

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: P520761

Luminaire Tested: **8WSLA-50-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: P520761
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-50-L930-UPL8-UNV-U
Description: 8 FOOT, 1000 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

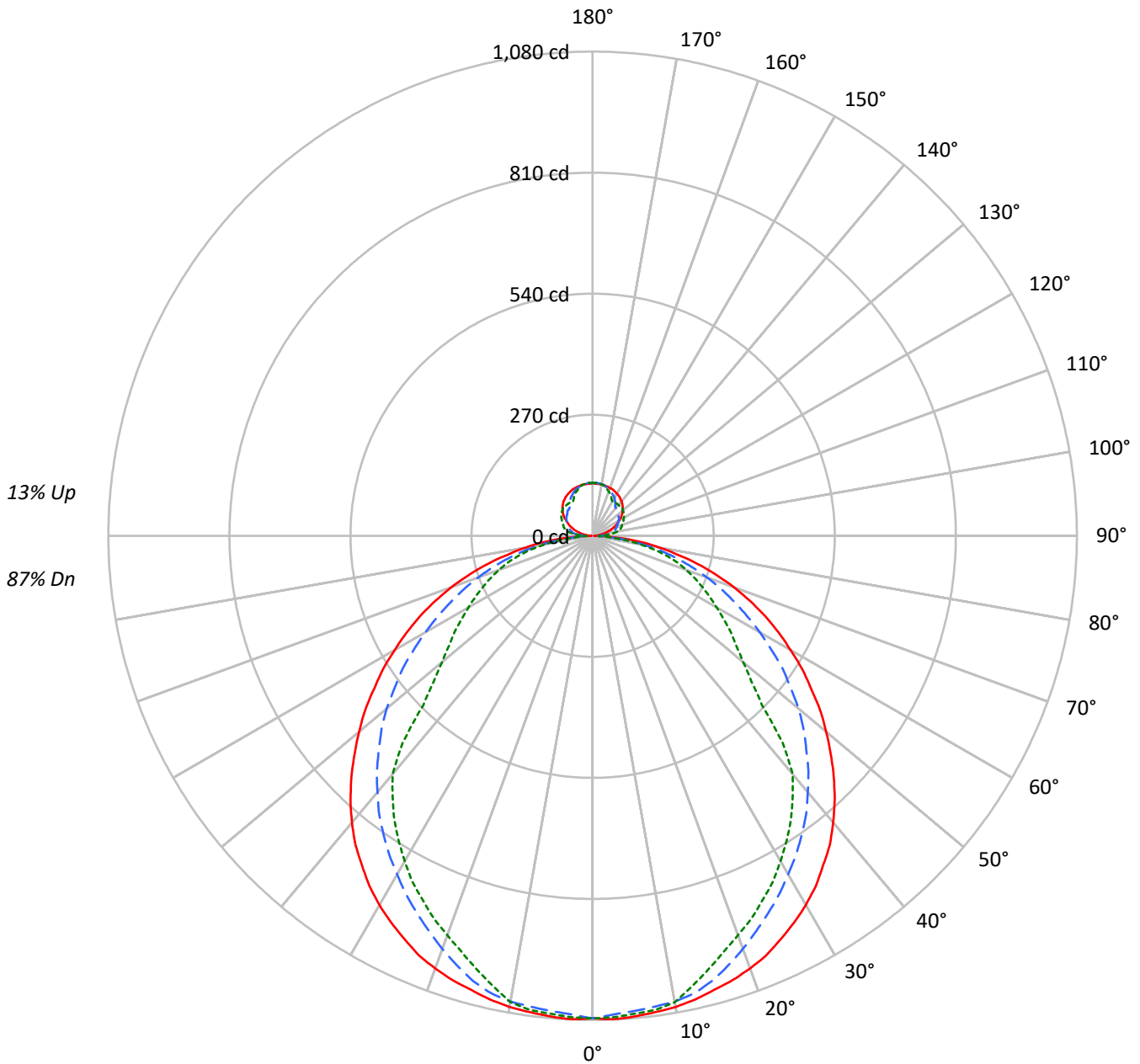
Lumens per Lamp: N/A
Luminaire Lumens: 3350.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	2897	2897	2897
5°	2908	2874	2891
10°	2916	2882	2886
15°	2921	2865	2787
20°	2941	2808	2714
25°	2948	2754	2663
30°	2955	2710	2604
35°	2946	2671	2534
40°	2933	2622	2438
45°	2894	2564	2033
50°	2846	2509	1835
55°	2790	2427	1766
60°	2743	2317	1717
65°	2702	2219	1716
70°	2632	2132	1743
75°	2512	2030	1755
80°	2352	1824	1632
85°	2152	1291	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	3.0
10°-20°	289.7	8.6
20°-30°	432.9	12.9
30°-40°	516.8	15.4
40°-50°	516.8	15.4
50°-60°	447.3	13.4
60°-70°	343.3	10.2
70°-80°	210.3	6.3
80°-90°	59.2	1.8
90°-100°	33.5	1.0
100°-110°	53.1	1.6
110°-120°	62.1	1.9
120°-130°	67.0	2.0
130°-140°	66.1	2.0
140°-150°	58.4	1.7
150°-160°	48.1	1.4
160°-170°	32.2	1.0
170°-180°	11.2	0.3
0°-30°	824.5	24.6
0°-40°	1341.3	40.0
0°-60°	2305.3	68.8
0°-90°	2918.2	87.1
90°-120°	148.7	4.4
90°-150°	340.3	10.2
90°-180°	432.0	12.9
0°-180°	3350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1076	1073	1064	1072	1070	102
15°	1049	1047	1028	1010	1000	297
25°	993	980	928	903	897	458
35°	897	874	813	784	771	562
45°	760	739	674	613	534	586
55°	595	581	517	414	376	533
65°	424	409	348	280	270	419
75°	242	229	195	169	169	255
85°	70	57	42	36	36	73
90°	3	11	17	22	23	5
95°	12	26	36	37	37	12
105°	36	37	53	62	65	37
115°	59	50	62	71	76	58
125°	79	64	71	82	85	70
135°	94	85	79	87	91	73
145°	105	101	88	87	90	66
155°	112	110	104	99	98	51
165°	115	116	113	113	113	33
175°	116	118	118	119	119	11
180°	118	118	118	118	118	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1079.5	1076.4	1068.7	1076.4	1074.9
5°	1076.4	1073.3	1064.0	1071.8	1070.2
7.5°	1071.8	1068.7	1059.4	1068.7	1067.1
10°	1067.1	1064.0	1054.8	1060.9	1056.3
12.5°	1059.4	1056.3	1045.5	1037.7	1028.4
15°	1048.6	1047.0	1028.4	1009.8	1000.5
17.5°	1039.3	1034.6	1005.2	983.5	972.7
20°	1026.9	1019.1	980.4	955.6	947.9
22.5°	1012.9	1000.5	954.1	930.8	924.6
25°	992.8	980.4	927.7	903.0	896.8
27.5°	972.7	957.2	901.4	876.6	870.4
30°	951.0	929.3	872.0	848.8	837.9
32.5°	926.2	904.5	844.1	817.8	805.4
35°	896.8	873.5	813.1	783.7	771.3
37.5°	868.9	844.1	782.2	749.6	732.6
40°	834.8	810.0	746.5	710.9	693.9
42.5°	799.2	776.0	712.5	669.1	627.3
45°	760.5	738.8	673.7	613.3	534.3
47.5°	720.2	701.6	638.1	556.0	480.1
50°	679.9	661.3	599.4	501.8	438.3
52.5°	639.7	624.2	556.0	456.9	404.2
55°	594.7	580.8	517.3	413.5	376.4
57.5°	554.5	540.5	472.4	377.9	346.9
60°	509.6	497.2	430.6	342.3	319.1
62.5°	467.7	453.8	388.8	311.3	294.3
65°	424.4	408.9	348.5	280.3	269.5
67.5°	379.5	364.0	309.8	252.5	246.3
70°	334.5	322.2	271.0	224.6	221.5
72.5°	288.1	274.1	232.3	198.2	198.2
75°	241.6	229.2	195.2	168.8	168.8
77.5°	193.6	187.4	156.4	137.8	139.4
80°	151.8	144.0	117.7	105.3	105.3
82.5°	111.5	102.2	79.0	69.7	72.8
85°	69.7	57.3	41.8	35.6	35.6
87.5°	21.7	17.0	12.4	13.9	13.9
90°	3.1	10.8	17.0	21.7	23.2
92.5°	7.7	20.1	24.8	29.4	31.0
95°	12.4	26.3	35.6	37.2	37.2
97.5°	17.0	29.4	43.4	49.6	49.6
100°	23.2	31.0	46.5	55.8	57.3
102.5°	29.4	34.1	49.6	58.9	62.0
105°	35.6	37.2	52.7	62.0	65.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	52.7	46.5	58.9	69.7	72.8
115°	58.9	49.6	62.0	71.2	75.9
117.5°	63.5	54.2	65.1	74.3	77.4
120°	68.1	57.3	66.6	77.4	80.5
122.5°	74.3	60.4	69.7	79.0	83.6
125°	79.0	63.5	71.2	82.1	85.2
127.5°	83.6	69.7	72.8	83.6	86.7
130°	86.7	75.9	74.3	85.2	88.3
132.5°	91.4	80.5	75.9	86.7	89.8
135°	94.5	85.2	79.0	86.7	91.4
137.5°	97.6	89.8	79.0	86.7	89.8
140°	100.7	94.5	80.5	86.7	89.8
142.5°	102.2	97.6	82.1	86.7	89.8
145°	105.3	100.7	88.3	86.7	89.8
147.5°	106.9	103.8	92.9	86.7	89.8
150°	108.4	106.9	97.6	88.3	88.3
152.5°	110.0	108.4	100.7	94.5	91.4
155°	111.5	110.0	103.8	99.1	97.6
157.5°	113.1	113.1	106.9	103.8	102.2
160°	113.1	114.6	110.0	106.9	105.3
162.5°	114.6	116.2	111.5	110.0	108.4
165°	114.6	116.2	113.1	113.1	113.1
167.5°	116.2	117.7	116.2	114.6	114.6
170°	116.2	117.7	116.2	116.2	116.2
172.5°	116.2	117.7	117.7	117.7	117.7
175°	116.2	117.7	117.7	119.3	119.3
177.5°	116.2	117.7	117.7	117.7	117.7
180°	117.7	117.7	117.7	117.7	117.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	41.8	40.3	54.2	65.1	68.1
110°	46.5	43.4	57.3	66.6	69.7



(END OF REPORT)