

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: P520689

Luminaire Tested: **8WSLA-150-L930-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: P520689
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-L930-UPL8-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

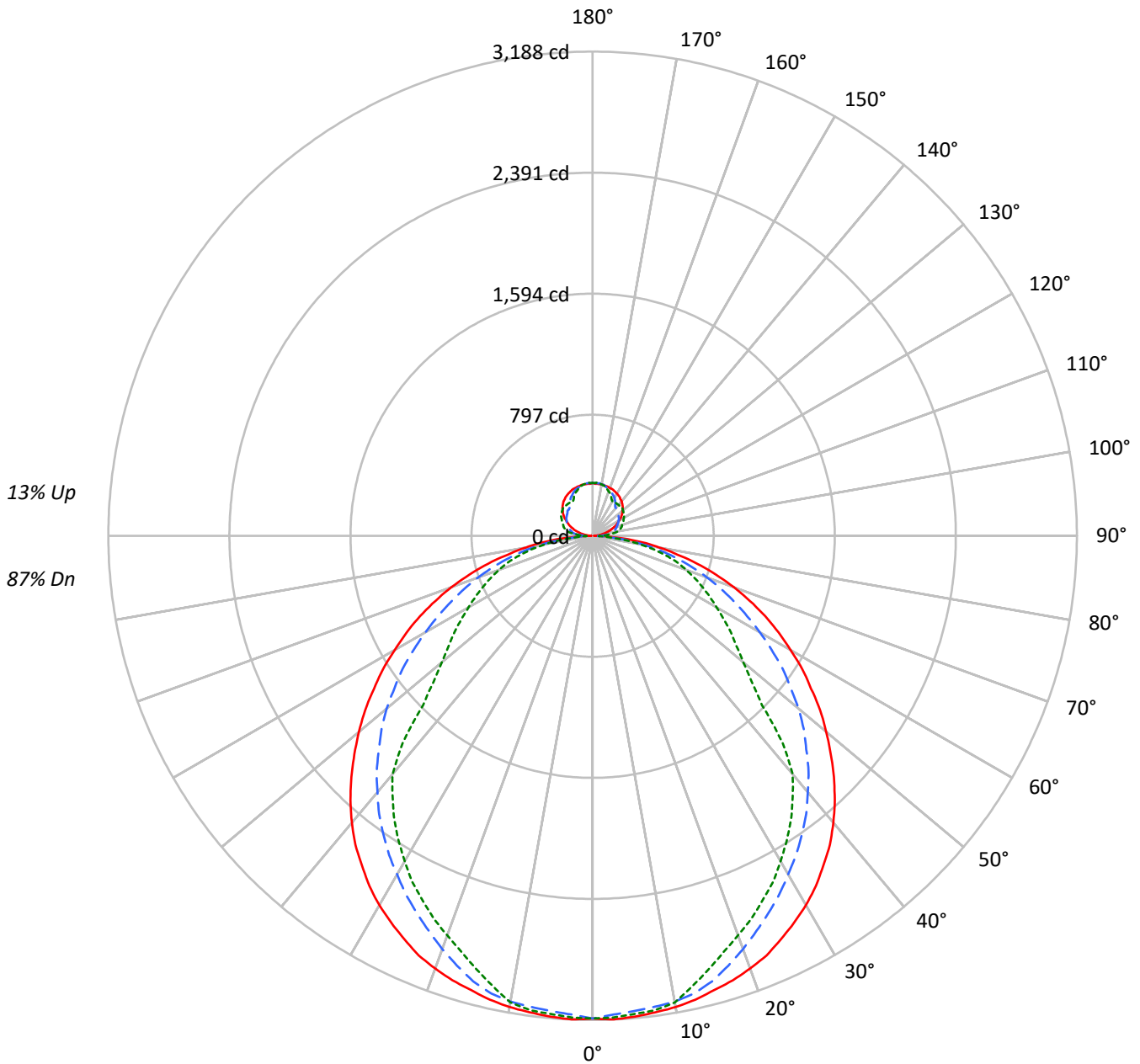
Lumens per Lamp: N/A
Luminaire Lumens: 9892.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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°	8553	8553	8553
5°	8586	8487	8537
10°	8610	8510	8523
15°	8626	8460	8231
20°	8683	8290	8015
25°	8704	8134	7862
30°	8726	8001	7688
35°	8699	7887	7482
40°	8659	7744	7197
45°	8546	7571	6005
50°	8405	7410	5418
55°	8239	7166	5214
60°	8098	6843	5070
65°	7979	6552	5067
70°	7773	6297	5146
75°	7418	5992	5183
80°	6946	5387	4819
85°	6354	3813	3248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.9	3.0
10°-20°	855.5	8.6
20°-30°	1278.3	12.9
30°-40°	1525.9	15.4
40°-50°	1526.0	15.4
50°-60°	1320.7	13.4
60°-70°	1013.7	10.2
70°-80°	621.1	6.3
80°-90°	174.9	1.8
90°-100°	98.8	1.0
100°-110°	156.9	1.6
110°-120°	183.4	1.9
120°-130°	198.0	2.0
130°-140°	195.1	2.0
140°-150°	172.6	1.7
150°-160°	142.0	1.4
160°-170°	95.1	1.0
170°-180°	33.1	0.3
0°-30°	2434.7	24.6
0°-40°	3960.5	40.0
0°-60°	6807.3	68.8
0°-90°	8617.0	87.1
90°-120°	439.1	4.4
90°-150°	1004.8	10.2
90°-180°	1275.0	12.9
0°-180°	9892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3178	3178	3178	3178	3178	
5°	3178	3169	3142	3165	3160	302
15°	3096	3092	3037	2982	2954	876
25°	2932	2895	2740	2666	2648	1352
35°	2648	2579	2401	2314	2278	1658
45°	2246	2182	1989	1811	1578	1732
55°	1756	1715	1528	1221	1111	1574
65°	1253	1207	1029	828	796	1238
75°	714	677	576	498	498	753
85°	206	169	124	105	105	215
90°	9	32	50	64	69	14
95°	37	78	105	110	110	36
105°	105	110	156	183	192	110
115°	174	146	183	210	224	170
125°	233	188	210	242	252	208
135°	279	252	233	256	270	215
145°	311	297	261	256	265	194
155°	329	325	306	293	288	152
165°	338	343	334	334	334	96
175°	343	348	348	352	352	33
180°	348	348	348	348	348	



TEST NUMBER: P520689

CATALOG NUMBER: 8WSLA-150-L930-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3178.5	3178.5	3178.5	3178.5	3178.5
2.5°	3187.7	3178.5	3155.7	3178.5	3174.0
5°	3178.5	3169.4	3141.9	3164.8	3160.2
7.5°	3164.8	3155.7	3128.2	3155.7	3151.1
10°	3151.1	3141.9	3114.5	3132.8	3119.1
12.5°	3128.2	3119.1	3087.1	3064.2	3036.8
15°	3096.2	3091.6	3036.8	2981.9	2954.4
17.5°	3068.8	3055.0	2968.2	2904.1	2872.1
20°	3032.2	3009.3	2895.0	2821.8	2798.9
22.5°	2991.0	2954.4	2817.2	2748.6	2730.3
25°	2931.6	2895.0	2739.5	2666.3	2648.0
27.5°	2872.1	2826.4	2661.7	2588.6	2570.3
30°	2808.1	2744.1	2574.8	2506.2	2474.2
32.5°	2734.9	2670.9	2492.5	2414.8	2378.2
35°	2648.0	2579.4	2401.0	2314.2	2277.6
37.5°	2565.7	2492.5	2309.6	2213.5	2163.2
40°	2465.1	2391.9	2204.4	2099.2	2048.9
42.5°	2359.9	2291.3	2103.8	1975.7	1852.2
45°	2245.6	2181.5	1989.4	1811.1	1577.8
47.5°	2126.6	2071.8	1884.3	1641.9	1417.8
50°	2007.7	1952.9	1769.9	1481.8	1294.3
52.5°	1888.8	1843.1	1641.9	1349.2	1193.7
55°	1756.2	1715.0	1527.5	1221.1	1111.3
57.5°	1637.3	1596.1	1394.9	1115.9	1024.4
60°	1504.7	1468.1	1271.4	1010.7	942.1
62.5°	1381.2	1340.0	1147.9	919.3	869.0
65°	1253.1	1207.4	1029.0	827.8	795.8
67.5°	1120.5	1074.8	914.7	745.5	727.2
70°	987.9	951.3	800.3	663.1	654.0
72.5°	850.7	809.5	686.0	585.4	585.4
75°	713.5	676.9	576.3	498.5	498.5
77.5°	571.7	553.4	461.9	407.0	411.6
80°	448.2	425.3	347.6	311.0	311.0
82.5°	329.3	301.8	233.2	205.8	215.0
85°	205.8	169.2	123.5	105.2	105.2
87.5°	64.0	50.3	36.6	41.2	41.2
90°	9.1	32.0	50.3	64.0	68.6
92.5°	22.9	59.5	73.2	86.9	91.5
95°	36.6	77.7	105.2	109.8	109.8
97.5°	50.3	86.9	128.1	146.3	146.3
100°	68.6	91.5	137.2	164.6	169.2
102.5°	86.9	100.6	146.3	173.8	182.9
105°	105.2	109.8	155.5	182.9	192.1



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CATALOG NUMBER: 8WSLA-150-L930-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	155.5	137.2	173.8	205.8	215.0
115°	173.8	146.3	182.9	210.4	224.1
117.5°	187.5	160.1	192.1	219.5	228.7
120°	201.2	169.2	196.7	228.7	237.8
122.5°	219.5	178.4	205.8	233.2	247.0
125°	233.2	187.5	210.4	242.4	251.5
127.5°	247.0	205.8	215.0	247.0	256.1
130°	256.1	224.1	219.5	251.5	260.7
132.5°	269.8	237.8	224.1	256.1	265.3
135°	279.0	251.5	233.2	256.1	269.8
137.5°	288.1	265.3	233.2	256.1	265.3
140°	297.3	279.0	237.8	256.1	265.3
142.5°	301.8	288.1	242.4	256.1	265.3
145°	311.0	297.3	260.7	256.1	265.3
147.5°	315.6	306.4	274.4	256.1	265.3
150°	320.1	315.6	288.1	260.7	260.7
152.5°	324.7	320.1	297.3	279.0	269.8
155°	329.3	324.7	306.4	292.7	288.1
157.5°	333.9	333.9	315.6	306.4	301.8
160°	333.9	338.4	324.7	315.6	311.0
162.5°	338.4	343.0	329.3	324.7	320.1
165°	338.4	343.0	333.9	333.9	333.9
167.5°	343.0	347.6	343.0	338.4	338.4
170°	343.0	347.6	343.0	343.0	343.0
172.5°	343.0	347.6	347.6	347.6	347.6
175°	343.0	347.6	347.6	352.2	352.2
177.5°	343.0	347.6	347.6	347.6	347.6
180°	347.6	347.6	347.6	347.6	347.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	123.5	118.9	160.1	192.1	201.2
110°	137.2	128.1	169.2	196.7	205.8



(END OF REPORT)