

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: P520694

Luminaire Tested: **8WSLA-150-L940-UPL15-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: P520694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 8WSLA-150-L940-UPL15-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

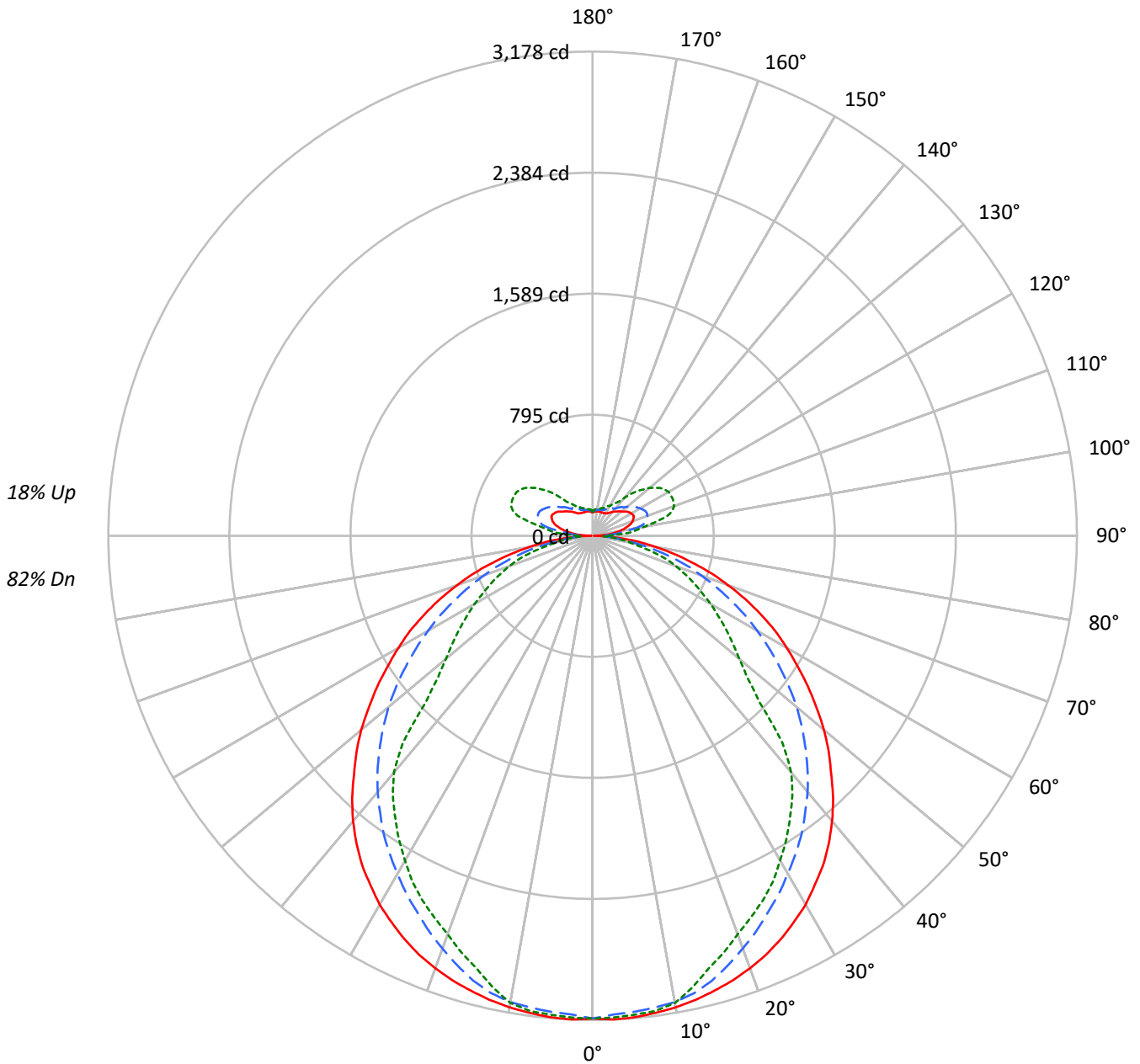
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10261.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 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 (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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82																			
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	69																			
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	58																			
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49																			
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	42																			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36																			
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	32																			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28																			
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	25																			
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8526	8526	8526
5°	8567	8472	8524
10°	8587	8491	8508
15°	8612	8424	8191
20°	8650	8254	7969
25°	8673	8091	7842
30°	8687	7958	7648
35°	8666	7854	7421
40°	8590	7710	7123
45°	8426	7521	5906
50°	8300	7318	5260
55°	8095	7025	5005
60°	7921	6710	4808
65°	7734	6343	4665
70°	7433	5941	4576
75°	7016	5446	4210
80°	6423	4581	3735
85°	5755	3968	3770



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.3	2.9
10°-20°	853.0	8.3
20°-30°	1273.0	12.4
30°-40°	1516.8	14.8
40°-50°	1508.7	14.7
50°-60°	1293.0	12.6
60°-70°	973.8	9.5
70°-80°	564.0	5.5
80°-90°	169.5	1.7
90°-100°	182.0	1.8
100°-110°	373.7	3.6
110°-120°	395.1	3.9
120°-130°	329.6	3.2
130°-140°	230.3	2.2
140°-150°	143.3	1.4
150°-160°	88.8	0.9
160°-170°	50.0	0.5
170°-180°	16.1	0.2
0°-30°	2426.2	23.6
0°-40°	3943.0	38.4
0°-60°	6744.7	65.7
0°-90°	8452.0	82.4
90°-120°	950.8	9.3
90°-150°	1654.0	16.1
90°-180°	1809.0	17.6
0°-180°	10261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3168	3168	3168	3168	3168	
5°	3172	3162	3136	3159	3156	302
15°	3091	3088	3024	2972	2940	874
25°	2921	2879	2725	2657	2641	1347
35°	2638	2567	2391	2298	2259	1648
45°	2214	2159	1976	1780	1552	1712
55°	1726	1700	1497	1189	1067	1543
65°	1215	1186	996	774	733	1201
75°	675	652	524	418	405	715
85°	186	164	128	122	122	199
90°	10	45	77	96	103	19
95°	103	138	158	231	251	98
105°	241	251	360	482	511	250
115°	299	254	382	527	578	291
125°	276	244	331	485	546	245
135°	225	244	267	360	414	176
145°	183	212	231	247	264	116
155°	167	177	190	206	209	77
165°	164	170	177	183	183	46
175°	161	164	167	170	174	15
180°	158	158	158	158	158	



TEST NUMBER: P520694

CATALOG NUMBER: 8WSLA-150-L940-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3168.3	3168.3	3168.3	3168.3	3168.3
2.5°	3178.0	3171.5	3145.8	3171.5	3165.1
5°	3171.5	3161.9	3136.2	3158.7	3155.5
7.5°	3158.7	3152.2	3123.3	3149.0	3145.8
10°	3142.6	3133.0	3107.3	3126.5	3113.7
12.5°	3120.1	3113.7	3075.1	3059.1	3033.4
15°	3091.2	3088.0	3023.7	2972.3	2940.2
17.5°	3059.1	3046.2	2956.2	2895.2	2866.3
20°	3020.5	3001.2	2882.3	2811.6	2782.7
22.5°	2975.5	2946.6	2808.4	2740.9	2712.0
25°	2920.9	2879.1	2724.9	2657.4	2641.3
27.5°	2859.8	2811.6	2647.8	2580.3	2561.0
30°	2795.6	2734.5	2561.0	2496.7	2461.4
32.5°	2715.2	2657.4	2477.5	2403.5	2365.0
35°	2638.1	2567.4	2390.7	2297.5	2258.9
37.5°	2544.9	2474.2	2291.1	2197.9	2152.9
40°	2445.3	2374.6	2194.7	2085.4	2027.6
42.5°	2336.1	2271.8	2088.6	1956.9	1844.4
45°	2214.0	2159.3	1976.2	1780.2	1552.0
47.5°	2101.5	2050.1	1863.7	1609.9	1375.3
50°	1982.6	1934.4	1748.0	1449.2	1256.4
52.5°	1850.9	1815.5	1622.7	1311.0	1156.8
55°	1725.5	1699.8	1497.4	1188.9	1066.8
57.5°	1593.8	1568.1	1372.1	1073.2	976.8
60°	1471.7	1446.0	1246.8	970.4	893.3
62.5°	1349.6	1314.2	1124.7	870.8	806.5
65°	1214.6	1185.7	996.1	774.4	732.6
67.5°	1079.7	1054.0	877.2	684.4	655.5
70°	944.7	922.2	755.1	597.7	581.6
72.5°	813.0	784.0	645.9	510.9	504.5
75°	674.8	652.3	523.8	417.7	404.9
77.5°	543.0	523.8	411.3	318.1	308.5
80°	414.5	395.2	295.6	231.4	241.0
82.5°	305.3	279.6	199.2	179.9	189.6
85°	186.4	163.9	128.5	122.1	122.1
87.5°	64.3	61.1	57.8	67.5	70.7
90°	9.6	45.0	77.1	96.4	102.8
92.5°	54.6	80.3	106.0	125.3	131.7
95°	102.8	138.2	157.5	231.4	250.6
97.5°	141.4	183.2	205.7	273.1	292.4
100°	179.9	218.5	289.2	324.5	347.0
102.5°	212.1	241.0	340.6	411.3	424.2
105°	241.0	250.6	359.9	482.0	510.9



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CATALOG NUMBER: 8WSLA-150-L940-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	289.2	257.1	385.6	523.8	575.2
115°	298.8	253.9	382.4	527.0	578.4
117.5°	298.8	253.9	372.7	527.0	578.4
120°	292.4	257.1	359.9	520.6	575.2
122.5°	286.0	250.6	347.0	507.7	562.3
125°	276.3	244.2	331.0	485.2	546.3
127.5°	260.3	250.6	314.9	456.3	517.3
130°	247.4	253.9	295.6	427.4	488.4
132.5°	237.8	247.4	276.3	395.2	449.9
135°	224.9	244.2	266.7	359.9	414.5
137.5°	215.3	234.6	250.6	327.8	372.7
140°	205.7	228.1	234.6	286.0	324.5
142.5°	192.8	218.5	221.7	266.7	282.8
145°	183.2	212.1	231.4	247.4	263.5
147.5°	173.5	199.2	224.9	228.1	244.2
150°	170.3	186.4	215.3	218.5	224.9
152.5°	167.1	179.9	199.2	218.5	221.7
155°	167.1	176.7	189.6	205.7	208.9
157.5°	163.9	176.7	183.2	196.0	199.2
160°	163.9	173.5	179.9	189.6	192.8
162.5°	163.9	173.5	176.7	186.4	189.6
165°	163.9	170.3	176.7	183.2	183.2
167.5°	163.9	170.3	173.5	179.9	179.9
170°	163.9	167.1	173.5	176.7	176.7
172.5°	160.7	167.1	170.3	176.7	176.7
175°	160.7	163.9	167.1	170.3	173.5
177.5°	154.2	163.9	167.1	170.3	167.1
180°	157.5	157.5	157.5	157.5	157.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	263.5	253.9	372.7	507.7	549.5
110°	279.6	257.1	382.4	517.3	568.8



(END OF REPORT)