

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: P520639

Luminaire Tested: **8WSLA-100-L930-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: P520639
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-L930-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

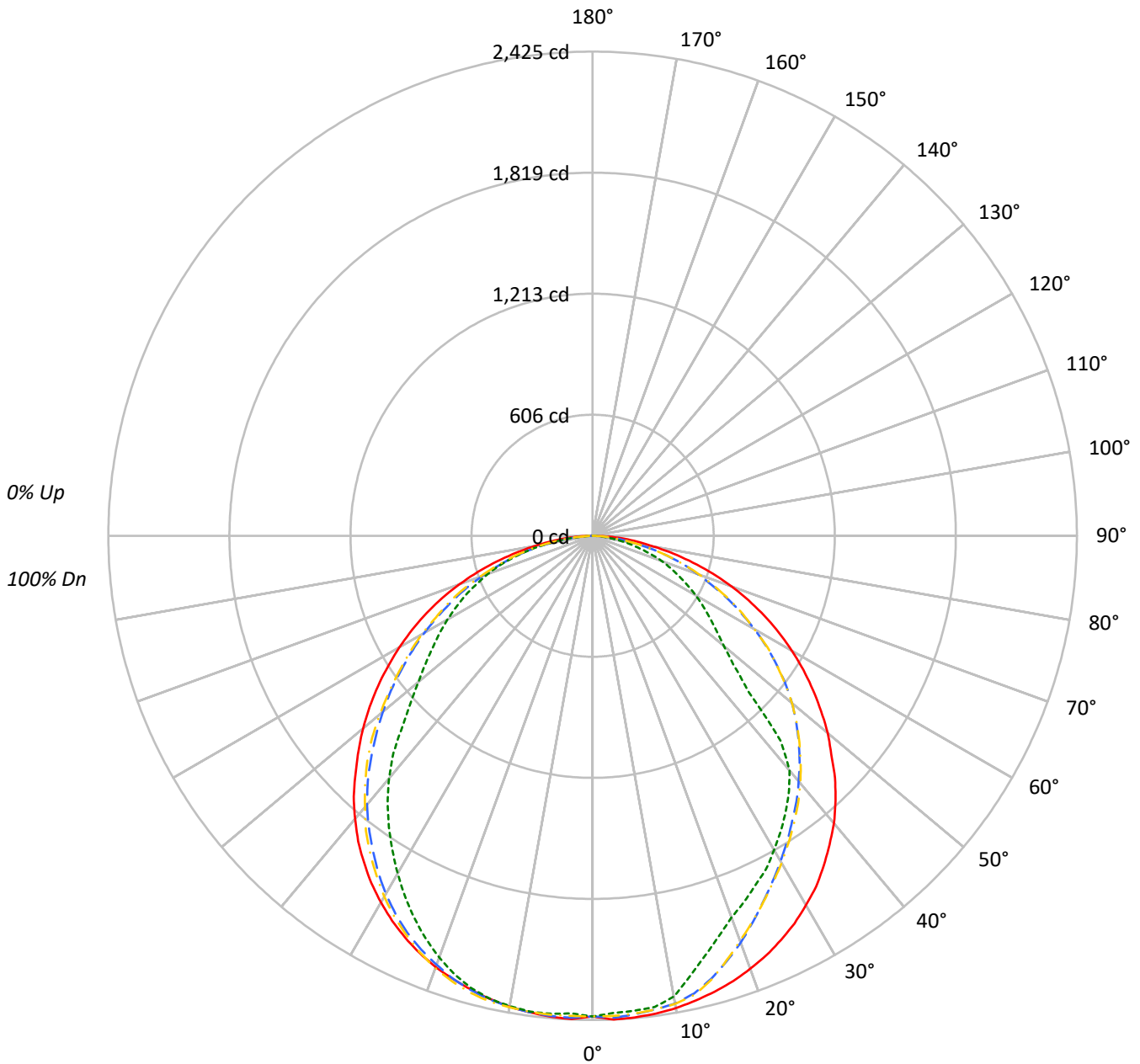
Lumens per Lamp: N/A
Luminaire Lumens: 6458.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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°	6478	6478	6478	6478
5°	6541	6451	6531	6492
10°	6564	6402	6546	6536
15°	6584	6063	6556	6534
20°	6609	5825	6583	6435
25°	6630	5729	6596	6274
30°	6637	5646	6589	6068
35°	6627	5537	6559	5842
40°	6606	5390	6501	5571
45°	6532	4187	6384	5111
50°	6434	3585	6277	4769
55°	6320	3357	6156	4587
60°	6200	3204	6012	4511
65°	6052	3035	5847	4457
70°	5812	2886	5568	4389
75°	5412	2538	5156	4177
80°	4804	2122	4503	3543
85°	4545	1516	3986	2035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	3.5
10°-20°	652.4	10.1
20°-30°	974.9	15.1
30°-40°	1160.4	18.0
40°-50°	1159.9	18.0
50°-60°	998.1	15.5
60°-70°	751.2	11.6
70°-80°	428.1	6.6
80°-90°	104.2	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°	1856.0	28.7
0°-40°	3016.5	46.7
0°-60°	5174.5	80.1
0°-90°	6458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6458.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2407	2407	2407	2407	2407	
5°	2422	2388	2418	2404	2422	230
15°	2363	2176	2353	2345	2363	668
25°	2233	1930	2221	2113	2233	1030
35°	2017	1685	1997	1778	2017	1262
45°	1716	1100	1678	1343	1716	1322
55°	1347	716	1312	978	1347	1204
65°	950	477	918	700	950	939
75°	520	244	496	402	520	551
85°	147	49	129	66	147	160
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°	2407.3	2407.3	2407.3	2407.3	2407.3	2407.3	2407.3	2407.3	2407.3	2407.3	2407.3
2.5°	2425.4	2403.5	2416.4	2412.5	2391.8	2399.6	2407.3	2399.6	2422.8	2402.2	2416.4
5°	2421.5	2398.3	2406.0	2398.3	2388.0	2390.5	2402.2	2394.4	2417.7	2395.7	2413.8
7.5°	2413.8	2385.4	2393.1	2389.2	2380.2	2381.5	2393.1	2386.7	2407.3	2386.7	2407.3
10°	2402.2	2372.5	2378.9	2362.1	2342.8	2357.0	2380.2	2373.8	2395.7	2372.5	2395.7
12.5°	2384.1	2354.4	2347.9	2292.4	2257.5	2284.6	2355.7	2355.7	2376.3	2354.4	2378.9
15°	2363.4	2331.1	2296.3	2212.3	2176.2	2203.3	2301.4	2335.0	2353.1	2331.1	2355.7
17.5°	2338.9	2301.4	2234.3	2136.1	2102.5	2129.7	2230.4	2304.0	2327.3	2304.0	2326.0
20°	2307.9	2264.0	2168.4	2056.0	2034.1	2058.6	2159.4	2266.6	2298.8	2270.4	2285.9
22.5°	2274.3	2221.4	2094.8	1994.1	1983.7	1999.2	2090.9	2220.1	2262.7	2233.0	2243.3
25°	2233.0	2171.0	2021.2	1937.2	1929.5	1938.5	2023.8	2165.8	2221.4	2190.4	2194.2
27.5°	2189.1	2121.9	1951.4	1889.4	1881.7	1885.6	1956.6	2105.1	2173.6	2142.6	2136.1
30°	2136.1	2063.8	1881.7	1824.9	1817.1	1831.3	1892.0	2043.1	2120.6	2089.6	2070.3
32.5°	2083.2	2000.5	1813.2	1769.3	1753.8	1766.8	1824.9	1978.6	2062.5	2030.2	1997.9
35°	2017.3	1933.4	1742.2	1698.3	1685.4	1699.6	1757.7	1911.4	1996.6	1964.3	1920.4
37.5°	1948.9	1862.3	1677.6	1637.6	1614.4	1631.1	1689.3	1841.7	1928.2	1894.6	1840.4
40°	1880.4	1787.4	1605.3	1564.0	1534.3	1558.8	1618.2	1768.0	1850.7	1819.7	1757.7
42.5°	1800.3	1712.5	1534.3	1476.2	1392.2	1471.0	1542.0	1694.4	1770.6	1740.9	1666.0
45°	1716.4	1632.4	1459.4	1318.6	1100.3	1331.5	1464.5	1616.9	1677.6	1649.2	1567.9
47.5°	1620.8	1549.8	1383.2	1168.8	957.0	1181.7	1385.8	1543.3	1589.8	1558.8	1468.4
50°	1536.9	1467.1	1303.1	1042.2	856.3	1056.4	1301.8	1460.7	1499.4	1471.0	1370.3
52.5°	1441.3	1380.6	1216.6	929.9	781.3	944.1	1214.0	1375.4	1406.4	1372.8	1272.1
55°	1347.0	1292.8	1124.9	830.4	715.5	843.3	1122.3	1287.6	1312.1	1273.4	1168.8
57.5°	1251.4	1202.4	1030.6	741.3	654.8	755.5	1037.1	1197.2	1214.0	1164.9	1069.4
60°	1152.0	1110.7	935.0	662.5	595.4	674.2	932.5	1106.8	1117.1	1064.2	972.5
62.5°	1052.6	1015.1	839.5	590.2	534.7	598.0	845.9	1011.2	1017.7	967.3	873.0
65°	950.5	915.7	746.5	514.0	476.6	526.9	752.9	911.8	918.2	861.4	776.2
67.5°	844.6	816.2	647.0	455.9	421.0	459.8	659.9	811.1	814.9	759.4	681.9
70°	738.7	714.2	559.2	392.6	366.8	393.9	568.3	700.0	707.7	648.3	586.3
72.5°	630.2	610.9	474.0	326.7	303.5	326.7	479.1	598.0	603.1	554.0	493.3
75°	520.5	506.3	387.4	262.2	244.1	260.9	390.0	495.9	495.9	449.4	401.7
77.5°	414.6	404.2	297.0	201.5	188.6	198.9	298.3	392.6	390.0	353.9	316.4
80°	310.0	302.2	213.1	145.9	136.9	142.1	213.1	290.6	290.6	264.8	219.6
82.5°	222.1	213.1	140.8	95.6	90.4	93.0	138.2	202.8	206.6	187.3	148.5
85°	147.2	126.6	76.2	53.0	49.1	50.4	72.3	117.5	129.1	108.5	77.5
87.5°	64.6	42.6	19.4	7.7	3.9	5.2	15.5	37.5	49.1	32.3	10.3
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°	2407.3	2407.3	2407.3	2407.3	2407.3	2407.3
2.5°	2415.1	2394.4	2402.2	2407.3	2402.2	2425.4
5°	2412.5	2403.5	2402.2	2408.6	2398.3	2421.5
7.5°	2408.6	2403.5	2402.2	2404.7	2391.8	2413.8
10°	2399.6	2391.8	2394.4	2398.3	2381.5	2402.2
12.5°	2382.8	2375.0	2376.3	2389.2	2366.0	2384.1
15°	2354.4	2345.3	2354.4	2368.6	2347.9	2363.4
17.5°	2316.9	2302.7	2318.2	2340.2	2324.7	2338.9
20°	2269.1	2247.2	2264.0	2304.0	2289.8	2307.9
22.5°	2211.0	2183.9	2200.7	2258.8	2254.9	2274.3
25°	2145.2	2112.9	2136.1	2207.1	2214.9	2233.0
27.5°	2071.5	2035.4	2066.4	2150.3	2168.4	2189.1
30°	1991.5	1952.7	1988.9	2087.0	2114.2	2136.1
32.5°	1908.8	1866.2	1907.5	2016.0	2054.8	2083.2
35°	1822.3	1778.4	1824.9	1942.4	1988.9	2017.3
37.5°	1729.3	1686.7	1737.0	1864.9	1920.4	1948.9
40°	1633.7	1585.9	1642.8	1773.2	1846.8	1880.4
42.5°	1535.6	1476.2	1545.9	1686.7	1766.8	1800.3
45°	1425.8	1343.1	1437.4	1595.0	1678.9	1716.4
47.5°	1316.0	1233.4	1328.9	1496.8	1587.2	1620.8
50°	1210.1	1139.1	1215.3	1389.6	1494.2	1536.9
52.5°	1113.3	1055.1	1119.7	1285.0	1398.7	1441.3
55°	1022.9	977.7	1030.6	1181.7	1297.9	1347.0
57.5°	937.6	909.2	945.4	1083.6	1205.0	1251.4
60°	857.5	838.2	864.0	986.7	1095.2	1152.0
62.5°	778.8	768.4	787.8	884.7	993.2	1052.6
65°	702.6	700.0	710.3	795.6	886.0	950.5
67.5°	626.4	625.1	631.5	701.3	781.3	844.6
70°	550.2	557.9	554.0	599.2	676.7	738.7
72.5°	472.7	484.3	477.8	506.3	581.2	630.2
75°	386.2	401.7	388.7	421.0	467.5	520.5
77.5°	297.0	313.8	298.3	326.7	377.1	414.6
80°	213.1	228.6	215.7	237.6	281.5	310.0
82.5°	134.3	145.9	135.6	157.6	201.5	222.1
85°	59.4	65.9	68.4	85.2	124.0	147.2
87.5°	2.6	1.3	2.6	16.8	43.9	64.6
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)