

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: P520714

Luminaire Tested: **8WSLA-175-L935-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: P520714  
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-175-L935-UNV-U  
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

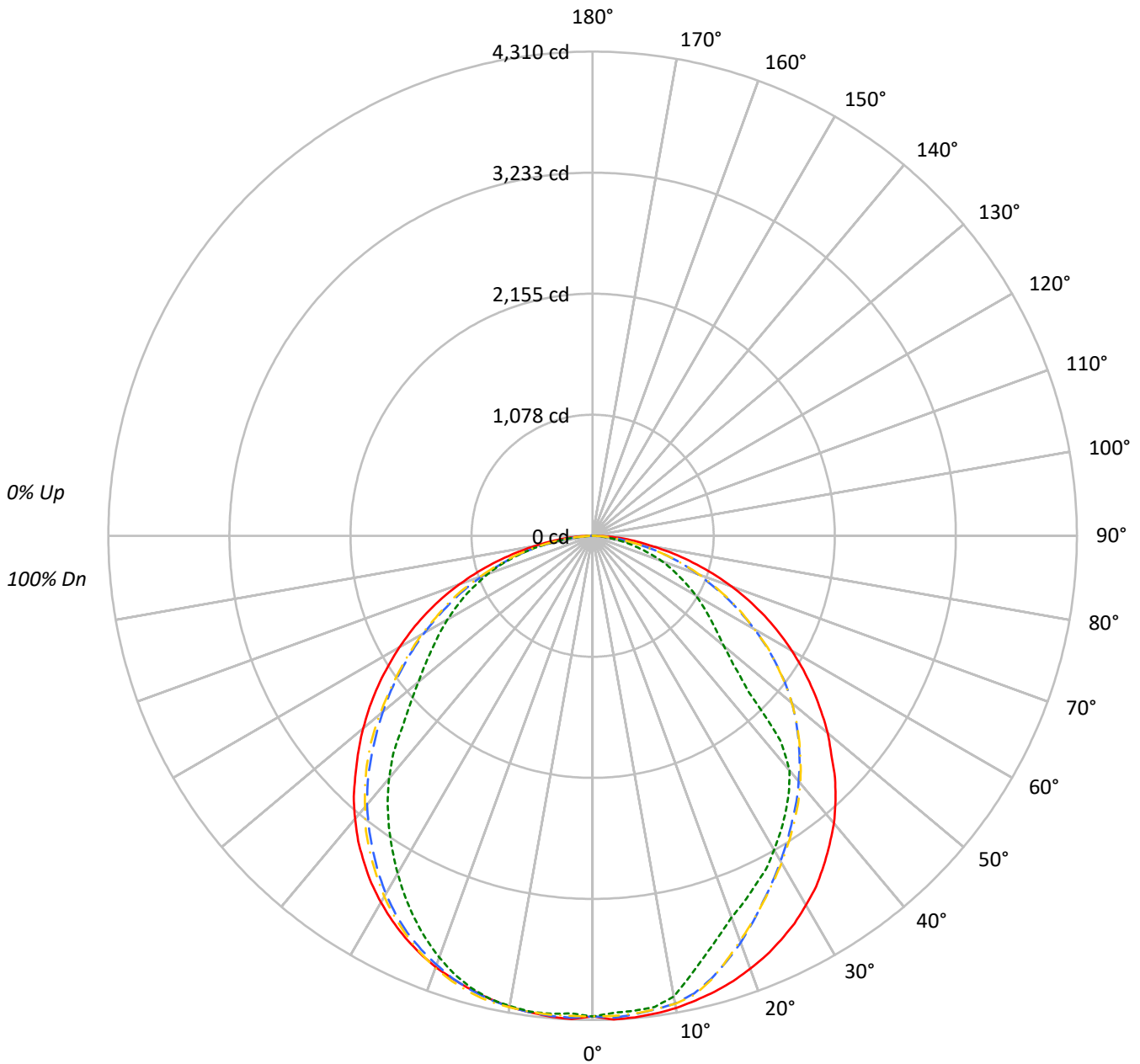
Lumens per Lamp: N/A  
Luminaire Lumens: 11477.0 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 119  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	11513	11513	11513	11513
5°	11625	11464	11606	11538
10°	11665	11377	11634	11615
15°	11701	10774	11650	11612
20°	11745	10352	11699	11436
25°	11783	10181	11721	11149
30°	11796	10034	11710	10783
35°	11777	9839	11657	10382
40°	11739	9578	11554	9901
45°	11608	7442	11346	9084
50°	11434	6370	11156	8475
55°	11231	5965	10940	8152
60°	11018	5695	10685	8017
65°	10756	5393	10391	7921
70°	10330	5128	9896	7801
75°	9617	4510	9164	7421
80°	8536	3770	8003	6295
85°	8080	2692	7086	3616



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.5	3.5
10°-20°	1159.4	10.1
20°-30°	1732.5	15.1
30°-40°	2062.3	18.0
40°-50°	2061.4	18.0
50°-60°	1773.8	15.5
60°-70°	1335.1	11.6
70°-80°	760.8	6.6
80°-90°	185.2	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°	3298.5	28.7
0°-40°	5360.8	46.7
0°-60°	9196.0	80.1
0°-90°	11477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11477.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4278	4278	4278	4278	4278	
5°	4304	4244	4297	4271	4304	410
15°	4200	3867	4182	4168	4200	1187
25°	3968	3429	3948	3755	3968	1830
35°	3585	2995	3548	3160	3585	2243
45°	3050	1956	2982	2387	3050	2349
55°	2394	1272	2332	1738	2394	2140
65°	1689	847	1632	1244	1689	1668
75°	925	434	881	714	925	979
85°	262	87	230	117	262	285
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°	4278.2	4278.2	4278.2	4278.2	4278.2	4278.2	4278.2	4278.2	4278.2	4278.2	4278.2
2.5°	4310.4	4271.4	4294.3	4287.4	4250.7	4264.5	4278.2	4264.5	4305.8	4269.1	4294.3
5°	4303.5	4262.2	4276.0	4262.2	4243.8	4248.4	4269.1	4255.3	4296.6	4257.6	4289.7
7.5°	4289.7	4239.2	4253.0	4246.1	4230.0	4232.3	4253.0	4241.5	4278.2	4241.5	4278.2
10°	4269.1	4216.3	4227.8	4197.9	4163.5	4188.7	4230.0	4218.6	4257.6	4216.3	4257.6
12.5°	4236.9	4184.1	4172.7	4074.0	4012.0	4060.2	4186.4	4186.4	4223.2	4184.1	4227.8
15°	4200.2	4142.8	4080.9	3931.7	3867.4	3915.6	4090.0	4149.7	4181.8	4142.8	4186.4
17.5°	4156.6	4090.0	3970.7	3796.3	3736.6	3784.8	3963.8	4094.6	4135.9	4094.6	4133.6
20°	4101.5	4023.5	3853.6	3654.0	3614.9	3658.5	3837.6	4028.1	4085.4	4035.0	4062.5
22.5°	4041.8	3947.7	3722.8	3543.8	3525.4	3553.0	3715.9	3945.4	4021.2	3968.4	3986.8
25°	3968.4	3858.2	3592.0	3442.8	3429.0	3445.1	3596.6	3849.0	3947.7	3892.7	3899.5
27.5°	3890.4	3771.0	3468.0	3357.9	3344.1	3351.0	3477.2	3741.2	3862.8	3807.7	3796.3
30°	3796.3	3667.7	3344.1	3243.1	3229.3	3254.6	3362.5	3631.0	3768.7	3713.6	3679.2
32.5°	3702.2	3555.3	3222.5	3144.4	3116.9	3139.8	3243.1	3516.2	3665.4	3608.0	3550.7
35°	3585.1	3435.9	3096.2	3018.2	2995.2	3020.5	3123.8	3396.9	3548.4	3491.0	3413.0
37.5°	3463.5	3309.7	2981.5	2910.3	2869.0	2898.8	3002.1	3273.0	3426.7	3367.1	3270.7
40°	3341.8	3176.6	2852.9	2779.5	2726.7	2770.3	2875.9	3142.1	3289.0	3233.9	3123.8
42.5°	3199.5	3043.4	2726.7	2623.4	2474.2	2614.2	2740.5	3011.3	3146.7	3093.9	2960.8
45°	3050.3	2901.1	2593.6	2343.4	1955.5	2366.3	2602.8	2873.6	2981.5	2931.0	2786.4
47.5°	2880.5	2754.2	2458.2	2077.2	1700.7	2100.1	2462.7	2742.8	2825.4	2770.3	2609.6
50°	2731.3	2607.3	2315.9	1852.2	1521.7	1877.5	2313.6	2595.9	2664.7	2614.2	2435.2
52.5°	2561.4	2453.6	2162.1	1652.5	1388.6	1677.8	2157.5	2444.4	2499.5	2439.8	2260.8
55°	2393.9	2297.5	1999.1	1475.8	1271.5	1498.8	1994.5	2288.3	2331.9	2263.1	2077.2
57.5°	2224.0	2136.8	1831.6	1317.4	1163.7	1342.7	1843.0	2127.6	2157.5	2070.3	1900.4
60°	2047.3	1973.9	1661.7	1177.4	1058.1	1198.1	1657.1	1967.0	1985.3	1891.2	1728.3
62.5°	1870.6	1804.0	1491.9	1048.9	950.2	1062.7	1503.4	1797.1	1808.6	1719.1	1551.6
65°	1689.3	1627.3	1326.6	913.5	846.9	936.4	1338.1	1620.4	1631.9	1530.9	1379.4
67.5°	1501.1	1450.6	1149.9	810.2	748.2	817.1	1172.8	1441.4	1448.3	1349.6	1211.9
70°	1312.9	1269.2	993.8	697.7	651.8	700.0	1009.9	1244.0	1257.8	1152.2	1042.0
72.5°	1120.1	1085.6	842.3	580.7	539.4	580.7	851.5	1062.7	1071.9	984.6	876.8
75°	925.0	899.7	688.6	465.9	433.8	463.6	693.1	881.4	881.4	798.7	713.8
77.5°	736.8	718.4	527.9	358.1	335.1	353.5	530.2	697.7	693.1	628.9	562.3
80°	550.8	537.1	378.7	259.4	243.3	252.5	378.7	516.4	516.4	470.5	390.2
82.5°	394.8	378.7	250.2	169.8	160.7	165.3	245.6	360.3	367.2	332.8	263.9
85°	261.7	224.9	135.4	94.1	87.2	89.5	128.5	208.9	229.5	192.8	137.7
87.5°	114.8	75.7	34.4	13.8	6.9	9.2	27.5	66.6	87.2	57.4	18.4
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°	4278.2	4278.2	4278.2	4278.2	4278.2	4278.2
2.5°	4292.0	4255.3	4269.1	4278.2	4269.1	4310.4
5°	4287.4	4271.4	4269.1	4280.5	4262.2	4303.5
7.5°	4280.5	4271.4	4269.1	4273.7	4250.7	4289.7
10°	4264.5	4250.7	4255.3	4262.2	4232.3	4269.1
12.5°	4234.6	4220.9	4223.2	4246.1	4204.8	4236.9
15°	4184.1	4168.1	4184.1	4209.4	4172.7	4200.2
17.5°	4117.6	4092.3	4119.9	4158.9	4131.4	4156.6
20°	4032.7	3993.6	4023.5	4094.6	4069.4	4101.5
22.5°	3929.4	3881.2	3911.0	4014.3	4007.4	4041.8
25°	3812.3	3754.9	3796.3	3922.5	3936.3	3968.4
27.5°	3681.5	3617.2	3672.3	3821.5	3853.6	3890.4
30°	3539.2	3470.3	3534.6	3709.0	3757.2	3796.3
32.5°	3392.3	3316.6	3390.0	3582.8	3651.7	3702.2
35°	3238.5	3160.5	3243.1	3452.0	3534.6	3585.1
37.5°	3073.3	2997.5	3087.0	3314.3	3413.0	3463.5
40°	2903.4	2818.5	2919.5	3151.3	3282.1	3341.8
42.5°	2729.0	2623.4	2747.4	2997.5	3139.8	3199.5
45°	2533.9	2387.0	2554.6	2834.6	2983.8	3050.3
47.5°	2338.8	2191.9	2361.8	2660.1	2820.8	2880.5
50°	2150.6	2024.4	2159.8	2469.6	2655.5	2731.3
52.5°	1978.5	1875.2	1989.9	2283.7	2485.7	2561.4
55°	1817.8	1737.5	1831.6	2100.1	2306.7	2393.9
57.5°	1666.3	1615.8	1680.1	1925.7	2141.4	2224.0
60°	1524.0	1489.6	1535.5	1753.5	1946.3	2047.3
62.5°	1384.0	1365.6	1400.1	1572.2	1765.0	1870.6
65°	1248.6	1244.0	1262.4	1413.8	1574.5	1689.3
67.5°	1113.2	1110.9	1122.4	1246.3	1388.6	1501.1
70°	977.8	991.5	984.6	1065.0	1202.7	1312.9
72.5°	840.0	860.7	849.2	899.7	1032.8	1120.1
75°	686.3	713.8	690.9	748.2	830.9	925.0
77.5°	527.9	557.7	530.2	580.7	670.2	736.8
80°	378.7	406.2	383.3	422.3	500.4	550.8
82.5°	238.7	259.4	241.0	280.0	358.1	394.8
85°	105.6	117.1	121.6	151.5	220.3	261.7
87.5°	4.6	2.3	4.6	29.8	78.0	114.8
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)