

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: P520678

Luminaire Tested: **8WSLA-150-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: P520678
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-L835-UNV-U
Description: 8 FOOT, 3000 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

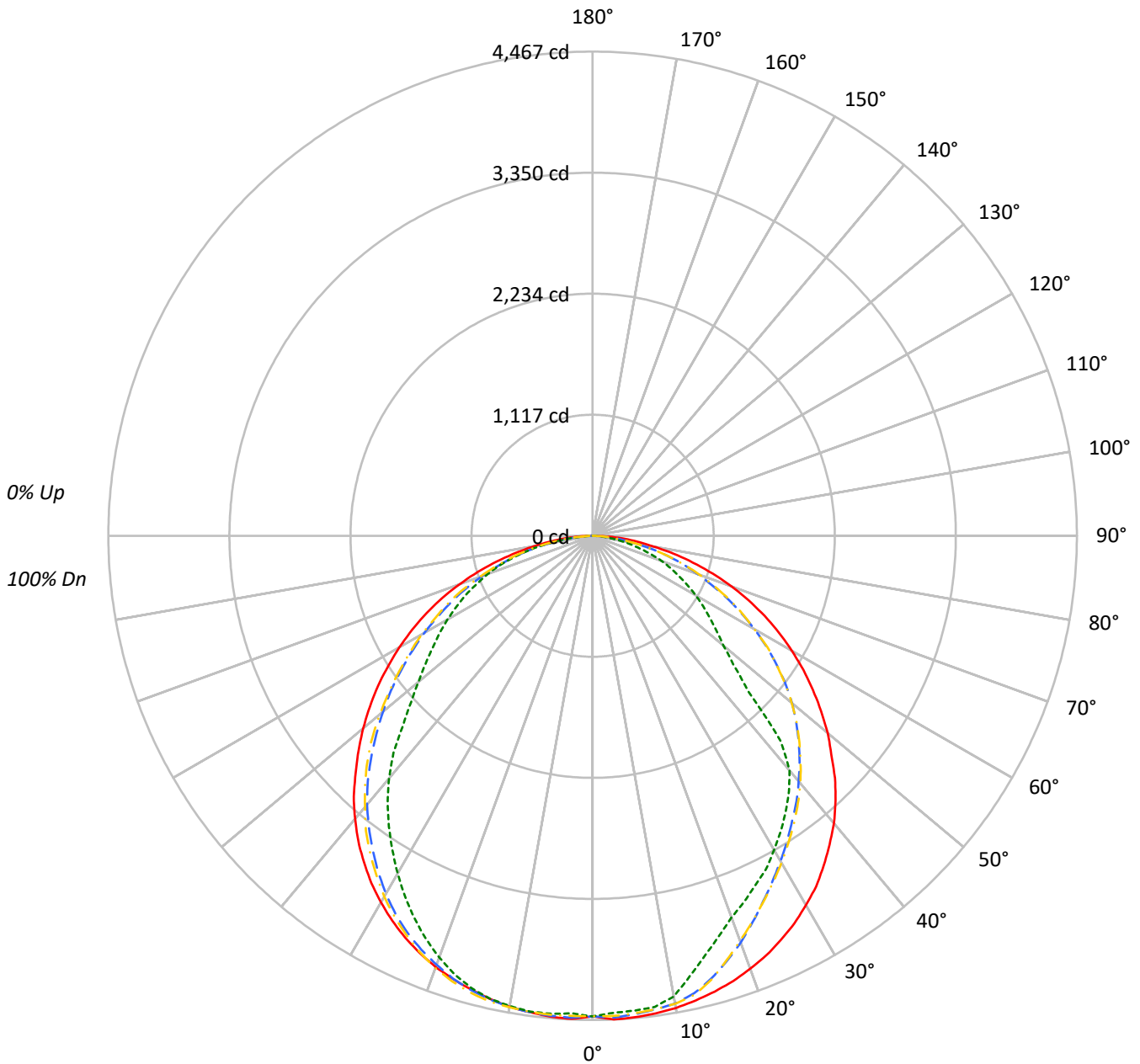
Lumens per Lamp: N/A
Luminaire Lumens: 11894.0 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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°	11931	11931	11931	11931
5°	12047	11880	12028	11957
10°	12089	11790	12057	12037
15°	12126	11166	12074	12034
20°	12172	10728	12125	11852
25°	12211	10551	12147	11554
30°	12225	10399	12136	11175
35°	12205	10197	12080	10760
40°	12166	9927	11973	10261
45°	12030	7712	11759	9414
50°	11850	6602	11561	8783
55°	11639	6182	11338	8448
60°	11419	5901	11073	8308
65°	11147	5589	10769	8209
70°	10705	5315	10256	8085
75°	9967	4675	9497	7691
80°	8847	3907	8294	6524
85°	8373	2791	7345	3745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.3	3.5
10°-20°	1201.6	10.1
20°-30°	1795.5	15.1
30°-40°	2137.2	18.0
40°-50°	2136.3	18.0
50°-60°	1838.2	15.5
60°-70°	1383.6	11.6
70°-80°	788.4	6.6
80°-90°	191.9	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°	3418.3	28.7
0°-40°	5555.6	46.7
0°-60°	9530.1	80.1
0°-90°	11894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11894.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4434	4434	4434	4434	4434	
5°	4460	4398	4453	4427	4460	424
15°	4353	4008	4334	4320	4353	1230
25°	4113	3554	4091	3891	4113	1896
35°	3715	3104	3677	3275	3715	2325
45°	3161	2027	3090	2474	3161	2434
55°	2481	1318	2417	1801	2481	2218
65°	1751	878	1691	1289	1751	1729
75°	959	450	913	740	959	1015
85°	271	90	238	121	271	295
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°	4433.7	4433.7	4433.7	4433.7	4433.7	4433.7	4433.7	4433.7	4433.7	4433.7	4433.7
2.5°	4467.0	4426.6	4450.3	4443.2	4405.1	4419.4	4433.7	4419.4	4462.2	4424.2	4450.3
5°	4459.9	4417.0	4431.3	4417.0	4398.0	4402.8	4424.2	4409.9	4452.7	4412.3	4445.6
7.5°	4445.6	4393.3	4407.5	4400.4	4383.7	4386.1	4407.5	4395.6	4433.7	4395.6	4433.7
10°	4424.2	4369.5	4381.4	4350.4	4314.8	4340.9	4383.7	4371.8	4412.3	4369.5	4412.3
12.5°	4390.9	4336.2	4324.3	4222.0	4157.8	4207.7	4338.5	4338.5	4376.6	4336.2	4381.4
15°	4352.8	4293.4	4229.1	4074.5	4007.9	4057.9	4238.6	4300.5	4333.8	4293.4	4338.5
17.5°	4307.6	4238.6	4115.0	3934.2	3872.3	3922.3	4107.8	4243.4	4286.2	4243.4	4283.8
20°	4250.5	4169.7	3993.7	3786.7	3746.3	3791.5	3977.0	4174.4	4233.9	4181.6	4210.1
22.5°	4188.7	4091.2	3858.1	3672.5	3653.5	3682.1	3850.9	4088.8	4167.3	4112.6	4131.6
25°	4112.6	3998.4	3722.5	3567.9	3553.6	3570.3	3727.2	3988.9	4091.2	4034.1	4041.2
27.5°	4031.7	3908.0	3594.0	3479.9	3465.6	3472.7	3603.6	3877.1	4003.2	3946.1	3934.2
30°	3934.2	3801.0	3465.6	3360.9	3346.7	3372.8	3484.6	3762.9	3905.6	3848.6	3812.9
32.5°	3836.7	3684.4	3339.5	3258.7	3230.1	3253.9	3360.9	3644.0	3798.6	3739.1	3679.7
35°	3715.4	3560.7	3208.7	3127.8	3104.1	3130.2	3237.3	3520.3	3677.3	3617.8	3537.0
37.5°	3589.3	3429.9	3089.8	3016.1	2973.2	3004.2	3111.2	3391.9	3551.2	3489.4	3389.5
40°	3463.2	3292.0	2956.6	2880.5	2825.8	2871.0	2980.4	3256.3	3408.5	3351.4	3237.3
42.5°	3315.8	3154.0	2825.8	2718.7	2564.1	2709.2	2840.0	3120.7	3261.0	3206.3	3068.4
45°	3161.1	3006.5	2687.8	2428.5	2026.6	2452.3	2697.3	2978.0	3089.8	3037.5	2887.6
47.5°	2985.1	2854.3	2547.5	2152.6	1762.5	2176.4	2552.2	2842.4	2928.0	2871.0	2704.5
50°	2830.5	2702.1	2400.0	1919.5	1577.0	1945.7	2397.6	2690.2	2761.5	2709.2	2523.7
52.5°	2654.5	2542.7	2240.6	1712.6	1439.0	1738.7	2235.9	2533.2	2590.3	2528.4	2342.9
55°	2480.9	2381.0	2071.8	1529.4	1317.7	1553.2	2067.0	2371.5	2416.6	2345.3	2152.6
57.5°	2304.9	2214.5	1898.1	1365.3	1205.9	1391.5	1910.0	2205.0	2235.9	2145.5	1969.5
60°	2121.7	2045.6	1722.1	1220.2	1096.5	1241.6	1717.3	2038.5	2057.5	1960.0	1791.1
62.5°	1938.6	1869.6	1546.1	1087.0	984.7	1101.3	1558.0	1862.4	1874.3	1781.6	1607.9
65°	1750.6	1686.4	1374.8	946.7	877.7	970.5	1386.7	1679.3	1691.2	1586.5	1429.5
67.5°	1555.6	1503.3	1191.7	839.6	775.4	846.8	1215.5	1493.8	1500.9	1398.6	1255.9
70°	1360.6	1315.4	1029.9	723.1	675.5	725.5	1046.6	1289.2	1303.5	1194.1	1079.9
72.5°	1160.8	1125.1	872.9	601.8	559.0	601.8	882.5	1101.3	1110.8	1020.4	908.6
75°	958.6	932.4	713.6	482.9	449.6	480.5	718.3	913.4	913.4	827.7	739.7
77.5°	763.5	744.5	547.1	371.1	347.3	366.3	549.5	723.1	718.3	651.7	582.8
80°	570.9	556.6	392.5	268.8	252.1	261.6	392.5	535.2	535.2	487.6	404.4
82.5°	409.1	392.5	259.3	176.0	166.5	171.3	254.5	373.4	380.6	344.9	273.5
85°	271.2	233.1	140.3	97.5	90.4	92.8	133.2	216.5	237.9	199.8	142.7
87.5°	118.9	78.5	35.7	14.3	7.1	9.5	28.5	69.0	90.4	59.5	19.0
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°	4433.7	4433.7	4433.7	4433.7	4433.7	4433.7
2.5°	4448.0	4409.9	4424.2	4433.7	4424.2	4467.0
5°	4443.2	4426.6	4424.2	4436.1	4417.0	4459.9
7.5°	4436.1	4426.6	4424.2	4428.9	4405.1	4445.6
10°	4419.4	4405.1	4409.9	4417.0	4386.1	4424.2
12.5°	4388.5	4374.2	4376.6	4400.4	4357.6	4390.9
15°	4336.2	4319.5	4336.2	4362.3	4324.3	4352.8
17.5°	4267.2	4241.0	4269.6	4310.0	4281.5	4307.6
20°	4179.2	4138.7	4169.7	4243.4	4217.2	4250.5
22.5°	4072.1	4022.2	4053.1	4160.2	4153.0	4188.7
25°	3950.8	3891.4	3934.2	4065.0	4079.3	4112.6
27.5°	3815.3	3748.7	3805.7	3960.4	3993.7	4031.7
30°	3667.8	3596.4	3663.0	3843.8	3893.8	3934.2
32.5°	3515.6	3437.1	3513.2	3713.0	3784.3	3836.7
35°	3356.2	3275.3	3360.9	3577.4	3663.0	3715.4
37.5°	3184.9	3106.4	3199.2	3434.7	3537.0	3589.3
40°	3008.9	2920.9	3025.6	3265.8	3401.4	3463.2
42.5°	2828.1	2718.7	2847.2	3106.4	3253.9	3315.8
45°	2626.0	2473.7	2647.4	2937.6	3092.2	3161.1
47.5°	2423.8	2271.6	2447.6	2756.8	2923.3	2985.1
50°	2228.7	2097.9	2238.3	2559.4	2752.0	2830.5
52.5°	2050.3	1943.3	2062.2	2366.7	2576.0	2654.5
55°	1883.8	1800.6	1898.1	2176.4	2390.5	2480.9
57.5°	1726.9	1674.5	1741.1	1995.6	2219.2	2304.9
60°	1579.4	1543.7	1591.3	1817.2	2017.0	2121.7
62.5°	1434.3	1415.3	1450.9	1629.3	1829.1	1938.6
65°	1294.0	1289.2	1308.2	1465.2	1631.7	1750.6
67.5°	1153.6	1151.2	1163.1	1291.6	1439.0	1555.6
70°	1013.3	1027.6	1020.4	1103.7	1246.4	1360.6
72.5°	870.6	892.0	880.1	932.4	1070.4	1160.8
75°	711.2	739.7	716.0	775.4	861.0	958.6
77.5°	547.1	578.0	549.5	601.8	694.5	763.5
80°	392.5	421.0	397.2	437.7	518.5	570.9
82.5°	247.4	268.8	249.8	290.2	371.1	409.1
85°	109.4	121.3	126.1	157.0	228.3	271.2
87.5°	4.8	2.4	4.8	30.9	80.9	118.9
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)