

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: P520712

Luminaire Tested: **8WSLA-175-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: P520712  
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-175-L930-UPL15-UNV-U  
Description: 8 FOOT, 3500 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**

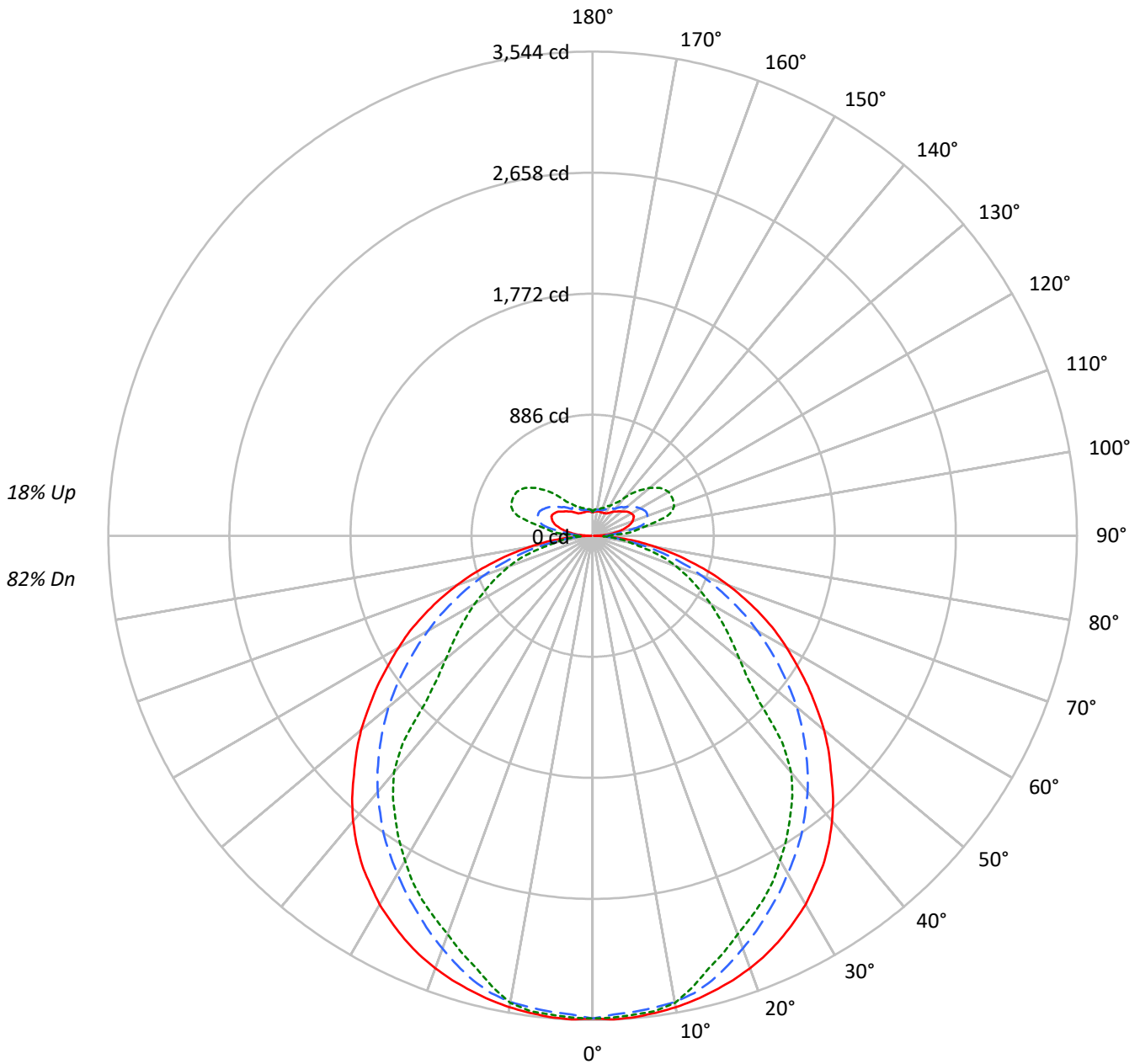
Lumens per Lamp: N/A  
Luminaire Lumens: 11442.0 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 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

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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°	9507	9507	9507
5°	9553	9447	9505
10°	9575	9468	9487
15°	9603	9393	9134
20°	9645	9204	8886
25°	9671	9022	8745
30°	9686	8874	8529
35°	9664	8758	8275
40°	9579	8597	7942
45°	9395	8386	6586
50°	9255	8160	5865
55°	9027	7834	5581
60°	8832	7483	5361
65°	8624	7073	5202
70°	8288	6625	5102
75°	7824	6073	4694
80°	7163	5108	4164
85°	6416	4424	4205



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.8	2.9
10°-20°	951.1	8.3
20°-30°	1419.5	12.4
30°-40°	1691.3	14.8
40°-50°	1682.3	14.7
50°-60°	1441.8	12.6
60°-70°	1085.9	9.5
70°-80°	628.9	5.5
80°-90°	189.0	1.7
90°-100°	202.9	1.8
100°-110°	416.7	3.6
110°-120°	440.6	3.9
120°-130°	367.6	3.2
130°-140°	256.8	2.2
140°-150°	159.8	1.4
150°-160°	99.1	0.9
160°-170°	55.8	0.5
170°-180°	18.0	0.2
0°-30°	2705.5	23.6
0°-40°	4396.8	38.4
0°-60°	7521.0	65.7
0°-90°	9424.8	82.4
90°-120°	1060.2	9.3
90°-150°	1844.4	16.1
90°-180°	2017.0	17.6
0°-180°	11442.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3533	3533	3533	3533	3533	
5°	3537	3526	3497	3522	3519	336
15°	3447	3443	3372	3314	3279	974
25°	3257	3210	3038	2963	2945	1502
35°	2942	2863	2666	2562	2519	1837
45°	2469	2408	2204	1985	1731	1909
55°	1924	1896	1670	1326	1190	1720
65°	1354	1322	1111	864	817	1339
75°	752	727	584	466	452	797
85°	208	183	143	136	136	222
90°	11	50	86	108	115	21
95°	115	154	176	258	280	110
105°	269	280	401	538	570	279
115°	333	283	426	588	645	324
125°	308	272	369	541	609	274
135°	251	272	297	401	462	196
145°	204	236	258	276	294	130
155°	186	197	211	229	233	86
165°	183	190	197	204	204	52
175°	179	183	186	190	194	17
180°	176	176	176	176	176	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3533.0	3533.0	3533.0	3533.0	3533.0
2.5°	3543.7	3536.6	3507.9	3536.6	3529.4
5°	3536.6	3525.8	3497.1	3522.2	3518.6
7.5°	3522.2	3515.1	3482.8	3511.5	3507.9
10°	3504.3	3493.6	3464.9	3486.4	3472.1
12.5°	3479.2	3472.1	3429.1	3411.1	3382.5
15°	3447.0	3443.4	3371.7	3314.4	3278.6
17.5°	3411.1	3396.8	3296.5	3228.4	3196.2
20°	3368.1	3346.6	3214.1	3135.2	3103.0
22.5°	3318.0	3285.7	3131.7	3056.4	3024.2
25°	3257.1	3210.5	3038.5	2963.3	2945.3
27.5°	3189.0	3135.2	2952.5	2877.3	2855.8
30°	3117.3	3049.2	2855.8	2784.1	2744.7
32.5°	3027.7	2963.3	2762.6	2680.2	2637.2
35°	2941.8	2862.9	2665.9	2561.9	2518.9
37.5°	2837.8	2759.0	2554.8	2450.9	2400.7
40°	2726.8	2647.9	2447.3	2325.5	2261.0
42.5°	2604.9	2533.3	2329.0	2182.1	2056.7
45°	2468.8	2407.9	2203.6	1985.1	1730.7
47.5°	2343.4	2286.0	2078.2	1795.2	1533.6
50°	2210.8	2157.0	1949.2	1616.0	1401.0
52.5°	2063.9	2024.5	1809.5	1461.9	1289.9
55°	1924.1	1895.5	1669.7	1325.8	1189.6
57.5°	1777.2	1748.6	1530.0	1196.8	1089.3
60°	1641.1	1612.4	1390.3	1082.1	996.1
62.5°	1504.9	1465.5	1254.1	971.0	899.4
65°	1354.4	1322.2	1110.8	863.5	817.0
67.5°	1203.9	1175.3	978.2	763.2	731.0
70°	1053.4	1028.4	842.0	666.5	648.5
72.5°	906.5	874.3	720.2	569.7	562.6
75°	752.5	727.4	584.1	465.8	451.5
77.5°	605.5	584.1	458.6	354.7	344.0
80°	462.2	440.7	329.6	258.0	268.7
82.5°	340.4	311.7	222.2	200.7	211.4
85°	207.8	182.7	143.3	136.2	136.2
87.5°	71.7	68.1	64.5	75.2	78.8
90°	10.7	50.2	86.0	107.5	114.7
92.5°	60.9	89.6	118.2	139.7	146.9
95°	114.7	154.1	175.6	258.0	279.5
97.5°	157.7	204.2	229.3	304.6	326.1
100°	200.7	243.7	322.5	361.9	387.0
102.5°	236.5	268.7	379.8	458.6	473.0
105°	268.7	279.5	401.3	537.5	569.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	322.5	286.7	430.0	584.1	641.4
115°	333.2	283.1	426.4	587.6	645.0
117.5°	333.2	283.1	415.6	587.6	645.0
120°	326.1	286.7	401.3	580.5	641.4
122.5°	318.9	279.5	387.0	566.1	627.0
125°	308.1	272.3	369.1	541.1	609.1
127.5°	290.2	279.5	351.1	508.8	576.9
130°	275.9	283.1	329.6	476.6	544.6
132.5°	265.2	275.9	308.1	440.7	501.6
135°	250.8	272.3	297.4	401.3	462.2
137.5°	240.1	261.6	279.5	365.5	415.6
140°	229.3	254.4	261.6	318.9	361.9
142.5°	215.0	243.7	247.2	297.4	315.3
145°	204.2	236.5	258.0	275.9	293.8
147.5°	193.5	222.2	250.8	254.4	272.3
150°	189.9	207.8	240.1	243.7	250.8
152.5°	186.3	200.7	222.2	243.7	247.2
155°	186.3	197.1	211.4	229.3	232.9
157.5°	182.7	197.1	204.2	218.6	222.2
160°	182.7	193.5	200.7	211.4	215.0
162.5°	182.7	193.5	197.1	207.8	211.4
165°	182.7	189.9	197.1	204.2	204.2
167.5°	182.7	189.9	193.5	200.7	200.7
170°	182.7	186.3	193.5	197.1	197.1
172.5°	179.2	186.3	189.9	197.1	197.1
175°	179.2	182.7	186.3	189.9	193.5
177.5°	172.0	182.7	186.3	189.9	186.3
180°	175.6	175.6	175.6	175.6	175.6



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	293.8	283.1	415.6	566.1	612.7
110°	311.7	286.7	426.4	576.9	634.2



(END OF REPORT)