

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: P520713

Luminaire Tested: **8WSLA-175-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: P520713  
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-175-L930-UPL8-UNV-U  
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

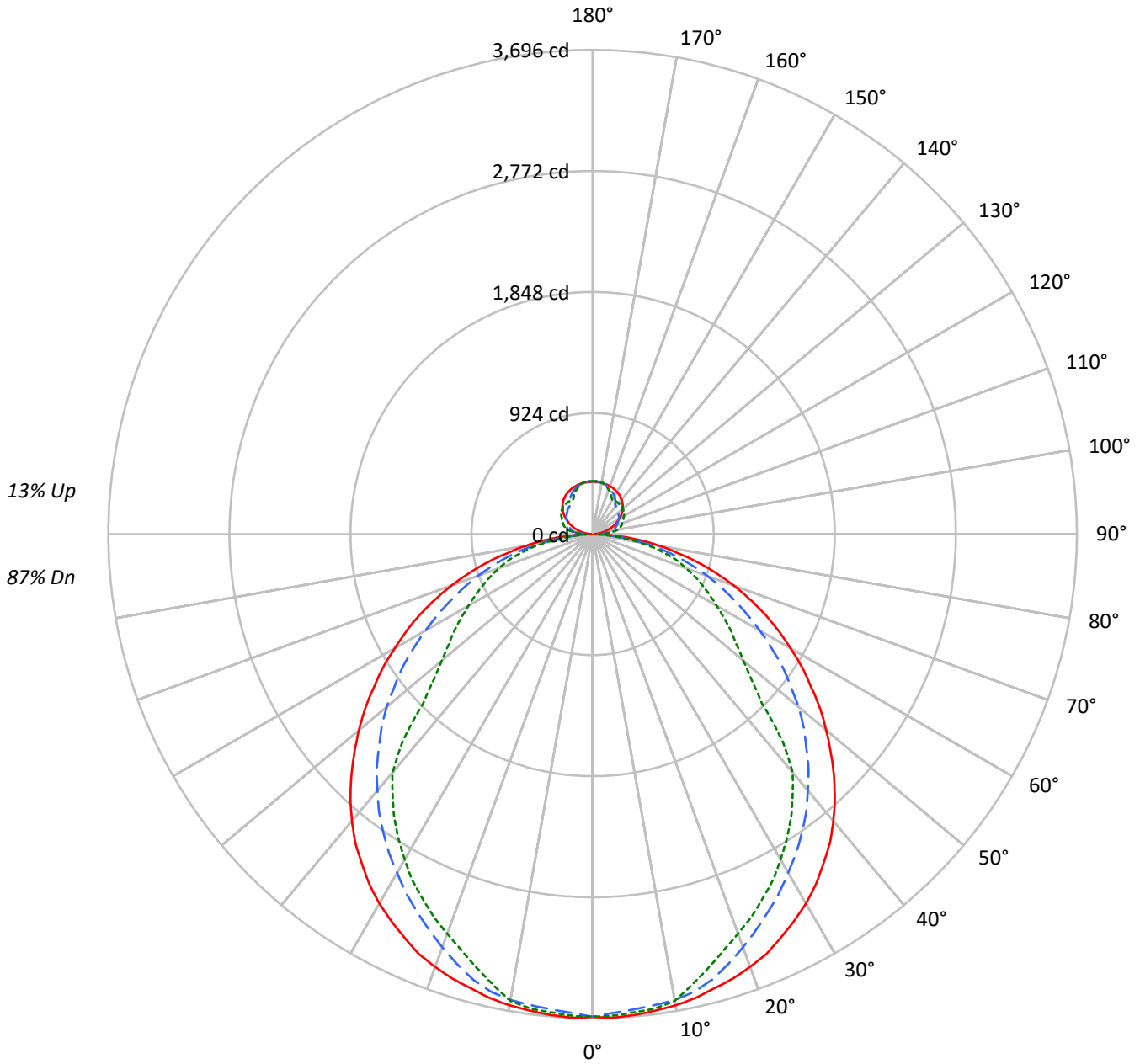
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11468.0 lumens  
Efficiency: N/A  
Efficacy: 96.4 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): 119  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P520713  
CATALOG NUMBER: 8WSLA-175-L930-UPL8-UNV-U

### Luminous Intensity Polar Plot





TEST NUMBER: P520713

CATALOG NUMBER: 8WSLA-175-L930-UPL8-UNV-U

**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°	9916	9916	9916
5°	9954	9839	9897
10°	9982	9866	9881
15°	10000	9808	9542
20°	10067	9611	9292
25°	10091	9430	9115
30°	10116	9276	8913
35°	10085	9144	8674
40°	10039	8977	8344
45°	9907	8777	6961
50°	9744	8590	6282
55°	9552	8308	6045
60°	9388	7933	5878
65°	9251	7596	5875
70°	9010	7301	5965
75°	8599	6946	6009
80°	8052	6245	5587
85°	7367	4421	3764



TEST NUMBER: P520713

CATALOG NUMBER: 8WSLA-175-L930-UPL8-UNV-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.8	3.0
10°-20°	991.8	8.6
20°-30°	1481.9	12.9
30°-40°	1769.0	15.4
40°-50°	1769.2	15.4
50°-60°	1531.1	13.4
60°-70°	1175.2	10.2
70°-80°	720.1	6.3
80°-90°	202.7	1.8
90°-100°	114.6	1.0
100°-110°	181.9	1.6
110°-120°	212.6	1.9
120°-130°	229.5	2.0
130°-140°	226.2	2.0
140°-150°	200.1	1.7
150°-160°	164.7	1.4
160°-170°	110.2	1.0
170°-180°	38.4	0.3
0°-30°	2822.5	24.6
0°-40°	4591.5	40.0
0°-60°	7891.8	68.8
0°-90°	9989.8	87.1
90°-120°	509.1	4.4
90°-150°	1164.9	10.2
90°-180°	1478.0	12.9
0°-180°	11468.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3685	3685	3685	3685	3685	
5°	3685	3674	3642	3669	3664	351
15°	3590	3584	3521	3457	3425	1016
25°	3399	3356	3176	3091	3070	1568
35°	3070	2990	2784	2683	2640	1922
45°	2603	2529	2306	2100	1829	2007
55°	2036	1988	1771	1416	1288	1825
65°	1453	1400	1193	960	923	1435
75°	827	785	668	578	578	873
85°	239	196	143	122	122	249
90°	11	37	58	74	80	17
95°	42	90	122	127	127	42
105°	122	127	180	212	223	128
115°	202	170	212	244	260	197
125°	270	217	244	281	292	241
135°	323	292	270	297	313	249
145°	360	345	302	297	308	225
155°	382	376	355	339	334	176
165°	392	398	387	387	387	111
175°	398	403	403	408	408	38
180°	403	403	403	403	403	



TEST NUMBER: P520713

CATALOG NUMBER: 8WSLA-175-L930-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3684.9	3684.9	3684.9	3684.9	3684.9
2.5°	3695.5	3684.9	3658.4	3684.9	3679.6
5°	3684.9	3674.3	3642.5	3669.0	3663.7
7.5°	3669.0	3658.4	3626.6	3658.4	3653.1
10°	3653.1	3642.5	3610.7	3631.9	3616.0
12.5°	3626.6	3616.0	3578.9	3552.4	3520.6
15°	3589.5	3584.2	3520.6	3456.9	3425.1
17.5°	3557.7	3541.8	3441.0	3366.8	3329.7
20°	3515.3	3488.8	3356.2	3271.4	3244.9
22.5°	3467.6	3425.1	3266.1	3186.5	3165.3
25°	3398.6	3356.2	3175.9	3091.1	3069.9
27.5°	3329.7	3276.7	3085.8	3001.0	2979.8
30°	3255.5	3181.2	2985.1	2905.5	2868.4
32.5°	3170.6	3096.4	2889.6	2799.5	2757.1
35°	3069.9	2990.4	2783.6	2682.8	2640.4
37.5°	2974.5	2889.6	2677.5	2566.2	2507.9
40°	2857.8	2773.0	2555.6	2433.6	2375.3
42.5°	2735.9	2656.3	2439.0	2290.5	2147.3
45°	2603.3	2529.1	2306.4	2099.6	1829.2
47.5°	2465.5	2401.8	2184.5	1903.4	1643.6
50°	2327.6	2264.0	2051.9	1717.9	1500.5
52.5°	2189.8	2136.7	1903.4	1564.1	1383.8
55°	2036.0	1988.3	1770.9	1415.7	1288.4
57.5°	1898.1	1850.4	1617.1	1293.7	1187.7
60°	1744.4	1702.0	1474.0	1171.8	1092.2
62.5°	1601.2	1553.5	1330.8	1065.7	1007.4
65°	1452.8	1399.7	1193.0	959.7	922.6
67.5°	1299.0	1246.0	1060.4	864.2	843.0
70°	1145.2	1102.8	927.9	768.8	758.2
72.5°	986.2	938.5	795.3	678.7	678.7
75°	827.1	784.7	668.1	577.9	577.9
77.5°	662.8	641.6	535.5	471.9	477.2
80°	519.6	493.1	403.0	360.5	360.5
82.5°	381.7	349.9	270.4	238.6	249.2
85°	238.6	196.2	143.2	121.9	121.9
87.5°	74.2	58.3	42.4	47.7	47.7
90°	10.6	37.1	58.3	74.2	79.5
92.5°	26.5	68.9	84.8	100.7	106.0
95°	42.4	90.1	121.9	127.2	127.2
97.5°	58.3	100.7	148.5	169.7	169.7
100°	79.5	106.0	159.1	190.9	196.2
102.5°	100.7	116.6	169.7	201.5	212.1
105°	121.9	127.2	180.3	212.1	222.7



TEST NUMBER: P520713

CATALOG NUMBER: 8WSLA-175-L930-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	180.3	159.1	201.5	238.6	249.2
115°	201.5	169.7	212.1	243.9	259.8
117.5°	217.4	185.6	222.7	254.5	265.1
120°	233.3	196.2	228.0	265.1	275.7
122.5°	254.5	206.8	238.6	270.4	286.3
125°	270.4	217.4	243.9	281.0	291.6
127.5°	286.3	238.6	249.2	286.3	296.9
130°	296.9	259.8	254.5	291.6	302.2
132.5°	312.8	275.7	259.8	296.9	307.5
135°	323.4	291.6	270.4	296.9	312.8
137.5°	334.0	307.5	270.4	296.9	307.5
140°	344.6	323.4	275.7	296.9	307.5
142.5°	349.9	334.0	281.0	296.9	307.5
145°	360.5	344.6	302.2	296.9	307.5
147.5°	365.8	355.2	318.1	296.9	307.5
150°	371.1	365.8	334.0	302.2	302.2
152.5°	376.4	371.1	344.6	323.4	312.8
155°	381.7	376.4	355.2	339.3	334.0
157.5°	387.1	387.1	365.8	355.2	349.9
160°	387.1	392.4	376.4	365.8	360.5
162.5°	392.4	397.7	381.7	376.4	371.1
165°	392.4	397.7	387.1	387.1	387.1
167.5°	397.7	403.0	397.7	392.4	392.4
170°	397.7	403.0	397.7	397.7	397.7
172.5°	397.7	403.0	403.0	403.0	403.0
175°	397.7	403.0	403.0	408.3	408.3
177.5°	397.7	403.0	403.0	403.0	403.0
180°	403.0	403.0	403.0	403.0	403.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	143.2	137.9	185.6	222.7	233.3
110°	159.1	148.5	196.2	228.0	238.6



(END OF REPORT)