

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: P520687

Luminaire Tested: **8WSLA-150-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: P520687
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-150-L930-UNV-U
Description: 8 FOOT, 3000 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

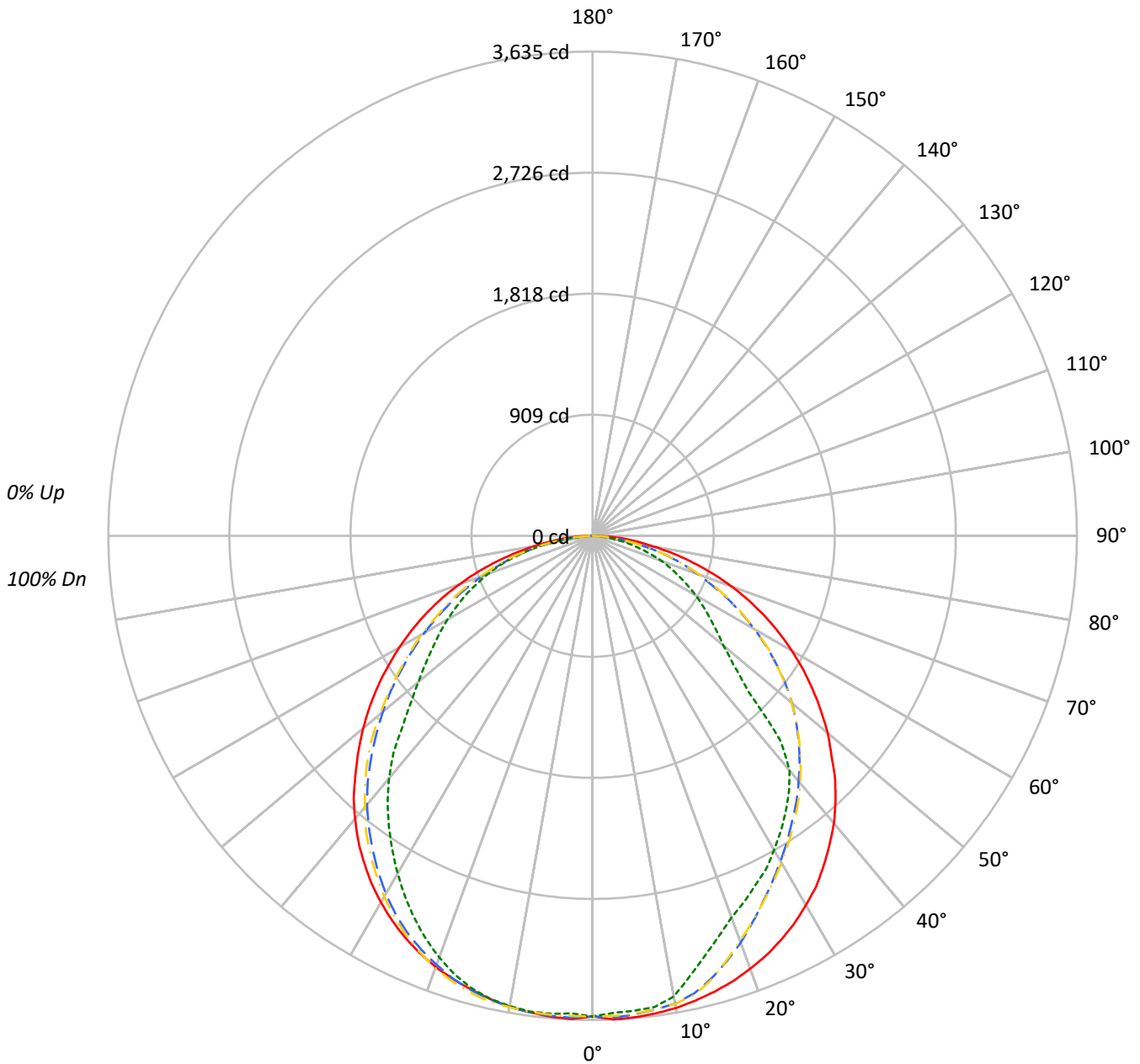
Lumens per Lamp: N/A
Luminaire Lumens: 9679.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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									
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°	9709	9709	9709	9709
5°	9804	9668	9788	9730
10°	9838	9594	9811	9795
15°	9868	9086	9825	9793
20°	9905	8730	9867	9645
25°	9937	8586	9885	9402
30°	9948	8462	9876	9094
35°	9932	8298	9831	8756
40°	9900	8078	9744	8350
45°	9790	6276	9569	7661
50°	9643	5372	9408	7147
55°	9472	5031	9226	6875
60°	9292	4802	9011	6761
65°	9071	4548	8763	6680
70°	8711	4325	8345	6579
75°	8111	3803	7728	6259
80°	7200	3180	6749	5309
85°	6814	2272	5978	3047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.8	3.5
10°-20°	977.8	10.1
20°-30°	1461.1	15.1
30°-40°	1739.2	18.0
40°-50°	1738.5	18.0
50°-60°	1495.9	15.5
60°-70°	1125.9	11.6
70°-80°	641.6	6.6
80°-90°	156.2	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°	2781.7	28.7
0°-40°	4520.9	46.7
0°-60°	7755.3	80.1
0°-90°	9679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9679.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3608	3608	3608	3608	3608	
5°	3629	3579	3624	3602	3629	345
15°	3542	3262	3527	3515	3542	1001
25°	3347	2892	3329	3167	3347	1543
35°	3024	2526	2992	2665	3024	1892
45°	2572	1649	2514	2013	2572	1981
55°	2019	1072	1967	1465	2019	1805
65°	1425	714	1376	1049	1425	1407
75°	780	366	743	602	780	826
85°	221	74	194	99	221	240
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°	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0
2.5°	3635.1	3602.2	3621.6	3615.8	3584.8	3596.4	3608.0	3596.4	3631.2	3600.3	3621.6
5°	3629.3	3594.5	3606.1	3594.5	3579.0	3582.8	3600.3	3588.7	3623.5	3590.6	3617.7
7.5°	3617.7	3575.1	3586.7	3580.9	3567.4	3569.3	3586.7	3577.0	3608.0	3577.0	3608.0
10°	3600.3	3555.7	3565.4	3540.3	3511.2	3532.5	3567.4	3557.7	3590.6	3555.7	3590.6
12.5°	3573.2	3528.7	3519.0	3435.7	3383.5	3424.1	3530.6	3530.6	3561.6	3528.7	3565.4
15°	3542.2	3493.8	3441.5	3315.7	3261.5	3302.2	3449.3	3499.6	3526.7	3493.8	3530.6
17.5°	3505.4	3449.3	3348.6	3201.5	3151.2	3191.9	3342.8	3453.2	3488.0	3453.2	3486.1
20°	3459.0	3393.2	3249.9	3081.5	3048.6	3085.4	3236.4	3397.0	3445.4	3402.8	3426.1
22.5°	3408.6	3329.3	3139.6	2988.6	2973.1	2996.4	3133.8	3327.3	3391.2	3346.7	3362.2
25°	3346.7	3253.8	3029.3	2903.4	2891.8	2905.4	3033.1	3246.0	3329.3	3282.8	3288.6
27.5°	3280.9	3180.2	2924.7	2831.8	2820.2	2826.0	2932.5	3155.1	3257.7	3211.2	3201.5
30°	3201.5	3093.1	2820.2	2735.0	2723.4	2744.7	2835.7	3062.2	3178.3	3131.8	3102.8
32.5°	3122.2	2998.3	2717.6	2651.8	2628.6	2647.9	2735.0	2965.4	3091.2	3042.8	2994.4
35°	3023.5	2897.6	2611.2	2545.4	2526.0	2547.3	2634.4	2864.7	2992.5	2944.1	2878.3
37.5°	2920.9	2791.2	2514.4	2454.4	2419.5	2444.7	2531.8	2760.2	2889.9	2839.6	2758.3
40°	2818.3	2678.9	2406.0	2344.0	2299.5	2336.3	2425.3	2649.9	2773.8	2727.3	2634.4
42.5°	2698.3	2566.6	2299.5	2212.4	2086.6	2204.7	2311.1	2539.5	2653.7	2609.2	2497.0
45°	2572.5	2446.6	2187.3	1976.3	1649.2	1995.6	2195.0	2423.4	2514.4	2471.8	2349.9
47.5°	2429.2	2322.8	2073.1	1751.7	1434.3	1771.1	2076.9	2313.1	2382.8	2336.3	2200.8
50°	2303.4	2198.9	1953.0	1562.1	1283.3	1583.3	1951.1	2189.2	2247.3	2204.7	2053.7
52.5°	2160.2	2069.2	1823.4	1393.7	1171.1	1414.9	1819.5	2061.4	2107.9	2057.6	1906.6
55°	2018.9	1937.6	1685.9	1244.6	1072.3	1264.0	1682.1	1929.8	1966.6	1908.5	1751.7
57.5°	1875.6	1802.1	1544.6	1111.1	981.4	1132.3	1554.3	1794.3	1819.5	1745.9	1602.7
60°	1726.6	1664.6	1401.4	993.0	892.3	1010.4	1397.5	1658.8	1674.3	1595.0	1457.5
62.5°	1577.5	1521.4	1258.2	884.6	801.4	896.2	1267.8	1515.6	1525.3	1449.8	1308.5
65°	1424.6	1372.4	1118.8	770.4	714.2	789.7	1128.5	1366.6	1376.2	1291.1	1163.3
67.5°	1265.9	1223.3	969.7	683.3	631.0	689.1	989.1	1215.6	1221.4	1138.1	1022.0
70°	1107.2	1070.4	838.1	588.4	549.7	590.4	851.7	1049.1	1060.7	971.7	878.8
72.5°	944.6	915.6	710.4	489.7	454.9	489.7	718.1	896.2	903.9	830.4	739.4
75°	780.1	758.8	580.7	392.9	365.8	391.0	584.6	743.3	743.3	673.6	602.0
77.5°	621.3	605.9	445.2	302.0	282.6	298.1	447.1	588.4	584.6	530.4	474.2
80°	464.6	452.9	319.4	218.7	205.2	212.9	319.4	435.5	435.5	396.8	329.1
82.5°	332.9	319.4	211.0	143.2	135.5	139.4	207.1	303.9	309.7	280.7	222.6
85°	220.7	189.7	114.2	79.4	73.6	75.5	108.4	176.1	193.6	162.6	116.1
87.5°	96.8	63.9	29.0	11.6	5.8	7.7	23.2	56.1	73.6	48.4	15.5
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°	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0
2.5°	3619.6	3588.7	3600.3	3608.0	3600.3	3635.1
5°	3615.8	3602.2	3600.3	3609.9	3594.5	3629.3
7.5°	3609.9	3602.2	3600.3	3604.1	3584.8	3617.7
10°	3596.4	3584.8	3588.7	3594.5	3569.3	3600.3
12.5°	3571.2	3559.6	3561.6	3580.9	3546.1	3573.2
15°	3528.7	3515.1	3528.7	3549.9	3519.0	3542.2
17.5°	3472.5	3451.2	3474.5	3507.4	3484.1	3505.4
20°	3400.9	3368.0	3393.2	3453.2	3431.9	3459.0
22.5°	3313.8	3273.1	3298.3	3385.4	3379.6	3408.6
25°	3215.1	3166.7	3201.5	3308.0	3319.6	3346.7
27.5°	3104.7	3050.6	3097.0	3222.8	3249.9	3280.9
30°	2984.7	2926.7	2980.9	3128.0	3168.6	3201.5
32.5°	2860.9	2797.0	2858.9	3021.5	3079.6	3122.2
35°	2731.2	2665.4	2735.0	2911.2	2980.9	3023.5
37.5°	2591.8	2527.9	2603.4	2795.0	2878.3	2920.9
40°	2448.6	2377.0	2462.1	2657.6	2767.9	2818.3
42.5°	2301.5	2212.4	2316.9	2527.9	2647.9	2698.3
45°	2136.9	2013.1	2154.4	2390.5	2516.3	2572.5
47.5°	1972.4	1848.5	1991.8	2243.4	2378.9	2429.2
50°	1813.7	1707.2	1821.4	2082.7	2239.5	2303.4
52.5°	1668.5	1581.4	1678.2	1926.0	2096.3	2160.2
55°	1533.0	1465.3	1544.6	1771.1	1945.3	2018.9
57.5°	1405.3	1362.7	1416.9	1624.0	1805.9	1875.6
60°	1285.3	1256.2	1294.9	1478.8	1641.4	1726.6
62.5°	1167.2	1151.7	1180.7	1325.9	1488.5	1577.5
65°	1053.0	1049.1	1064.6	1192.3	1327.8	1424.6
67.5°	938.8	936.8	946.5	1051.0	1171.1	1265.9
70°	824.6	836.2	830.4	898.1	1014.3	1107.2
72.5°	708.4	725.9	716.2	758.8	871.0	944.6
75°	578.8	602.0	582.6	631.0	700.7	780.1
77.5°	445.2	470.4	447.1	489.7	565.2	621.3
80°	319.4	342.6	323.2	356.2	422.0	464.6
82.5°	201.3	218.7	203.2	236.1	302.0	332.9
85°	89.0	98.7	102.6	127.8	185.8	220.7
87.5°	3.9	1.9	3.9	25.2	65.8	96.8
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)