

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: P520630

Luminaire Tested: **8WSLA-100-L835-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: P520630
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-L835-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

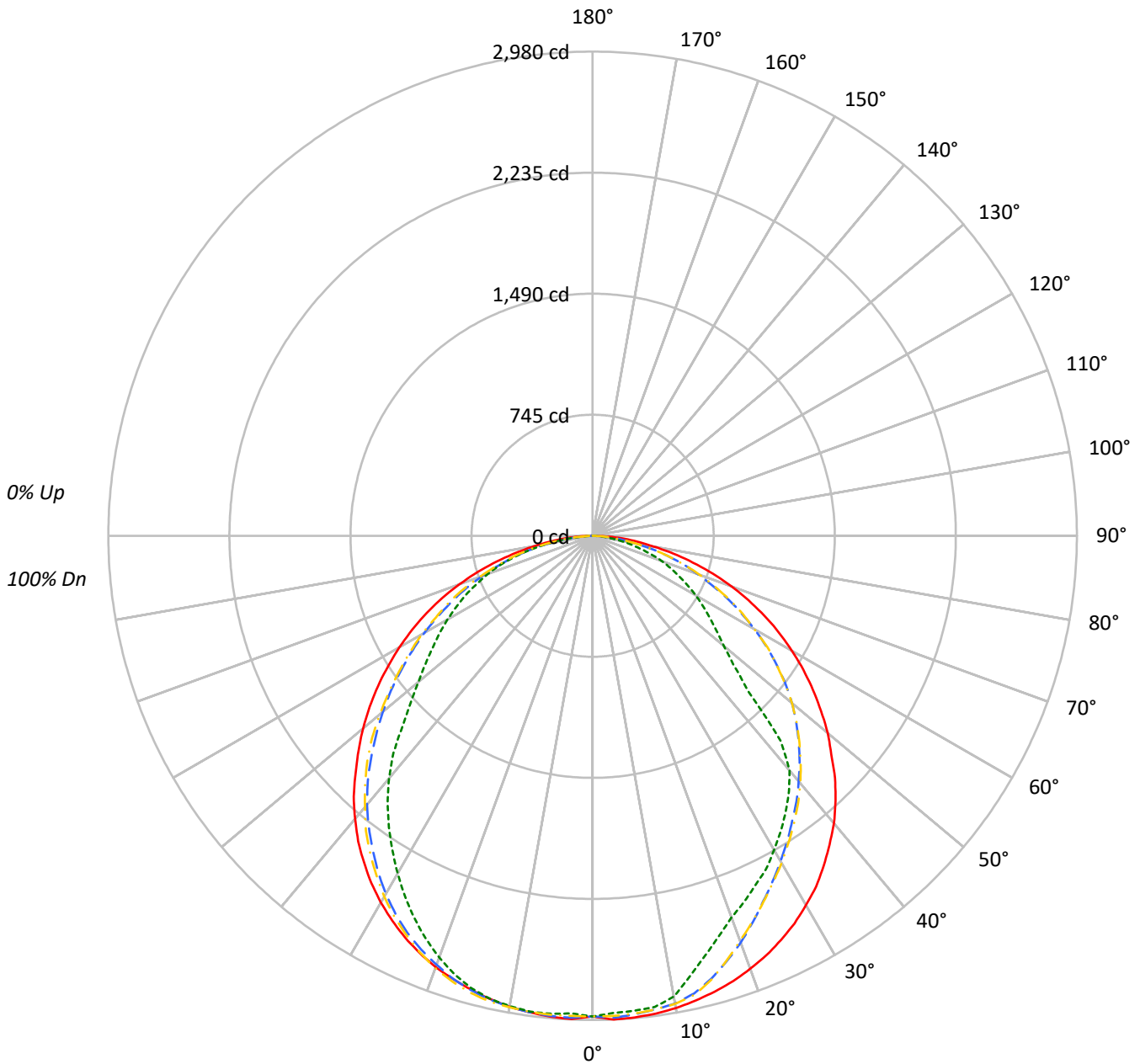
Lumens per Lamp: N/A
Luminaire Lumens: 7936.0 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (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°	7961	7961	7961	7961
5°	8038	7927	8025	7978
10°	8066	7867	8044	8031
15°	8091	7450	8056	8029
20°	8122	7158	8090	7908
25°	8147	7040	8105	7709
30°	8157	6939	8098	7456
35°	8144	6804	8060	7179
40°	8117	6623	7989	6846
45°	8027	5146	7846	6281
50°	7906	4405	7714	5860
55°	7766	4125	7565	5636
60°	7619	3937	7388	5543
65°	7438	3729	7185	5477
70°	7142	3546	6843	5394
75°	6650	3119	6336	5132
80°	5903	2607	5534	4353
85°	5585	1862	4900	2498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.1	3.5
10°-20°	801.7	10.1
20°-30°	1198.0	15.1
30°-40°	1426.0	18.0
40°-50°	1425.4	18.0
50°-60°	1226.5	15.5
60°-70°	923.2	11.6
70°-80°	526.1	6.6
80°-90°	128.0	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°	2280.8	28.7
0°-40°	3706.8	46.7
0°-60°	6358.7	80.1
0°-90°	7936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7936.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2958	2958	2958	2958	2958	
5°	2976	2934	2971	2954	2976	283
15°	2904	2674	2892	2882	2904	821
25°	2744	2371	2730	2596	2744	1265
35°	2479	2071	2454	2185	2479	1551
45°	2109	1352	2062	1650	2109	1624
55°	1655	879	1612	1201	1655	1480
65°	1168	586	1128	860	1168	1153
75°	640	300	609	494	640	677
85°	181	60	159	81	181	197
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°	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3
2.5°	2980.5	2953.5	2969.4	2964.6	2939.2	2948.8	2958.3	2948.8	2977.3	2951.9	2969.4
5°	2975.7	2947.2	2956.7	2947.2	2934.5	2937.6	2951.9	2942.4	2971.0	2944.0	2966.2
7.5°	2966.2	2931.3	2940.8	2936.1	2925.0	2926.5	2940.8	2932.9	2958.3	2932.9	2958.3
10°	2951.9	2915.4	2923.4	2902.7	2878.9	2896.4	2925.0	2917.0	2944.0	2915.4	2944.0
12.5°	2929.7	2893.2	2885.3	2817.0	2774.2	2807.5	2894.8	2894.8	2920.2	2893.2	2923.4
15°	2904.3	2864.6	2821.8	2718.6	2674.2	2707.5	2828.1	2869.4	2891.6	2864.6	2894.8
17.5°	2874.2	2828.1	2745.6	2625.0	2583.7	2617.1	2740.9	2831.3	2859.9	2831.3	2858.3
20°	2836.1	2782.1	2664.7	2526.6	2499.6	2529.8	2653.6	2785.3	2825.0	2790.1	2809.1
22.5°	2794.8	2729.7	2574.2	2450.4	2437.7	2456.8	2569.4	2728.2	2780.5	2744.0	2756.7
25°	2744.0	2667.8	2483.7	2380.6	2371.1	2382.2	2486.9	2661.5	2729.7	2691.7	2696.4
27.5°	2690.1	2607.5	2398.0	2321.9	2312.3	2317.1	2404.4	2586.9	2671.0	2632.9	2625.0
30°	2625.0	2536.1	2312.3	2242.5	2233.0	2250.5	2325.0	2510.7	2606.0	2567.9	2544.1
32.5°	2559.9	2458.4	2228.2	2174.3	2155.2	2171.1	2242.5	2431.4	2534.5	2494.9	2455.2
35°	2479.0	2375.8	2140.9	2087.0	2071.1	2088.6	2160.0	2348.8	2453.6	2413.9	2360.0
37.5°	2394.9	2288.5	2061.6	2012.4	1983.8	2004.5	2075.9	2263.1	2369.5	2328.2	2261.6
40°	2310.8	2196.5	1972.7	1921.9	1885.4	1915.6	1988.6	2172.7	2274.3	2236.2	2160.0
42.5°	2212.4	2104.4	1885.4	1814.0	1710.8	1807.7	1894.9	2082.2	2175.9	2139.4	2047.3
45°	2109.2	2006.0	1793.4	1620.4	1352.2	1636.3	1799.7	1987.0	2061.6	2026.7	1926.7
47.5°	1991.8	1904.5	1699.7	1436.3	1176.0	1452.2	1702.9	1896.5	1953.7	1915.6	1804.5
50°	1888.6	1802.9	1601.3	1280.8	1052.2	1298.2	1599.8	1795.0	1842.6	1807.7	1683.9
52.5°	1771.2	1696.6	1495.0	1142.7	960.2	1160.1	1491.8	1690.2	1728.3	1687.0	1563.3
55°	1655.3	1588.6	1382.3	1020.5	879.2	1036.3	1379.2	1582.3	1612.5	1564.8	1436.3
57.5°	1537.9	1477.6	1266.5	911.0	804.6	928.4	1274.4	1471.2	1491.8	1431.5	1314.1
60°	1415.7	1364.9	1149.0	814.2	731.6	828.4	1145.9	1360.1	1372.8	1307.7	1195.1
62.5°	1293.5	1247.4	1031.6	725.3	657.0	734.8	1039.5	1242.7	1250.6	1188.7	1072.9
65°	1168.1	1125.2	917.3	631.6	585.6	647.5	925.3	1120.5	1128.4	1058.6	953.8
67.5°	1037.9	1003.0	795.1	560.2	517.4	565.0	811.0	996.7	1001.4	933.2	838.0
70°	907.8	877.6	687.2	482.5	450.7	484.1	698.3	860.2	869.7	796.7	720.5
72.5°	774.5	750.7	582.5	401.5	373.0	401.5	588.8	734.8	741.2	680.8	606.3
75°	639.6	622.1	476.1	322.2	300.0	320.6	479.3	609.4	609.4	552.3	493.6
77.5°	509.4	496.7	365.0	247.6	231.7	244.4	366.6	482.5	479.3	434.9	388.8
80°	380.9	371.4	261.9	179.3	168.2	174.6	261.9	357.1	357.1	325.3	269.8
82.5°	273.0	261.9	173.0	117.4	111.1	114.3	169.8	249.2	253.9	230.1	182.5
85°	180.9	155.5	93.6	65.1	60.3	61.9	88.9	144.4	158.7	133.3	95.2
87.5°	79.4	52.4	23.8	9.5	4.8	6.3	19.0	46.0	60.3	39.7	12.7
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°	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3
2.5°	2967.8	2942.4	2951.9	2958.3	2951.9	2980.5
5°	2964.6	2953.5	2951.9	2959.9	2947.2	2975.7
7.5°	2959.9	2953.5	2951.9	2955.1	2939.2	2966.2
10°	2948.8	2939.2	2942.4	2947.2	2926.5	2951.9
12.5°	2928.1	2918.6	2920.2	2936.1	2907.5	2929.7
15°	2893.2	2882.1	2893.2	2910.7	2885.3	2904.3
17.5°	2847.2	2829.7	2848.8	2875.8	2856.7	2874.2
20°	2788.5	2761.5	2782.1	2831.3	2813.9	2836.1
22.5°	2717.0	2683.7	2704.3	2775.8	2771.0	2794.8
25°	2636.1	2596.4	2625.0	2712.3	2721.8	2744.0
27.5°	2545.6	2501.2	2539.3	2642.5	2664.7	2690.1
30°	2447.2	2399.6	2444.1	2564.7	2598.0	2625.0
32.5°	2345.7	2293.3	2344.1	2477.4	2525.0	2559.9
35°	2239.3	2185.4	2242.5	2386.9	2444.1	2479.0
37.5°	2125.1	2072.7	2134.6	2291.7	2360.0	2394.9
40°	2007.6	1948.9	2018.7	2179.0	2269.5	2310.8
42.5°	1887.0	1814.0	1899.7	2072.7	2171.1	2212.4
45°	1752.1	1650.5	1766.4	1960.0	2063.2	2109.2
47.5°	1617.2	1515.6	1633.1	1839.4	1950.5	1991.8
50°	1487.1	1399.8	1493.4	1707.7	1836.2	1888.6
52.5°	1368.0	1296.6	1376.0	1579.1	1718.8	1771.2
55°	1257.0	1201.4	1266.5	1452.2	1595.0	1655.3
57.5°	1152.2	1117.3	1161.7	1331.5	1480.7	1537.9
60°	1053.8	1030.0	1061.7	1212.5	1345.8	1415.7
62.5°	957.0	944.3	968.1	1087.1	1220.4	1293.5
65°	863.4	860.2	872.9	977.6	1088.7	1168.1
67.5°	769.7	768.1	776.1	861.8	960.2	1037.9
70°	676.1	685.6	680.8	736.4	831.6	907.8
72.5°	580.9	595.1	587.2	622.1	714.2	774.5
75°	474.5	493.6	477.7	517.4	574.5	639.6
77.5°	365.0	385.7	366.6	401.5	463.4	509.4
80°	261.9	280.9	265.0	292.0	346.0	380.9
82.5°	165.1	179.3	166.6	193.6	247.6	273.0
85°	73.0	80.9	84.1	104.7	152.4	180.9
87.5°	3.2	1.6	3.2	20.6	54.0	79.4
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)