

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: P520692

Luminaire Tested: **8WSLA-150-L935-UPL8-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: P520692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 8WSLA-150-L935-UPL8-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

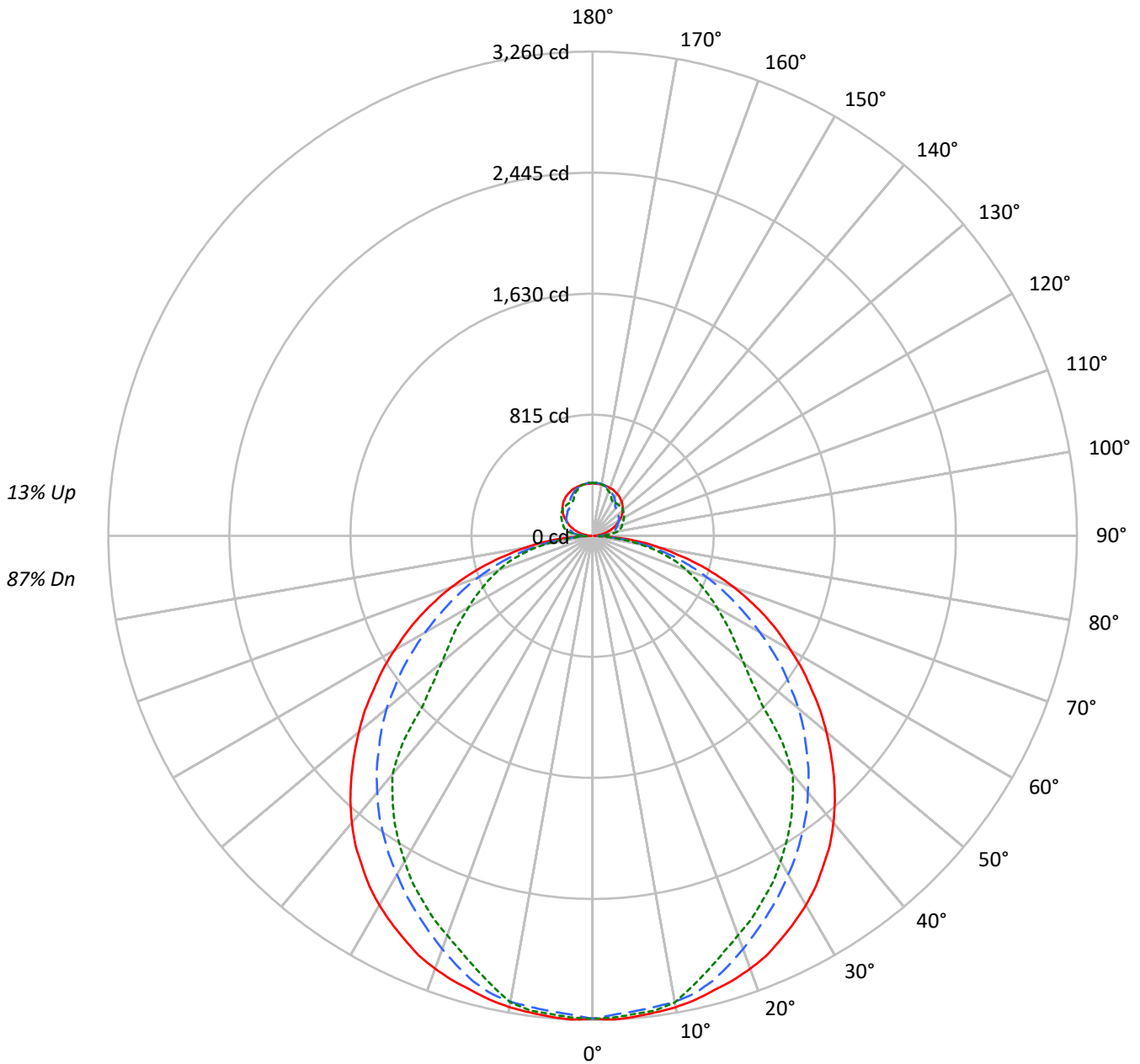
Lumens per Lamp: N/A
Luminaire Lumens: 10118.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 93.6
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									
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8749	8749	8749
5°	8782	8681	8732
10°	8807	8705	8717
15°	8823	8653	8419
20°	8882	8480	8198
25°	8903	8320	8042
30°	8925	8184	7864
35°	8898	8068	7653
40°	8857	7921	7362
45°	8741	7744	6142
50°	8597	7579	5542
55°	8427	7330	5333
60°	8283	6999	5187
65°	8161	6702	5183
70°	7950	6441	5263
75°	7588	6128	5302
80°	7104	5509	4930
85°	6499	3900	3322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.8	3.0
10°-20°	875.0	8.6
20°-30°	1307.5	12.9
30°-40°	1560.7	15.4
40°-50°	1560.9	15.4
50°-60°	1350.9	13.4
60°-70°	1036.9	10.2
70°-80°	635.3	6.3
80°-90°	178.9	1.8
90°-100°	101.1	1.0
100°-110°	160.5	1.6
110°-120°	187.6	1.9
120°-130°	202.5	2.0
130°-140°	199.6	2.0
140°-150°	176.5	1.7
150°-160°	145.3	1.4
160°-170°	97.2	1.0
170°-180°	33.9	0.3
0°-30°	2490.3	24.6
0°-40°	4051.0	40.0
0°-60°	6962.8	68.8
0°-90°	8813.9	87.1
90°-120°	449.1	4.4
90°-150°	1027.8	10.2
90°-180°	1304.0	12.9
0°-180°	10118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3251	3251	3251	3251	3251	
5°	3251	3242	3214	3237	3232	309
15°	3167	3162	3106	3050	3022	896
25°	2998	2961	2802	2727	2708	1383
35°	2708	2638	2456	2367	2330	1696
45°	2297	2231	2035	1852	1614	1771
55°	1796	1754	1562	1249	1137	1610
65°	1282	1235	1052	847	814	1266
75°	730	692	589	510	510	770
85°	210	173	126	108	108	220
90°	9	33	52	66	70	15
95°	37	80	108	112	112	37
105°	108	112	159	187	196	113
115°	178	150	187	215	229	174
125°	239	192	215	248	257	213
135°	285	257	239	262	276	220
145°	318	304	267	262	271	198
155°	337	332	313	299	295	155
165°	346	351	342	342	342	98
175°	351	356	356	360	360	33
180°	356	356	356	356	356	



TEST NUMBER: P520692

CATALOG NUMBER: 8WSLA-150-L935-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3251.2	3251.2	3251.2	3251.2	3251.2
2.5°	3260.5	3251.2	3227.8	3251.2	3246.5
5°	3251.2	3241.8	3213.7	3237.1	3232.4
7.5°	3237.1	3227.8	3199.7	3227.8	3223.1
10°	3223.1	3213.7	3185.7	3204.4	3190.3
12.5°	3199.7	3190.3	3157.6	3134.2	3106.1
15°	3166.9	3162.3	3106.1	3050.0	3021.9
17.5°	3138.9	3124.8	3036.0	2970.5	2937.7
20°	3101.5	3078.1	2961.1	2886.3	2862.9
22.5°	3059.4	3021.9	2881.6	2811.4	2792.7
25°	2998.5	2961.1	2802.1	2727.2	2708.5
27.5°	2937.7	2891.0	2722.5	2647.7	2629.0
30°	2872.2	2806.7	2633.7	2563.5	2530.8
32.5°	2797.4	2731.9	2549.5	2469.9	2432.5
35°	2708.5	2638.3	2455.9	2367.0	2329.6
37.5°	2624.3	2549.5	2362.3	2264.1	2212.7
40°	2521.4	2446.6	2254.8	2147.2	2095.7
42.5°	2413.8	2343.6	2151.8	2020.9	1894.6
45°	2296.9	2231.4	2034.9	1852.5	1613.9
47.5°	2175.2	2119.1	1927.3	1679.4	1450.2
50°	2053.6	1997.5	1810.4	1515.6	1323.9
52.5°	1932.0	1885.2	1679.4	1380.0	1220.9
55°	1796.3	1754.2	1562.4	1249.0	1136.7
57.5°	1674.7	1632.6	1426.8	1141.4	1047.9
60°	1539.0	1501.6	1300.5	1033.8	963.7
62.5°	1412.7	1370.6	1174.2	940.3	888.8
65°	1281.7	1235.0	1052.5	846.7	814.0
67.5°	1146.1	1099.3	935.6	762.5	743.8
70°	1010.4	973.0	818.6	678.3	668.9
72.5°	870.1	828.0	701.7	598.8	598.8
75°	729.8	692.3	589.4	509.9	509.9
77.5°	584.7	566.0	472.5	416.3	421.0
80°	458.4	435.0	355.5	318.1	318.1
82.5°	336.8	308.7	238.6	210.5	219.9
85°	210.5	173.1	126.3	107.6	107.6
87.5°	65.5	51.5	37.4	42.1	42.1
90°	9.4	32.7	51.5	65.5	70.2
92.5°	23.4	60.8	74.8	88.9	93.6
95°	37.4	79.5	107.6	112.3	112.3
97.5°	51.5	88.9	131.0	149.7	149.7
100°	70.2	93.6	140.3	168.4	173.1
102.5°	88.9	102.9	149.7	177.8	187.1
105°	107.6	112.3	159.0	187.1	196.5



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CATALOG NUMBER: 8WSLA-150-L935-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	159.0	140.3	177.8	210.5	219.9
115°	177.8	149.7	187.1	215.2	229.2
117.5°	191.8	163.7	196.5	224.5	233.9
120°	205.8	173.1	201.2	233.9	243.3
122.5°	224.5	182.4	210.5	238.6	252.6
125°	238.6	191.8	215.2	247.9	257.3
127.5°	252.6	210.5	219.9	252.6	262.0
130°	262.0	229.2	224.5	257.3	266.6
132.5°	276.0	243.3	229.2	262.0	271.3
135°	285.4	257.3	238.6	262.0	276.0
137.5°	294.7	271.3	238.6	262.0	271.3
140°	304.1	285.4	243.3	262.0	271.3
142.5°	308.7	294.7	247.9	262.0	271.3
145°	318.1	304.1	266.6	262.0	271.3
147.5°	322.8	313.4	280.7	262.0	271.3
150°	327.5	322.8	294.7	266.6	266.6
152.5°	332.1	327.5	304.1	285.4	276.0
155°	336.8	332.1	313.4	299.4	294.7
157.5°	341.5	341.5	322.8	313.4	308.7
160°	341.5	346.2	332.1	322.8	318.1
162.5°	346.2	350.8	336.8	332.1	327.5
165°	346.2	350.8	341.5	341.5	341.5
167.5°	350.8	355.5	350.8	346.2	346.2
170°	350.8	355.5	350.8	350.8	350.8
172.5°	350.8	355.5	355.5	355.5	355.5
175°	350.8	355.5	355.5	360.2	360.2
177.5°	350.8	355.5	355.5	355.5	355.5
180°	355.5	355.5	355.5	355.5	355.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	126.3	121.6	163.7	196.5	205.8
110°	140.3	131.0	173.1	201.2	210.5



(END OF REPORT)