

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: P520648

Luminaire Tested: **8WSLA-100-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: P520648
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-L950-UNV-U
Description: 8 FOOT, 2000 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

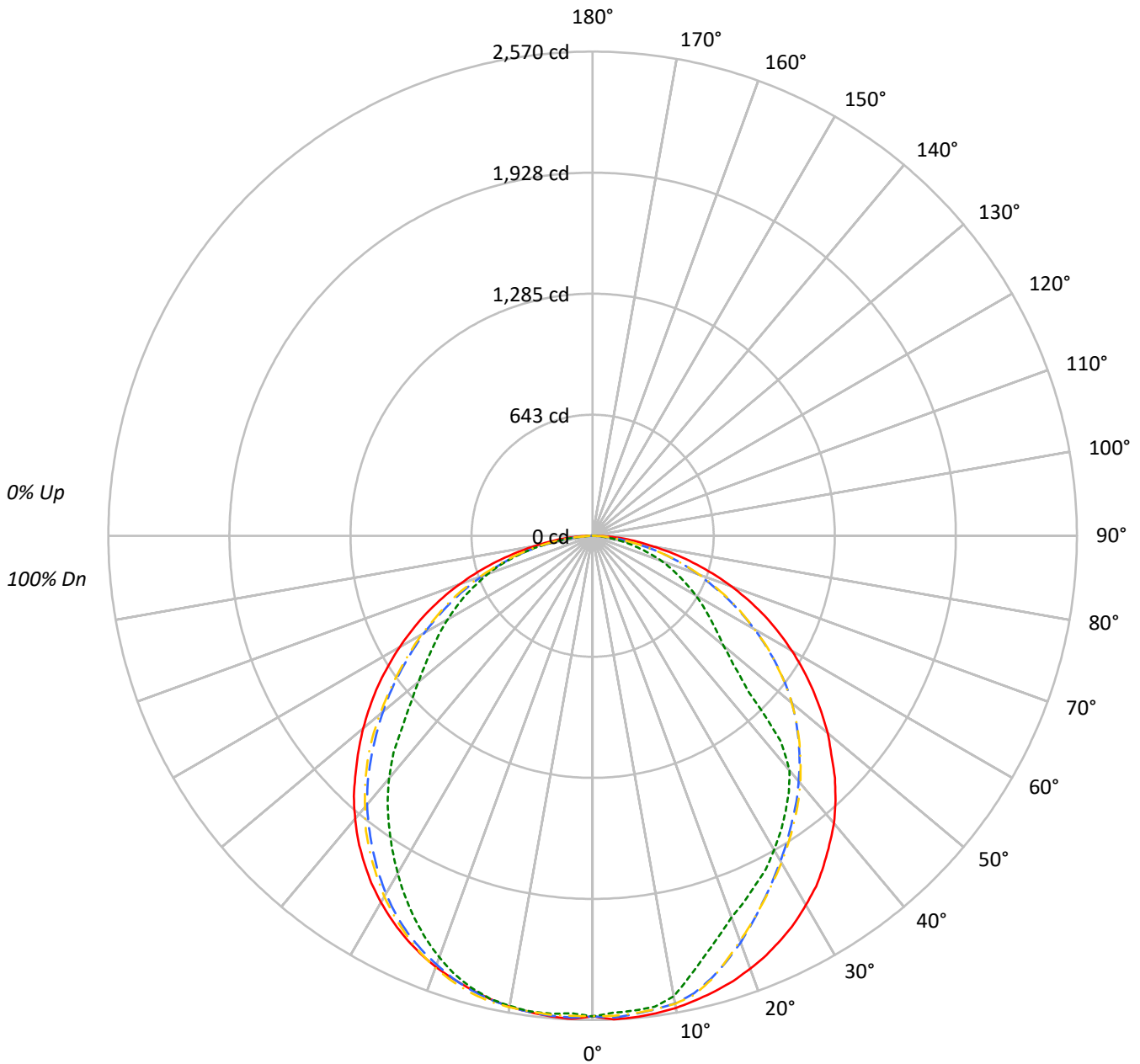
Lumens per Lamp: N/A
Luminaire Lumens: 6842.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (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°	6863	6863	6863	6863
5°	6930	6834	6919	6878
10°	6954	6782	6936	6924
15°	6976	6423	6945	6922
20°	7002	6171	6974	6818
25°	7024	6070	6988	6646
30°	7032	5982	6981	6428
35°	7021	5866	6949	6189
40°	6998	5710	6888	5902
45°	6920	4437	6764	5415
50°	6817	3798	6651	5052
55°	6695	3556	6522	4860
60°	6569	3395	6370	4779
65°	6413	3215	6194	4722
70°	6158	3057	5899	4651
75°	5733	2689	5463	4424
80°	5089	2247	4771	3753
85°	4817	1606	4224	2155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.3	3.5
10°-20°	691.2	10.1
20°-30°	1032.8	15.1
30°-40°	1229.4	18.0
40°-50°	1228.9	18.0
50°-60°	1057.5	15.5
60°-70°	795.9	11.6
70°-80°	453.5	6.6
80°-90°	110.4	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°	1966.4	28.7
0°-40°	3195.8	46.7
0°-60°	5482.2	80.1
0°-90°	6842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6842.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2550	2550	2550	2550	2550	
5°	2566	2530	2561	2546	2566	244
15°	2504	2306	2493	2485	2504	707
25°	2366	2044	2353	2238	2366	1091
35°	2137	1786	2115	1884	2137	1337
45°	1818	1166	1777	1423	1818	1400
55°	1427	758	1390	1036	1427	1276
65°	1007	505	973	742	1007	994
75°	551	259	525	426	551	584
85°	156	52	137	70	156	170
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°	2550.5	2550.5	2550.5	2550.5	2550.5	2550.5	2550.5	2550.5	2550.5	2550.5	2550.5
2.5°	2569.6	2546.4	2560.0	2555.9	2534.1	2542.3	2550.5	2542.3	2566.9	2545.0	2560.0
5°	2565.5	2540.9	2549.1	2540.9	2529.9	2532.7	2545.0	2536.8	2561.4	2538.2	2557.3
7.5°	2557.3	2527.2	2535.4	2531.3	2521.7	2523.1	2535.4	2528.6	2550.5	2528.6	2550.5
10°	2545.0	2513.5	2520.4	2502.6	2482.1	2497.1	2521.7	2514.9	2538.2	2513.5	2538.2
12.5°	2525.8	2494.4	2487.5	2428.7	2391.8	2420.5	2495.7	2495.7	2517.6	2494.4	2520.4
15°	2504.0	2469.7	2432.8	2343.9	2305.5	2334.3	2438.3	2473.8	2493.0	2469.7	2495.7
17.5°	2478.0	2438.3	2367.1	2263.1	2227.6	2256.3	2363.0	2441.0	2465.6	2441.0	2464.3
20°	2445.1	2398.6	2297.3	2178.3	2155.0	2181.0	2287.8	2401.3	2435.5	2405.4	2421.9
22.5°	2409.5	2353.4	2219.3	2112.6	2101.7	2118.1	2215.2	2352.1	2397.2	2365.8	2376.7
25°	2365.8	2300.1	2141.4	2052.4	2044.2	2053.8	2144.1	2294.6	2353.4	2320.6	2324.7
27.5°	2319.2	2248.1	2067.5	2001.8	1993.6	1997.7	2072.9	2230.3	2302.8	2270.0	2263.1
30°	2263.1	2186.5	1993.6	1933.4	1925.2	1940.2	2004.5	2164.6	2246.7	2213.9	2193.4
32.5°	2207.0	2119.5	1921.1	1874.5	1858.1	1871.8	1933.4	2096.2	2185.1	2150.9	2116.7
35°	2137.3	2048.3	1845.8	1799.3	1785.6	1800.7	1862.2	2025.1	2115.4	2081.2	2034.6
37.5°	2064.7	1973.1	1777.4	1735.0	1710.3	1728.1	1789.7	1951.2	2042.8	2007.3	1949.8
40°	1992.2	1893.7	1700.8	1657.0	1625.5	1651.5	1714.5	1873.2	1960.7	1927.9	1862.2
42.5°	1907.4	1814.3	1625.5	1563.9	1475.0	1558.5	1633.7	1795.2	1875.9	1844.4	1765.1
45°	1818.4	1729.5	1546.2	1397.0	1165.8	1410.7	1551.6	1713.1	1777.4	1747.3	1661.1
47.5°	1717.2	1641.9	1465.4	1238.3	1013.9	1252.0	1468.2	1635.1	1684.4	1651.5	1555.7
50°	1628.3	1554.4	1380.6	1104.2	907.2	1119.3	1379.2	1547.5	1588.6	1558.5	1451.7
52.5°	1527.0	1462.7	1288.9	985.2	827.8	1000.2	1286.2	1457.2	1490.1	1454.5	1347.8
55°	1427.1	1369.6	1191.8	879.8	758.0	893.5	1189.0	1364.2	1390.2	1349.1	1238.3
57.5°	1325.9	1273.9	1091.9	785.4	693.7	800.4	1098.7	1268.4	1286.2	1234.2	1132.9
60°	1220.5	1176.7	990.6	701.9	630.8	714.2	987.9	1172.6	1183.6	1127.5	1030.3
62.5°	1115.1	1075.5	889.4	625.3	566.5	633.5	896.2	1071.4	1078.2	1024.8	925.0
65°	1007.1	970.1	790.9	544.6	504.9	558.3	797.7	966.0	972.8	912.6	822.3
67.5°	894.9	864.8	685.5	483.0	446.1	487.1	699.2	859.3	863.4	804.5	722.5
70°	782.7	756.7	592.5	416.0	388.6	417.3	602.0	741.6	749.8	686.9	621.2
72.5°	667.7	647.2	502.2	346.2	321.5	346.2	507.6	633.5	639.0	587.0	522.7
75°	551.4	536.4	410.5	277.8	258.6	276.4	413.2	525.4	525.4	476.2	425.5
77.5°	439.2	428.3	314.7	213.5	199.8	210.7	316.1	416.0	413.2	374.9	335.2
80°	328.4	320.2	225.8	154.6	145.0	150.5	225.8	307.9	307.9	280.5	232.6
82.5°	235.3	225.8	149.1	101.3	95.8	98.5	146.4	214.8	218.9	198.4	157.4
85°	156.0	134.1	80.7	56.1	52.0	53.4	76.6	124.5	136.8	114.9	82.1
87.5°	68.4	45.2	20.5	8.2	4.1	5.5	16.4	39.7	52.0	34.2	10.9
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°	2550.5	2550.5	2550.5	2550.5	2550.5	2550.5
2.5°	2558.7	2536.8	2545.0	2550.5	2545.0	2569.6
5°	2555.9	2546.4	2545.0	2551.8	2540.9	2565.5
7.5°	2551.8	2546.4	2545.0	2547.7	2534.1	2557.3
10°	2542.3	2534.1	2536.8	2540.9	2523.1	2545.0
12.5°	2524.5	2516.3	2517.6	2531.3	2506.7	2525.8
15°	2494.4	2484.8	2494.4	2509.4	2487.5	2504.0
17.5°	2454.7	2439.6	2456.1	2479.3	2462.9	2478.0
20°	2404.1	2380.8	2398.6	2441.0	2426.0	2445.1
22.5°	2342.5	2313.8	2331.5	2393.1	2389.0	2409.5
25°	2272.7	2238.5	2263.1	2338.4	2346.6	2365.8
27.5°	2194.7	2156.4	2189.2	2278.2	2297.3	2319.2
30°	2109.9	2068.8	2107.1	2211.1	2239.9	2263.1
32.5°	2022.3	1977.2	2020.9	2135.9	2176.9	2207.0
35°	1930.6	1884.1	1933.4	2057.9	2107.1	2137.3
37.5°	1832.1	1787.0	1840.3	1975.8	2034.6	2064.7
40°	1730.9	1680.2	1740.5	1878.6	1956.6	1992.2
42.5°	1626.9	1563.9	1637.8	1787.0	1871.8	1907.4
45°	1510.6	1423.0	1522.9	1689.8	1778.8	1818.4
47.5°	1394.3	1306.7	1408.0	1585.8	1681.6	1717.2
50°	1282.1	1206.8	1287.6	1472.3	1583.1	1628.3
52.5°	1179.5	1117.9	1186.3	1361.4	1481.8	1527.0
55°	1083.7	1035.8	1091.9	1252.0	1375.1	1427.1
57.5°	993.4	963.3	1001.6	1148.0	1276.6	1325.9
60°	908.5	888.0	915.4	1045.4	1160.3	1220.5
62.5°	825.1	814.1	834.7	937.3	1052.2	1115.1
65°	744.3	741.6	752.6	842.9	938.6	1007.1
67.5°	663.6	662.2	669.1	743.0	827.8	894.9
70°	582.9	591.1	587.0	634.9	717.0	782.7
72.5°	500.8	513.1	506.3	536.4	615.7	667.7
75°	409.1	425.5	411.9	446.1	495.3	551.4
77.5°	314.7	332.5	316.1	346.2	399.5	439.2
80°	225.8	242.2	228.5	251.8	298.3	328.4
82.5°	142.3	154.6	143.7	166.9	213.5	235.3
85°	62.9	69.8	72.5	90.3	131.4	156.0
87.5°	2.7	1.4	2.7	17.8	46.5	68.4
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)