

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: P520760

Luminaire Tested: **8WSLA-50-L930-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: P520760
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-50-L930-UPL15-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

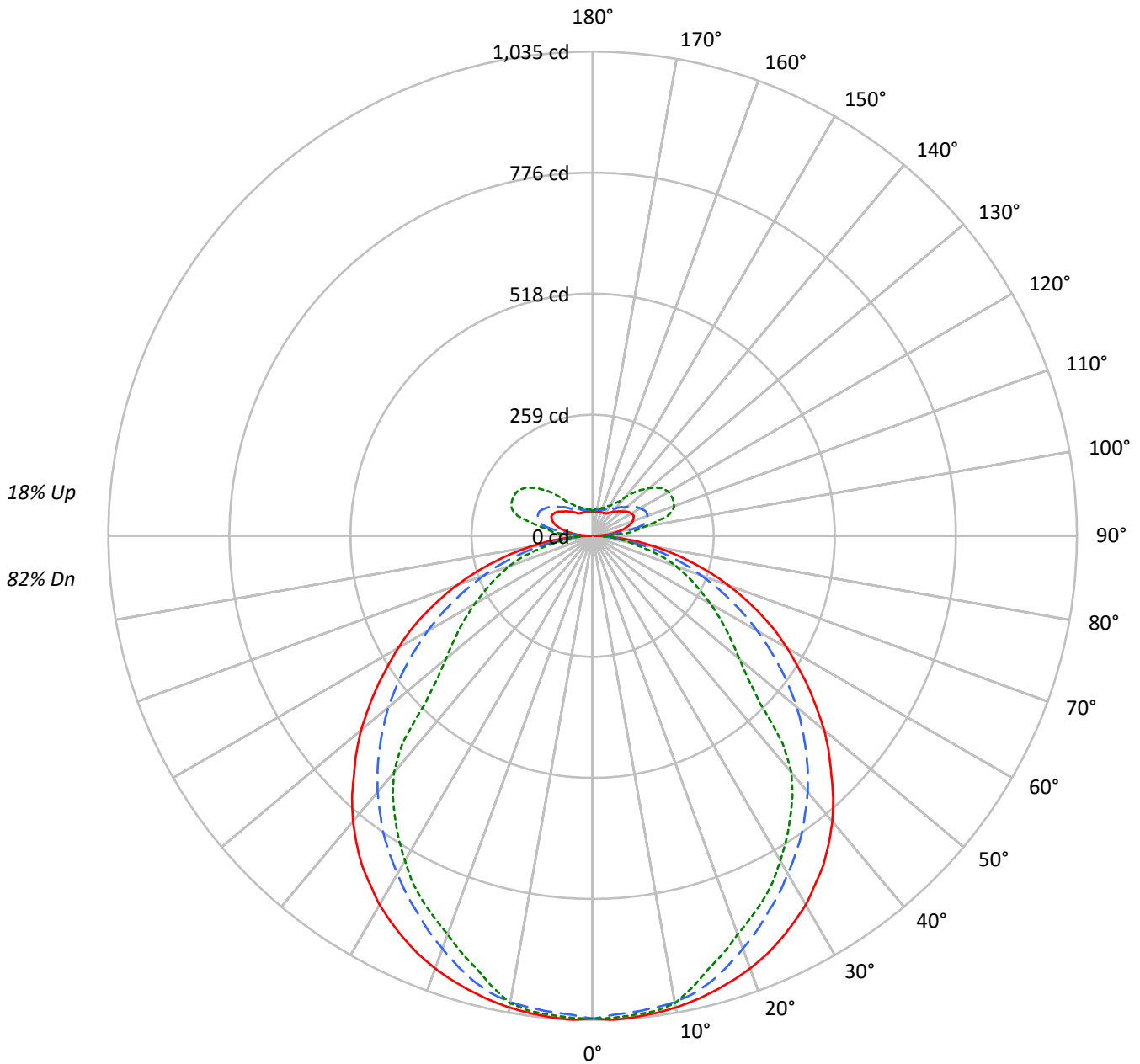
Lumens per Lamp: N/A
Luminaire Lumens: 3343.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 30.5
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°	2778	2778	2778
5°	2791	2760	2777
10°	2798	2766	2772
15°	2806	2744	2669
20°	2818	2689	2596
25°	2825	2636	2555
30°	2830	2593	2492
35°	2824	2559	2418
40°	2799	2512	2321
45°	2745	2450	1924
50°	2704	2384	1714
55°	2638	2289	1631
60°	2581	2186	1566
65°	2520	2066	1520
70°	2422	1936	1491
75°	2285	1774	1371
80°	2092	1492	1216
85°	1874	1294	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	2.9
10°-20°	277.9	8.3
20°-30°	414.7	12.4
30°-40°	494.2	14.8
40°-50°	491.5	14.7
50°-60°	421.3	12.6
60°-70°	317.3	9.5
70°-80°	183.7	5.5
80°-90°	55.2	1.7
90°-100°	59.3	1.8
100°-110°	121.7	3.6
110°-120°	128.7	3.9
120°-130°	107.4	3.2
130°-140°	75.0	2.2
140°-150°	46.7	1.4
150°-160°	28.9	0.9
160°-170°	16.3	0.5
170°-180°	5.3	0.2
0°-30°	790.5	23.6
0°-40°	1284.6	38.4
0°-60°	2197.4	65.7
0°-90°	2753.6	82.4
90°-120°	309.8	9.3
90°-150°	538.9	16.1
90°-180°	589.0	17.6
0°-180°	3343.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	1033	1030	1022	1029	1028	98
15°	1007	1006	985	968	958	285
25°	952	938	888	866	860	439
35°	860	836	779	748	736	537
45°	721	704	644	580	506	558
55°	562	554	488	387	348	503
65°	396	386	324	252	239	391
75°	220	212	171	136	132	233
85°	61	53	42	40	40	65
90°	3	15	25	31	34	6
95°	34	45	51	75	82	32
105°	78	82	117	157	166	81
115°	97	83	125	172	188	95
125°	90	80	108	158	178	80
135°	73	80	87	117	135	57
145°	60	69	75	81	86	38
155°	54	58	62	67	68	25
165°	53	56	58	60	60	15
175°	52	53	54	56	56	5
180°	51	51	51	51	51	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1032.2	1032.2	1032.2	1032.2	1032.2
2.5°	1035.4	1033.3	1024.9	1033.3	1031.2
5°	1033.3	1030.1	1021.8	1029.1	1028.0
7.5°	1029.1	1027.0	1017.6	1025.9	1024.9
10°	1023.9	1020.7	1012.3	1018.6	1014.4
12.5°	1016.5	1014.4	1001.9	996.6	988.3
15°	1007.1	1006.1	985.1	968.4	957.9
17.5°	996.6	992.4	963.1	943.2	933.8
20°	984.1	977.8	939.1	916.0	906.6
22.5°	969.4	960.0	915.0	893.0	883.6
25°	951.6	938.0	887.8	865.8	860.5
27.5°	931.7	916.0	862.6	840.6	834.4
30°	910.8	890.9	834.4	813.4	801.9
32.5°	884.6	865.8	807.1	783.1	770.5
35°	859.5	836.5	778.9	748.5	736.0
37.5°	829.1	806.1	746.4	716.1	701.4
40°	796.7	773.6	715.0	679.4	660.6
42.5°	761.1	740.1	680.5	637.6	600.9
45°	721.3	703.5	643.8	580.0	505.6
47.5°	684.7	667.9	607.2	524.5	448.1
50°	645.9	630.2	569.5	472.1	409.3
52.5°	603.0	591.5	528.7	427.1	376.9
55°	562.2	553.8	487.8	387.3	347.6
57.5°	519.3	510.9	447.0	349.7	318.3
60°	479.5	471.1	406.2	316.2	291.0
62.5°	439.7	428.2	366.4	283.7	262.8
65°	395.7	386.3	324.5	252.3	238.7
67.5°	351.8	343.4	285.8	223.0	213.6
70°	307.8	300.5	246.0	194.7	189.5
72.5°	264.9	255.4	210.4	166.5	164.4
75°	219.8	212.5	170.6	136.1	131.9
77.5°	176.9	170.6	134.0	103.6	100.5
80°	135.0	128.8	96.3	75.4	78.5
82.5°	99.5	91.1	64.9	58.6	61.8
85°	60.7	53.4	41.9	39.8	39.8
87.5°	20.9	19.9	18.8	22.0	23.0
90°	3.1	14.7	25.1	31.4	33.5
92.5°	17.8	26.2	34.5	40.8	42.9
95°	33.5	45.0	51.3	75.4	81.7
97.5°	46.1	59.7	67.0	89.0	95.3
100°	58.6	71.2	94.2	105.7	113.1
102.5°	69.1	78.5	111.0	134.0	138.2
105°	78.5	81.7	117.3	157.0	166.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.2	83.8	125.6	170.6	187.4
115°	97.4	82.7	124.6	171.7	188.4
117.5°	97.4	82.7	121.4	171.7	188.4
120°	95.3	83.8	117.3	169.6	187.4
122.5°	93.2	81.7	113.1	165.4	183.2
125°	90.0	79.6	107.8	158.1	178.0
127.5°	84.8	81.7	102.6	148.7	168.5
130°	80.6	82.7	96.3	139.2	159.1
132.5°	77.5	80.6	90.0	128.8	146.6
135°	73.3	79.6	86.9	117.3	135.0
137.5°	70.1	76.4	81.7	106.8	121.4
140°	67.0	74.3	76.4	93.2	105.7
142.5°	62.8	71.2	72.2	86.9	92.1
145°	59.7	69.1	75.4	80.6	85.8
147.5°	56.5	64.9	73.3	74.3	79.6
150°	55.5	60.7	70.1	71.2	73.3
152.5°	54.4	58.6	64.9	71.2	72.2
155°	54.4	57.6	61.8	67.0	68.0
157.5°	53.4	57.6	59.7	63.9	64.9
160°	53.4	56.5	58.6	61.8	62.8
162.5°	53.4	56.5	57.6	60.7	61.8
165°	53.4	55.5	57.6	59.7	59.7
167.5°	53.4	55.5	56.5	58.6	58.6
170°	53.4	54.4	56.5	57.6	57.6
172.5°	52.3	54.4	55.5	57.6	57.6
175°	52.3	53.4	54.4	55.5	56.5
177.5°	50.3	53.4	54.4	55.5	54.4
180°	51.3	51.3	51.3	51.3	51.3



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	85.8	82.7	121.4	165.4	179.0
110°	91.1	83.8	124.6	168.5	185.3



(END OF REPORT)