

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: P520737

Luminaire Tested: **8WSLA-200-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: P520737
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-200-L930-UPL8-UNV-U
Description: 8 FOOT, 4000 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

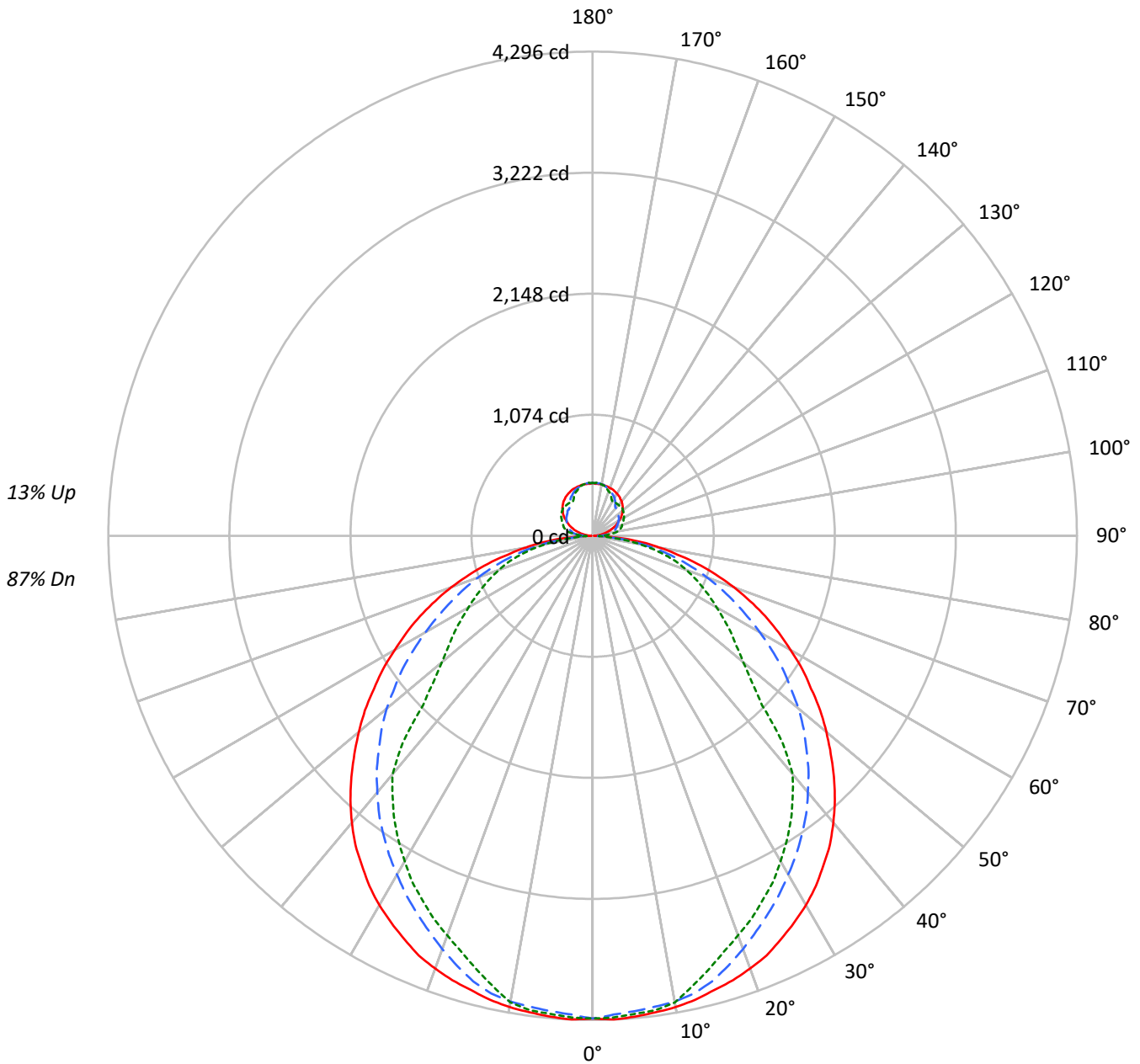
Lumens per Lamp: N/A
Luminaire Lumens: 13331.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 152.3
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°	11527	11527	11527
5°	11571	11438	11504
10°	11604	11469	11486
15°	11624	11401	11092
20°	11702	11172	10802
25°	11730	10962	10596
30°	11759	10782	10361
35°	11723	10630	10083
40°	11670	10436	9700
45°	11517	10203	8092
50°	11327	9985	7302
55°	11104	9658	7027
60°	10914	9221	6833
65°	10753	8830	6828
70°	10475	8486	6935
75°	9997	8074	6985
80°	9360	7259	6495
85°	8565	5138	4378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.5	3.0
10°-20°	1152.9	8.6
20°-30°	1722.7	12.9
30°-40°	2056.4	15.4
40°-50°	2056.6	15.4
50°-60°	1779.8	13.4
60°-70°	1366.1	10.2
70°-80°	837.1	6.3
80°-90°	235.7	1.8
90°-100°	133.2	1.0
100°-110°	211.4	1.6
110°-120°	247.2	1.9
120°-130°	266.8	2.0
130°-140°	262.9	2.0
140°-150°	232.6	1.7
150°-160°	191.4	1.4
160°-170°	128.1	1.0
170°-180°	44.6	0.3
0°-30°	3281.1	24.6
0°-40°	5337.5	40.0
0°-60°	9173.9	68.8
0°-90°	11612.7	87.1
90°-120°	591.8	4.4
90°-150°	1354.1	10.2
90°-180°	1718.0	12.9
0°-180°	13331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4284	4284	4284	4284	4284	
5°	4284	4271	4234	4265	4259	408
15°	4173	4166	4092	4018	3982	1180
25°	3951	3901	3692	3593	3569	1823
35°	3569	3476	3236	3119	3069	2235
45°	3026	2940	2681	2441	2126	2334
55°	2367	2311	2059	1646	1498	2122
65°	1689	1627	1387	1116	1072	1668
75°	962	912	777	672	672	1014
85°	277	228	166	142	142	290
90°	12	43	68	86	92	19
95°	49	105	142	148	148	49
105°	142	148	210	246	259	149
115°	234	197	246	284	302	229
125°	314	253	284	327	339	280
135°	376	339	314	345	364	290
145°	419	401	351	345	358	261
155°	444	438	413	394	388	205
165°	456	462	450	450	450	130
175°	462	468	468	475	475	44
180°	468	468	468	468	468	



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CATALOG NUMBER: 8WSLA-200-L930-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4283.6	4283.6	4283.6	4283.6	4283.6
2.5°	4295.9	4283.6	4252.7	4283.6	4277.4
5°	4283.6	4271.2	4234.3	4265.1	4258.9
7.5°	4265.1	4252.7	4215.8	4252.7	4246.6
10°	4246.6	4234.3	4197.3	4221.9	4203.4
12.5°	4215.8	4203.4	4160.3	4129.5	4092.5
15°	4172.6	4166.5	4092.5	4018.5	3981.6
17.5°	4135.6	4117.2	4000.0	3913.8	3870.6
20°	4086.3	4055.5	3901.4	3802.8	3772.0
22.5°	4030.9	3981.6	3796.7	3704.2	3679.6
25°	3950.7	3901.4	3691.9	3593.3	3568.6
27.5°	3870.6	3809.0	3587.1	3488.5	3463.8
30°	3784.3	3698.0	3470.0	3377.5	3334.4
32.5°	3685.7	3599.4	3359.1	3254.3	3205.0
35°	3568.6	3476.2	3235.8	3118.7	3069.4
37.5°	3457.7	3359.1	3112.5	2983.1	2915.3
40°	3322.1	3223.5	2970.8	2829.0	2761.2
42.5°	3180.3	3087.9	2835.2	2662.6	2496.2
45°	3026.2	2939.9	2681.1	2440.7	2126.4
47.5°	2866.0	2792.0	2539.3	2212.7	1910.7
50°	2705.7	2631.8	2385.2	1996.9	1744.2
52.5°	2545.5	2483.9	2212.7	1818.2	1608.6
55°	2366.7	2311.3	2058.6	1645.6	1497.7
57.5°	2206.5	2151.0	1879.8	1503.9	1380.6
60°	2027.8	1978.5	1713.4	1362.1	1269.7
62.5°	1861.3	1805.9	1547.0	1238.8	1171.0
65°	1688.8	1627.1	1386.8	1115.6	1072.4
67.5°	1510.0	1448.4	1232.7	1004.6	980.0
70°	1331.3	1282.0	1078.6	893.7	881.4
72.5°	1146.4	1090.9	924.5	788.9	788.9
75°	961.5	912.2	776.6	671.8	671.8
77.5°	770.4	745.8	622.5	548.5	554.7
80°	604.0	573.2	468.4	419.1	419.1
82.5°	443.8	406.8	314.3	277.4	289.7
85°	277.4	228.0	166.4	141.8	141.8
87.5°	86.3	67.8	49.3	55.5	55.5
90°	12.3	43.1	67.8	86.3	92.5
92.5°	30.8	80.1	98.6	117.1	123.3
95°	49.3	104.8	141.8	147.9	147.9
97.5°	67.8	117.1	172.6	197.2	197.2
100°	92.5	123.3	184.9	221.9	228.0
102.5°	117.1	135.6	197.2	234.2	246.5
105°	141.8	147.9	209.6	246.5	258.9



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CATALOG NUMBER: 8WSLA-200-L930-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	209.6	184.9	234.2	277.4	289.7
115°	234.2	197.2	246.5	283.5	302.0
117.5°	252.7	215.7	258.9	295.8	308.2
120°	271.2	228.0	265.0	308.2	320.5
122.5°	295.8	240.4	277.4	314.3	332.8
125°	314.3	252.7	283.5	326.7	339.0
127.5°	332.8	277.4	289.7	332.8	345.2
130°	345.2	302.0	295.8	339.0	351.3
132.5°	363.6	320.5	302.0	345.2	357.5
135°	376.0	339.0	314.3	345.2	363.6
137.5°	388.3	357.5	314.3	345.2	357.5
140°	400.6	376.0	320.5	345.2	357.5
142.5°	406.8	388.3	326.7	345.2	357.5
145°	419.1	400.6	351.3	345.2	357.5
147.5°	425.3	412.9	369.8	345.2	357.5
150°	431.4	425.3	388.3	351.3	351.3
152.5°	437.6	431.4	400.6	376.0	363.6
155°	443.8	437.6	412.9	394.5	388.3
157.5°	449.9	449.9	425.3	412.9	406.8
160°	449.9	456.1	437.6	425.3	419.1
162.5°	456.1	462.3	443.8	437.6	431.4
165°	456.1	462.3	449.9	449.9	449.9
167.5°	462.3	468.4	462.3	456.1	456.1
170°	462.3	468.4	462.3	462.3	462.3
172.5°	462.3	468.4	468.4	468.4	468.4
175°	462.3	468.4	468.4	474.6	474.6
177.5°	462.3	468.4	468.4	468.4	468.4
180°	468.4	468.4	468.4	468.4	468.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	166.4	160.2	215.7	258.9	271.2
110°	184.9	172.6	228.0	265.0	277.4



(END OF REPORT)