

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: P520703

Luminaire Tested: **8WSLA-175-L835-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: P520703
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-L835-UPL15-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

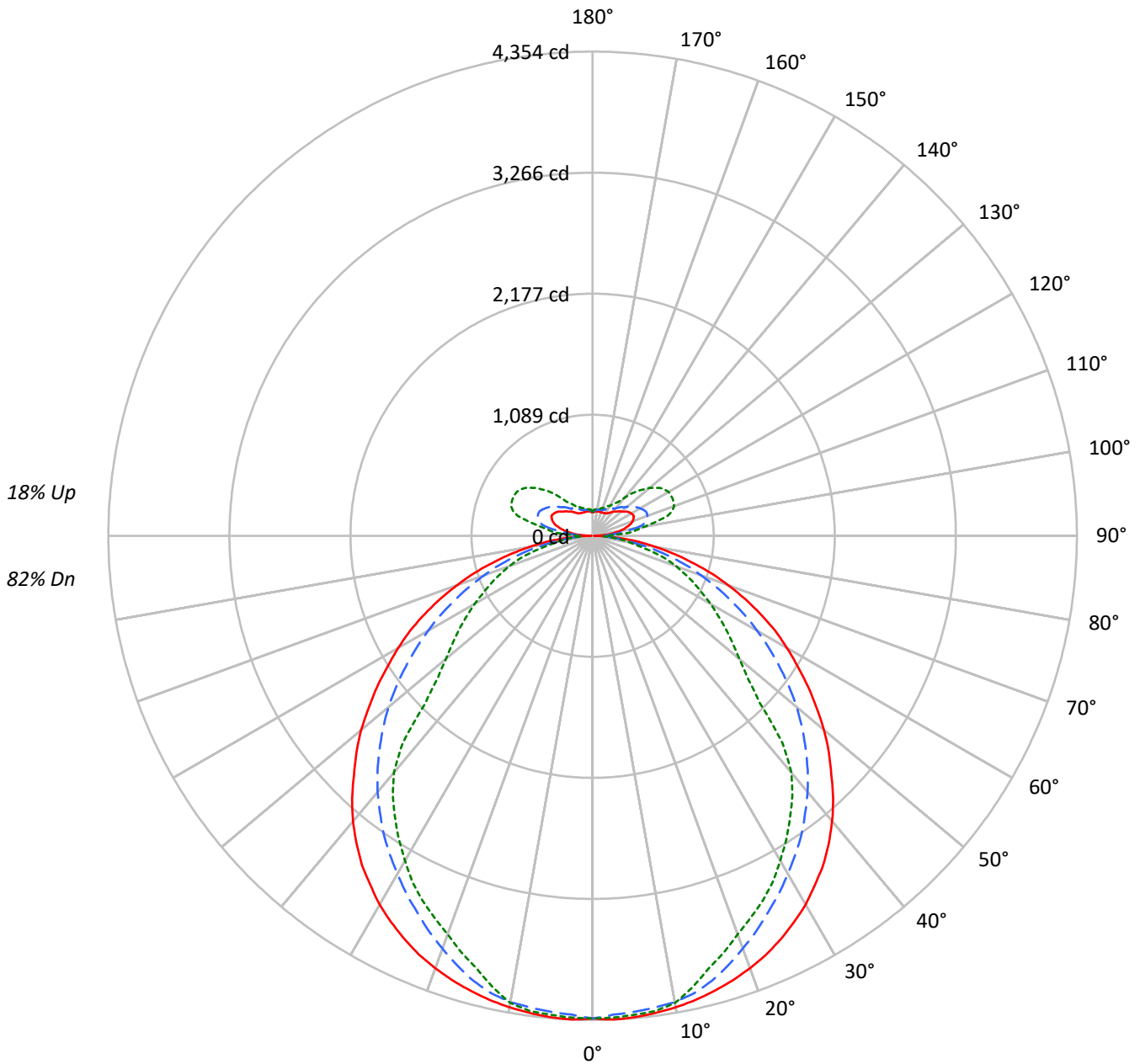
Lumens per Lamp: N/A
Luminaire Lumens: 14060.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 119
Input Voltage (V): NR
Input Current (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°	11682	11682	11682
5°	11739	11608	11679
10°	11766	11634	11658
15°	11800	11543	11224
20°	11852	11310	10919
25°	11883	11086	10746
30°	11903	10904	10480
35°	11875	10761	10168
40°	11770	10564	9760
45°	11545	10305	8093
50°	11373	10027	7207
55°	11093	9626	6858
60°	10853	9195	6588
65°	10597	8691	6392
70°	10185	8141	6270
75°	9613	7462	5768
80°	8802	6278	5117
85°	7886	5437	5165



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.5	2.9
10°-20°	1168.8	8.3
20°-30°	1744.3	12.4
30°-40°	2078.3	14.8
40°-50°	2067.3	14.7
50°-60°	1771.7	12.6
60°-70°	1334.3	9.5
70°-80°	772.8	5.5
80°-90°	232.3	1.7
90°-100°	249.3	1.8
100°-110°	512.0	3.6
110°-120°	541.4	3.9
120°-130°	451.7	3.2
130°-140°	315.5	2.2
140°-150°	196.4	1.4
150°-160°	121.7	0.9
160°-170°	68.6	0.5
170°-180°	22.1	0.2
0°-30°	3324.5	23.6
0°-40°	5402.8	38.4
0°-60°	9241.8	65.7
0°-90°	11581.2	82.4
90°-120°	1302.8	9.3
90°-150°	2266.4	16.1
90°-180°	2479.0	17.6
0°-180°	14060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4341	4341	4341	4341	4341	
5°	4346	4332	4297	4328	4324	413
15°	4236	4231	4143	4073	4029	1197
25°	4002	3945	3734	3641	3619	1845
35°	3615	3518	3276	3148	3095	2258
45°	3034	2959	2708	2439	2127	2345
55°	2364	2329	2052	1629	1462	2114
65°	1664	1625	1365	1061	1004	1645
75°	925	894	718	572	555	979
85°	255	225	176	167	167	272
90°	13	62	106	132	141	26
95°	141	189	216	317	343	135
105°	330	343	493	660	700	342
115°	410	348	524	722	792	399
125°	379	335	454	665	748	336
135°	308	335	365	493	568	241
145°	251	291	317	339	361	159
155°	229	242	260	282	286	106
165°	225	233	242	251	251	64
175°	220	225	229	233	238	21
180°	216	216	216	216	216	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4341.3	4341.3	4341.3	4341.3	4341.3
2.5°	4354.5	4345.7	4310.5	4345.7	4336.9
5°	4345.7	4332.5	4297.3	4328.1	4323.7
7.5°	4328.1	4319.3	4279.7	4314.9	4310.5
10°	4306.1	4292.9	4257.7	4284.1	4266.5
12.5°	4275.3	4266.5	4213.7	4191.6	4156.4
15°	4235.7	4231.3	4143.2	4072.8	4028.7
17.5°	4191.6	4174.0	4050.7	3967.1	3927.5
20°	4138.8	4112.4	3949.5	3852.6	3813.0
22.5°	4077.2	4037.5	3848.2	3755.7	3716.1
25°	4002.3	3945.1	3733.7	3641.3	3619.2
27.5°	3918.7	3852.6	3628.1	3535.6	3509.2
30°	3830.6	3746.9	3509.2	3421.1	3372.7
32.5°	3720.5	3641.3	3394.7	3293.4	3240.6
35°	3614.8	3518.0	3275.8	3148.1	3095.3
37.5°	3487.2	3390.3	3139.3	3011.6	2950.0
40°	3350.7	3253.8	3007.2	2857.5	2778.3
42.5°	3201.0	3112.9	2861.9	2681.4	2527.3
45°	3033.7	2958.8	2707.8	2439.3	2126.6
47.5°	2879.5	2809.1	2553.7	2205.9	1884.5
50°	2716.6	2650.6	2395.2	1985.7	1721.6
52.5°	2536.1	2487.7	2223.5	1796.4	1585.1
55°	2364.4	2329.2	2051.8	1629.1	1461.8
57.5°	2183.9	2148.7	1880.1	1470.6	1338.5
60°	2016.6	1981.3	1708.4	1329.7	1224.0
62.5°	1849.3	1800.8	1541.0	1193.2	1105.1
65°	1664.3	1624.7	1364.9	1061.1	1003.9
67.5°	1479.4	1444.2	1202.0	937.8	898.2
70°	1294.5	1263.7	1034.7	819.0	796.9
72.5°	1114.0	1074.3	885.0	700.1	691.3
75°	924.6	893.8	717.7	572.4	554.8
77.5°	744.1	717.7	563.6	435.9	422.7
80°	568.0	541.6	405.1	317.0	330.2
82.5°	418.3	383.1	273.0	246.6	259.8
85°	255.4	224.6	176.1	167.3	167.3
87.5°	88.1	83.7	79.3	92.5	96.9
90°	13.2	61.6	105.7	132.1	140.9
92.5°	74.9	110.1	145.3	171.7	180.5
95°	140.9	189.3	215.7	317.0	343.4
97.5°	193.7	251.0	281.8	374.3	400.7
100°	246.6	299.4	396.3	444.7	475.5
102.5°	290.6	330.2	466.7	563.6	581.2
105°	330.2	343.4	493.1	660.4	700.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	396.3	352.2	528.4	717.7	788.1
115°	409.5	347.8	524.0	722.1	792.5
117.5°	409.5	347.8	510.7	722.1	792.5
120°	400.7	352.2	493.1	713.3	788.1
122.5°	391.9	343.4	475.5	695.7	770.5
125°	378.7	334.6	453.5	664.8	748.5
127.5°	356.6	343.4	431.5	625.2	708.9
130°	339.0	347.8	405.1	585.6	669.3
132.5°	325.8	339.0	378.7	541.6	616.4
135°	308.2	334.6	365.4	493.1	568.0
137.5°	295.0	321.4	343.4	449.1	510.7
140°	281.8	312.6	321.4	391.9	444.7
142.5°	264.2	299.4	303.8	365.4	387.5
145°	251.0	290.6	317.0	339.0	361.0
147.5°	237.8	273.0	308.2	312.6	334.6
150°	233.4	255.4	295.0	299.4	308.2
152.5°	229.0	246.6	273.0	299.4	303.8
155°	229.0	242.2	259.8	281.8	286.2
157.5°	224.6	242.2	251.0	268.6	273.0
160°	224.6	237.8	246.6	259.8	264.2
162.5°	224.6	237.8	242.2	255.4	259.8
165°	224.6	233.4	242.2	251.0	251.0
167.5°	224.6	233.4	237.8	246.6	246.6
170°	224.6	229.0	237.8	242.2	242.2
172.5°	220.1	229.0	233.4	242.2	242.2
175°	220.1	224.6	229.0	233.4	237.8
177.5°	211.3	224.6	229.0	233.4	229.0
180°	215.7	215.7	215.7	215.7	215.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	361.0	347.8	510.7	695.7	752.9
110°	383.1	352.2	524.0	708.9	779.3



(END OF REPORT)