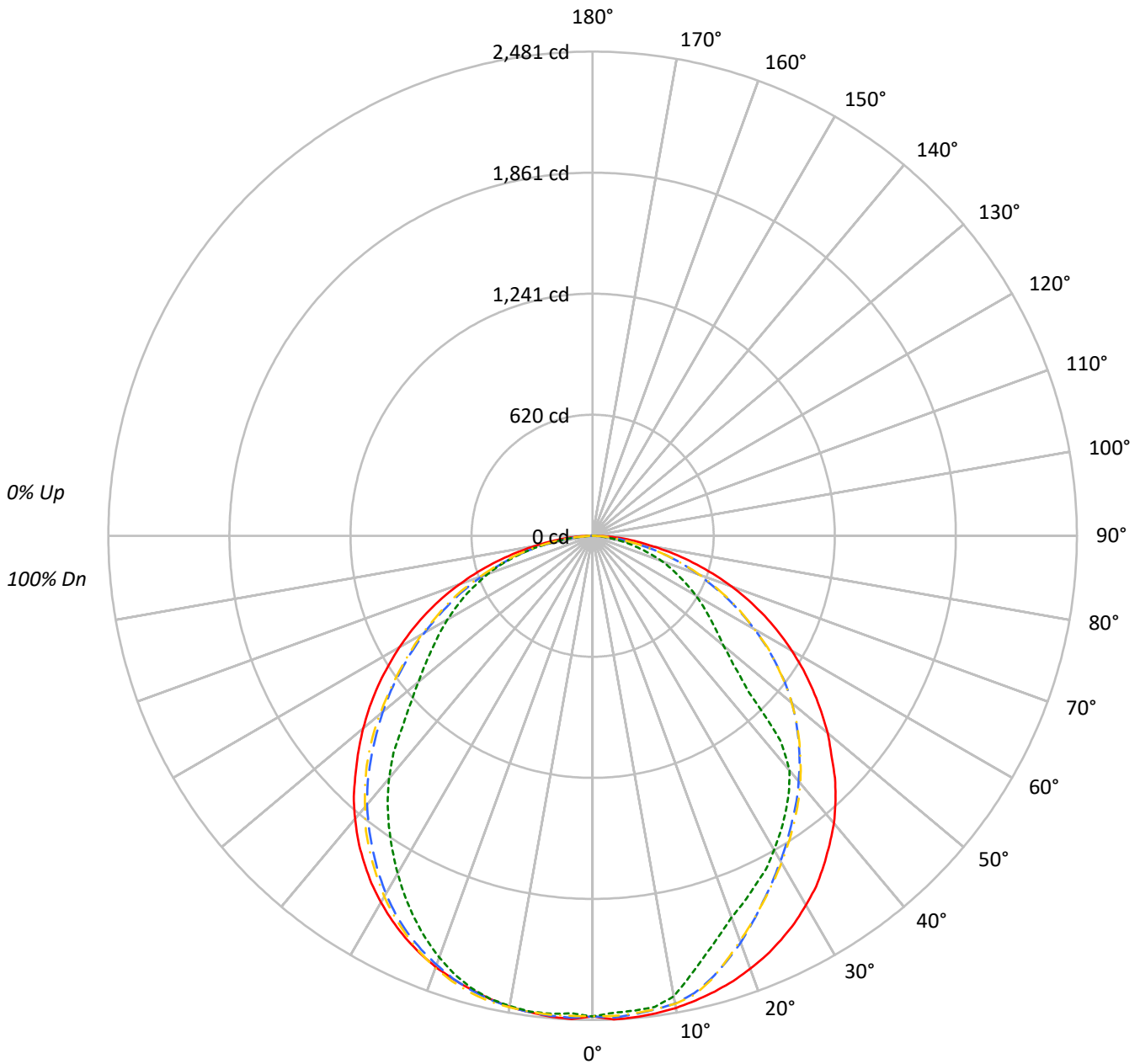
Lumens per Lamp: N/A
Luminaire Lumens: 6606.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 63.4
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					
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°	6627	6627	6627	6627
5°	6691	6598	6680	6641
10°	6714	6548	6696	6685
15°	6735	6201	6706	6684
20°	6761	5958	6734	6583
25°	6782	5860	6747	6417
30°	6790	5776	6740	6207
35°	6779	5663	6709	5976
40°	6757	5513	6650	5699
45°	6682	4284	6531	5229
50°	6581	3667	6421	4878
55°	6465	3434	6297	4692
60°	6342	3278	6150	4614
65°	6191	3104	5981	4559
70°	5946	2952	5696	4490
75°	5535	2596	5274	4272
80°	4914	2170	4606	3623
85°	4650	1550	4079	2081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.0	3.5
10°-20°	667.4	10.1
20°-30°	997.2	15.1
30°-40°	1187.0	18.0
40°-50°	1186.5	18.0
50°-60°	1021.0	15.5
60°-70°	768.4	11.6
70°-80°	437.9	6.6
80°-90°	106.6	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°	1898.6	28.7
0°-40°	3085.6	46.7
0°-60°	5293.1	80.1
0°-90°	6606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6606.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2462	2462	2462	2462	2462	
5°	2477	2443	2473	2458	2477	236
15°	2418	2226	2407	2399	2418	683
25°	2284	1974	2272	2161	2284	1053
35°	2064	1724	2042	1819	2064	1291
45°	1756	1126	1716	1374	1756	1352
55°	1378	732	1342	1000	1378	1232
65°	972	488	939	716	972	960
75°	532	250	507	411	532	564
85°	151	50	132	67	151	164
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°	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5
2.5°	2481.0	2458.5	2471.7	2467.8	2446.6	2454.6	2462.5	2454.6	2478.4	2457.2	2471.7
5°	2477.0	2453.3	2461.2	2453.3	2442.7	2445.3	2457.2	2449.3	2473.1	2450.6	2469.1
7.5°	2469.1	2440.0	2448.0	2444.0	2434.8	2436.1	2448.0	2441.4	2462.5	2441.4	2462.5
10°	2457.2	2426.8	2433.4	2416.3	2396.4	2411.0	2434.8	2428.2	2450.6	2426.8	2450.6
12.5°	2438.7	2408.3	2401.7	2344.9	2309.3	2337.0	2409.7	2409.7	2430.8	2408.3	2433.4
15°	2417.6	2384.6	2348.9	2263.0	2226.0	2253.8	2354.2	2388.5	2407.0	2384.6	2409.7
17.5°	2392.5	2354.2	2285.5	2185.1	2150.7	2178.5	2281.5	2356.8	2380.6	2356.8	2379.3
20°	2360.8	2315.9	2218.1	2103.2	2080.7	2105.8	2208.9	2318.5	2351.5	2322.5	2338.3
22.5°	2326.4	2272.3	2142.8	2039.8	2029.2	2045.0	2138.8	2270.9	2314.5	2284.2	2294.7
25°	2284.2	2220.7	2067.5	1981.6	1973.7	1982.9	2070.1	2215.5	2272.3	2240.6	2244.5
27.5°	2239.2	2170.5	1996.2	1932.7	1924.8	1928.8	2001.4	2153.4	2223.4	2191.7	2185.1
30°	2185.1	2111.1	1924.8	1866.7	1858.8	1873.3	1935.4	2090.0	2169.2	2137.5	2117.7
32.5°	2130.9	2046.4	1854.8	1809.9	1794.0	1807.2	1866.7	2023.9	2109.8	2076.7	2043.7
35°	2063.5	1977.7	1782.1	1737.2	1724.0	1738.5	1798.0	1955.2	2042.4	2009.4	1964.5
37.5°	1993.5	1905.0	1716.1	1675.1	1651.4	1668.5	1728.0	1883.9	1972.4	1938.0	1882.5
40°	1923.5	1828.4	1642.1	1599.8	1569.4	1594.5	1655.3	1808.6	1893.1	1861.4	1798.0
42.5°	1841.6	1751.8	1569.4	1510.0	1424.1	1504.7	1577.4	1733.3	1811.2	1780.8	1704.2
45°	1755.7	1669.8	1492.8	1348.8	1125.6	1362.0	1498.1	1654.0	1716.1	1687.0	1603.8
47.5°	1658.0	1585.3	1414.9	1195.6	978.9	1208.8	1417.5	1578.7	1626.3	1594.5	1502.1
50°	1572.1	1500.8	1333.0	1066.1	875.9	1080.6	1331.7	1494.1	1533.8	1504.7	1401.7
52.5°	1474.3	1412.2	1244.5	951.2	799.3	965.7	1241.8	1407.0	1438.7	1404.3	1301.3
55°	1377.9	1322.4	1150.7	849.5	731.9	862.7	1148.0	1317.1	1342.2	1302.6	1195.6
57.5°	1280.1	1229.9	1054.2	758.3	669.8	772.8	1060.8	1224.6	1241.8	1191.6	1093.9
60°	1178.4	1136.1	956.5	677.7	609.0	689.6	953.8	1132.2	1142.7	1088.6	994.8
62.5°	1076.7	1038.4	858.7	603.7	546.9	611.7	865.3	1034.4	1041.0	989.5	893.1
65°	972.3	936.6	763.6	525.8	487.5	539.0	770.2	932.7	939.3	881.2	794.0
67.5°	864.0	834.9	661.9	466.3	430.7	470.3	675.1	829.6	833.6	776.8	697.5
70°	755.7	730.6	572.0	401.6	375.2	402.9	581.3	716.0	724.0	663.2	599.8
72.5°	644.7	624.9	484.8	334.2	310.5	334.2	490.1	611.7	616.9	566.7	504.7
75°	532.4	517.9	396.3	268.2	249.7	266.9	399.0	507.3	507.3	459.7	410.9
77.5°	424.1	413.5	303.8	206.1	192.9	203.4	305.2	401.6	399.0	362.0	323.7
80°	317.1	309.1	218.0	149.3	140.0	145.3	218.0	297.2	297.2	270.8	224.6
82.5°	227.2	218.0	144.0	97.8	92.5	95.1	141.4	207.4	211.4	191.6	151.9
85°	150.6	129.5	77.9	54.2	50.2	51.5	74.0	120.2	132.1	111.0	79.3
87.5°	66.1	43.6	19.8	7.9	4.0	5.3	15.9	38.3	50.2	33.0	10.6
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°	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5
2.5°	2470.4	2449.3	2457.2	2462.5	2457.2	2481.0
5°	2467.8	2458.5	2457.2	2463.8	2453.3	2477.0
7.5°	2463.8	2458.5	2457.2	2459.9	2446.6	2469.1
10°	2454.6	2446.6	2449.3	2453.3	2436.1	2457.2
12.5°	2437.4	2429.5	2430.8	2444.0	2420.2	2438.7
15°	2408.3	2399.1	2408.3	2422.9	2401.7	2417.6
17.5°	2370.0	2355.5	2371.3	2393.8	2377.9	2392.5
20°	2321.1	2298.7	2315.9	2356.8	2342.3	2360.8
22.5°	2261.7	2234.0	2251.1	2310.6	2306.6	2326.4
25°	2194.3	2161.3	2185.1	2257.7	2265.7	2284.2
27.5°	2119.0	2082.0	2113.7	2199.6	2218.1	2239.2
30°	2037.1	1997.5	2034.5	2134.9	2162.6	2185.1
32.5°	1952.6	1909.0	1951.2	2062.2	2101.8	2130.9
35°	1864.0	1819.1	1866.7	1986.9	2034.5	2063.5
37.5°	1768.9	1725.3	1776.9	1907.6	1964.5	1993.5
40°	1671.2	1622.3	1680.4	1813.8	1889.1	1923.5
42.5°	1570.8	1510.0	1581.3	1725.3	1807.2	1841.6
45°	1458.5	1373.9	1470.4	1631.5	1717.4	1755.7
47.5°	1346.2	1261.6	1359.4	1531.1	1623.6	1658.0
50°	1237.9	1165.2	1243.1	1421.5	1528.5	1572.1
52.5°	1138.8	1079.3	1145.4	1314.5	1430.7	1474.3
55°	1046.3	1000.1	1054.2	1208.8	1327.7	1377.9
57.5°	959.1	930.0	967.0	1108.4	1232.6	1280.1
60°	877.2	857.4	883.8	1009.3	1120.3	1178.4
62.5°	796.6	786.0	805.9	904.9	1015.9	1076.7
65°	718.7	716.0	726.6	813.8	906.3	972.3
67.5°	640.7	639.4	646.0	717.3	799.3	864.0
70°	562.8	570.7	566.7	613.0	692.2	755.7
72.5°	483.5	495.4	488.8	517.9	594.5	644.7
75°	395.0	410.9	397.6	430.7	478.2	532.4
77.5°	303.8	321.0	305.2	334.2	385.8	424.1
80°	218.0	233.8	220.6	243.1	288.0	317.1
82.5°	137.4	149.3	138.7	161.2	206.1	227.2
85°	60.8	67.4	70.0	87.2	126.8	150.6
87.5°	2.6	1.3	2.6	17.2	44.9	66.1
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)