

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: P520675

Luminaire Tested: **8WSLA-150-L830-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: P520675
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-L830-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

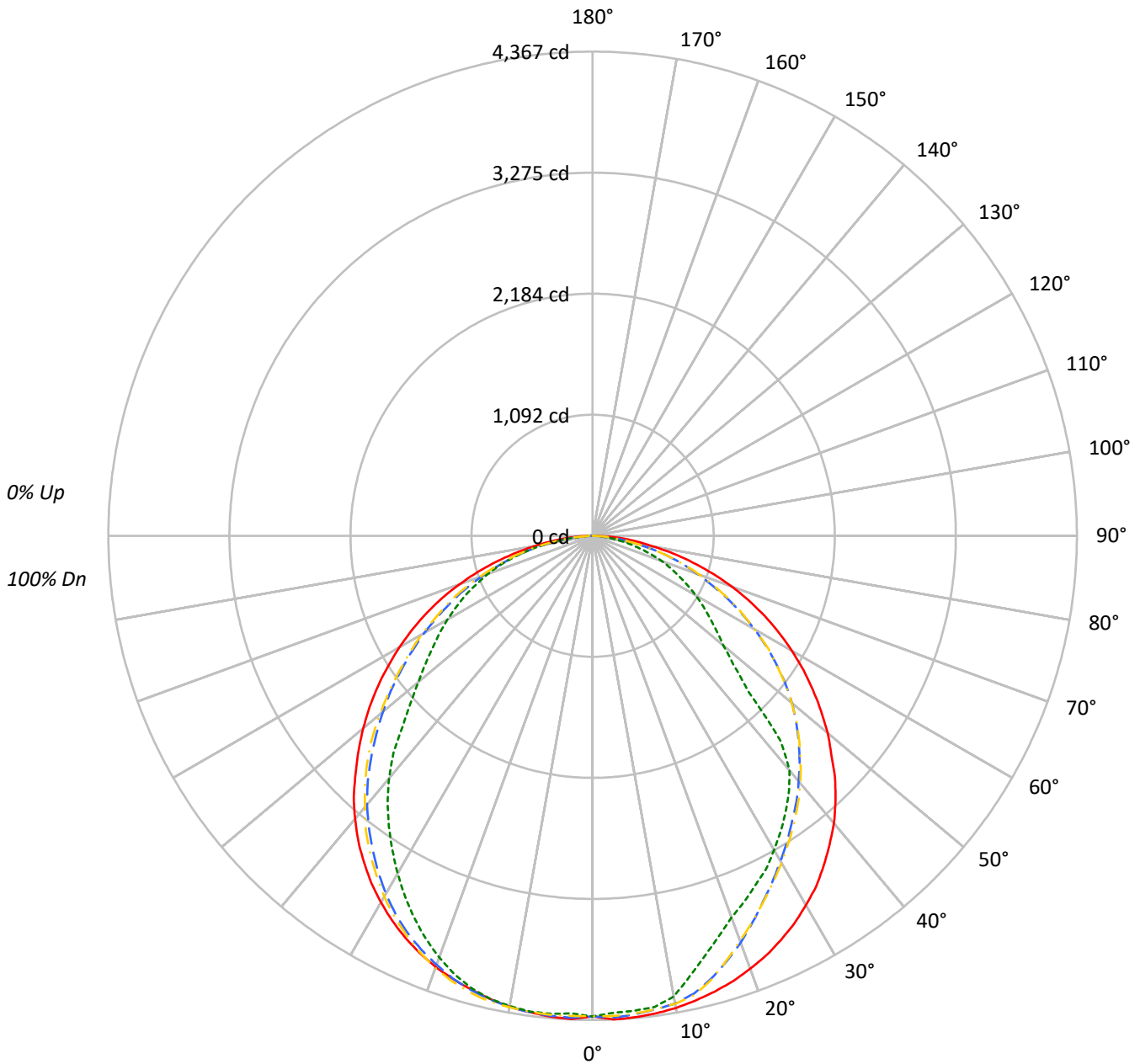
Lumens per Lamp: N/A
Luminaire Lumens: 11628.0 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	11664	11664	11664	11664
5°	11778	11615	11759	11690
10°	11819	11526	11787	11768
15°	11855	10916	11804	11765
20°	11900	10488	11853	11587
25°	11938	10315	11876	11296
30°	11951	10166	11865	10925
35°	11932	9969	11810	10519
40°	11894	9705	11706	10031
45°	11761	7540	11496	9204
50°	11585	6454	11302	8586
55°	11379	6044	11084	8259
60°	11164	5769	10826	8122
65°	10898	5464	10528	8025
70°	10465	5196	10026	7904
75°	9743	4570	9285	7519
80°	8649	3820	8108	6378
85°	8185	2729	7179	3662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.9	3.5
10°-20°	1174.7	10.1
20°-30°	1755.3	15.1
30°-40°	2089.4	18.0
40°-50°	2088.5	18.0
50°-60°	1797.1	15.5
60°-70°	1352.6	11.6
70°-80°	770.8	6.6
80°-90°	187.6	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°	3341.9	28.7
0°-40°	5431.3	46.7
0°-60°	9317.0	80.1
0°-90°	11628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11628.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4334	4334	4334	4334	4334	
5°	4360	4300	4353	4328	4360	415
15°	4256	3918	4237	4223	4256	1202
25°	4021	3474	4000	3804	4021	1854
35°	3632	3035	3595	3202	3632	2273
45°	3090	1981	3021	2418	3090	2380
55°	2425	1288	2363	1760	2425	2168
65°	1712	858	1653	1260	1712	1690
75°	937	440	893	723	937	992
85°	265	88	232	119	265	289
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°	4334.5	4334.5	4334.5	4334.5	4334.5	4334.5	4334.5	4334.5	4334.5	4334.5	4334.5
2.5°	4367.1	4327.6	4350.8	4343.8	4306.6	4320.6	4334.5	4320.6	4362.4	4325.2	4350.8
5°	4360.1	4318.3	4332.2	4318.3	4299.7	4304.3	4325.2	4311.3	4353.1	4313.6	4346.2
7.5°	4346.2	4295.0	4309.0	4302.0	4285.7	4288.0	4309.0	4297.3	4334.5	4297.3	4334.5
10°	4325.2	4271.7	4283.4	4253.1	4218.3	4243.8	4285.7	4274.1	4313.6	4271.7	4313.6
12.5°	4292.7	4239.2	4227.6	4127.6	4064.8	4113.6	4241.5	4241.5	4278.7	4239.2	4283.4
15°	4255.5	4197.3	4134.6	3983.4	3918.3	3967.1	4143.9	4204.3	4236.9	4197.3	4241.5
17.5°	4211.3	4143.9	4022.9	3846.2	3785.7	3834.6	4016.0	4148.5	4190.4	4148.5	4188.0
20°	4155.5	4076.4	3904.3	3702.0	3662.5	3706.7	3888.1	4081.1	4139.2	4088.0	4115.9
22.5°	4095.0	3999.7	3771.8	3590.4	3571.8	3599.7	3764.8	3997.4	4074.1	4020.6	4039.2
25°	4020.6	3909.0	3639.2	3488.1	3474.1	3490.4	3643.9	3899.7	3999.7	3943.9	3950.8
27.5°	3941.5	3820.6	3513.7	3402.1	3388.1	3395.1	3523.0	3790.4	3913.6	3857.8	3846.2
30°	3846.2	3716.0	3388.1	3285.8	3271.8	3297.4	3406.7	3678.8	3818.3	3762.5	3727.6
32.5°	3750.9	3602.0	3264.9	3185.8	3157.9	3181.1	3285.8	3562.5	3713.7	3655.5	3597.4
35°	3632.3	3481.1	3137.0	3057.9	3034.6	3060.2	3164.9	3441.6	3595.1	3536.9	3457.9
37.5°	3509.0	3353.2	3020.7	2948.6	2906.7	2937.0	3041.6	3316.0	3471.8	3411.4	3313.7
40°	3385.8	3218.3	2890.5	2816.1	2762.6	2806.8	2913.7	3183.5	3332.3	3276.5	3164.9
42.5°	3241.6	3083.5	2762.6	2657.9	2506.8	2648.6	2776.5	3050.9	3188.1	3134.6	2999.8
45°	3090.4	2939.3	2627.7	2374.2	1981.2	2397.5	2637.0	2911.4	3020.7	2969.5	2823.0
47.5°	2918.4	2790.5	2490.5	2104.5	1723.1	2127.7	2495.1	2778.8	2862.6	2806.8	2644.0
50°	2767.2	2641.6	2346.3	1876.6	1541.7	1902.2	2344.0	2630.0	2699.8	2648.6	2467.2
52.5°	2595.1	2485.8	2190.5	1674.3	1406.9	1699.9	2185.9	2476.5	2532.4	2471.9	2290.5
55°	2425.4	2327.7	2025.4	1495.2	1288.3	1518.5	2020.8	2318.4	2362.6	2292.8	2104.5
57.5°	2253.3	2164.9	1855.7	1334.8	1179.0	1360.4	1867.3	2155.6	2185.9	2097.5	1925.4
60°	2074.3	1999.8	1683.6	1192.9	1072.0	1213.9	1678.9	1992.9	2011.5	1916.1	1751.0
62.5°	1895.2	1827.8	1511.5	1062.7	962.7	1076.7	1523.1	1820.8	1832.4	1741.7	1572.0
65°	1711.5	1648.7	1344.1	925.5	858.1	948.8	1355.7	1641.7	1653.4	1551.0	1397.6
67.5°	1520.8	1469.6	1165.0	820.9	758.1	827.8	1188.3	1460.3	1467.3	1367.3	1227.8
70°	1330.1	1285.9	1006.9	706.9	660.4	709.2	1023.2	1260.4	1274.3	1167.3	1055.7
72.5°	1134.8	1099.9	853.4	588.3	546.5	588.3	862.7	1076.7	1086.0	997.6	888.3
75°	937.1	911.6	697.6	472.1	439.5	469.7	702.3	893.0	893.0	809.2	723.2
77.5°	746.5	727.8	534.8	362.8	339.5	358.1	537.2	706.9	702.3	637.2	569.7
80°	558.1	544.1	383.7	262.8	246.5	255.8	383.7	523.2	523.2	476.7	395.3
82.5°	400.0	383.7	253.5	172.1	162.8	167.4	248.8	365.1	372.1	337.2	267.4
85°	265.1	227.9	137.2	95.3	88.4	90.7	130.2	211.6	232.5	195.3	139.5
87.5°	116.3	76.7	34.9	14.0	7.0	9.3	27.9	67.4	88.4	58.1	18.6
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°	4334.5	4334.5	4334.5	4334.5	4334.5	4334.5
2.5°	4348.5	4311.3	4325.2	4334.5	4325.2	4367.1
5°	4343.8	4327.6	4325.2	4336.9	4318.3	4360.1
7.5°	4336.9	4327.6	4325.2	4329.9	4306.6	4346.2
10°	4320.6	4306.6	4311.3	4318.3	4288.0	4325.2
12.5°	4290.4	4276.4	4278.7	4302.0	4260.1	4292.7
15°	4239.2	4222.9	4239.2	4264.8	4227.6	4255.5
17.5°	4171.8	4146.2	4174.1	4213.6	4185.7	4211.3
20°	4085.7	4046.2	4076.4	4148.5	4122.9	4155.5
22.5°	3981.1	3932.2	3962.5	4067.1	4060.1	4095.0
25°	3862.5	3804.3	3846.2	3974.1	3988.1	4020.6
27.5°	3729.9	3664.8	3720.6	3871.8	3904.3	3941.5
30°	3585.8	3516.0	3581.1	3757.8	3806.7	3846.2
32.5°	3436.9	3360.2	3434.6	3629.9	3699.7	3750.9
35°	3281.1	3202.1	3285.8	3497.4	3581.1	3632.3
37.5°	3113.7	3037.0	3127.7	3357.9	3457.9	3509.0
40°	2941.6	2855.6	2957.9	3192.8	3325.3	3385.8
42.5°	2764.9	2657.9	2783.5	3037.0	3181.1	3241.6
45°	2567.2	2418.4	2588.2	2871.9	3023.0	3090.4
47.5°	2369.6	2220.8	2392.8	2695.1	2857.9	2918.4
50°	2178.9	2051.0	2188.2	2502.1	2690.5	2767.2
52.5°	2004.5	1899.8	2016.1	2313.8	2518.4	2595.1
55°	1841.7	1760.3	1855.7	2127.7	2337.0	2425.4
57.5°	1688.2	1637.1	1702.2	1951.0	2169.6	2253.3
60°	1544.1	1509.2	1555.7	1776.6	1971.9	2074.3
62.5°	1402.2	1383.6	1418.5	1592.9	1788.2	1895.2
65°	1265.0	1260.4	1279.0	1432.4	1595.2	1711.5
67.5°	1127.8	1125.5	1137.1	1262.7	1406.9	1520.8
70°	990.6	1004.6	997.6	1079.0	1218.5	1330.1
72.5°	851.1	872.0	860.4	911.6	1046.4	1134.8
75°	695.3	723.2	699.9	758.1	841.8	937.1
77.5°	534.8	565.1	537.2	588.3	679.0	746.5
80°	383.7	411.6	388.3	427.9	506.9	558.1
82.5°	241.8	262.8	244.2	283.7	362.8	400.0
85°	107.0	118.6	123.2	153.5	223.2	265.1
87.5°	4.7	2.3	4.7	30.2	79.1	116.3
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)