

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: P520739

Luminaire Tested: **8WSLA-200-L935-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: P520739
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-200-L935-UPL15-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

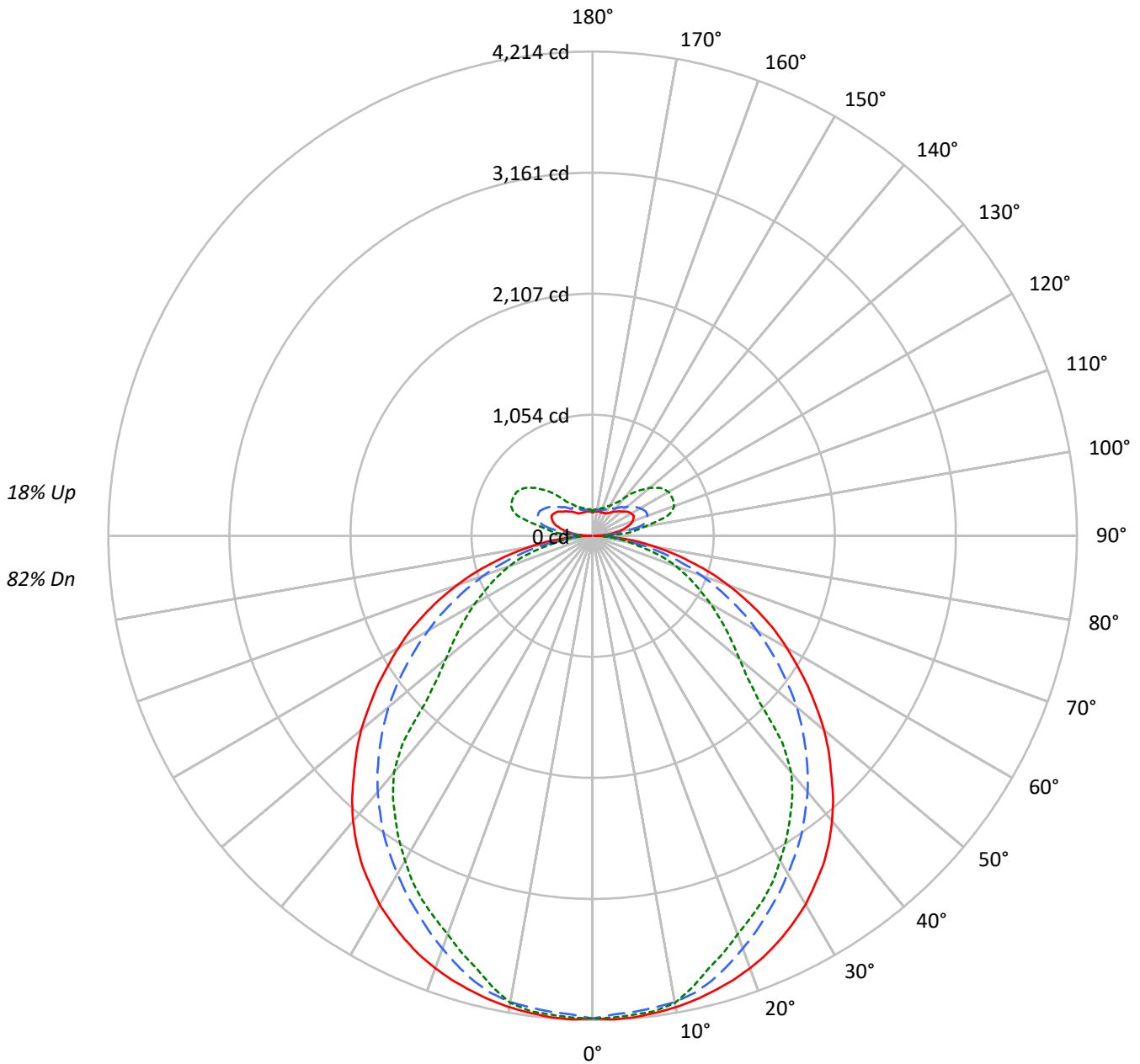
Lumens per Lamp: N/A
Luminaire Lumens: 13605.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	11304	11304	11304
5°	11359	11232	11302
10°	11386	11258	11281
15°	11418	11169	10861
20°	11469	10944	10566
25°	11499	10727	10398
30°	11517	10551	10141
35°	11491	10413	9839
40°	11389	10222	9444
45°	11171	9971	7831
50°	11005	9703	6974
55°	10734	9315	6636
60°	10502	8897	6374
65°	10255	8410	6185
70°	9855	7877	6067
75°	9302	7221	5581
80°	8517	6075	4951
85°	7629	5261	4999



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.1	2.9
10°-20°	1130.9	8.3
20°-30°	1687.8	12.4
30°-40°	2011.1	14.8
40°-50°	2000.4	14.7
50°-60°	1714.4	12.6
60°-70°	1291.2	9.5
70°-80°	747.8	5.5
80°-90°	224.7	1.7
90°-100°	241.3	1.8
100°-110°	495.5	3.6
110°-120°	523.9	3.9
120°-130°	437.1	3.2
130°-140°	305.3	2.2
140°-150°	190.0	1.4
150°-160°	117.8	0.9
160°-170°	66.3	0.5
170°-180°	21.4	0.2
0°-30°	3216.9	23.6
0°-40°	5228.0	38.4
0°-60°	8942.8	65.7
0°-90°	11206.4	82.4
90°-120°	1260.6	9.3
90°-150°	2193.0	16.1
90°-180°	2399.0	17.6
0°-180°	13605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4201	4201	4201	4201	4201	
5°	4205	4192	4158	4188	4184	400
15°	4099	4094	4009	3941	3898	1158
25°	3873	3817	3613	3523	3502	1786
35°	3498	3404	3170	3046	2995	2185
45°	2936	2863	2620	2360	2058	2269
55°	2288	2254	1985	1576	1414	2045
65°	1610	1572	1321	1027	971	1592
75°	895	865	694	554	537	948
85°	247	217	170	162	162	264
90°	13	60	102	128	136	25
95°	136	183	209	307	332	130
105°	320	332	477	639	677	331
115°	396	337	507	699	767	386
125°	366	324	439	643	724	325
135°	298	324	354	477	550	233
145°	243	281	307	328	349	154
155°	222	234	251	273	277	102
165°	217	226	234	243	243	62
175°	213	217	222	226	230	20
180°	209	209	209	209	209	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4200.8	4200.8	4200.8	4200.8	4200.8
2.5°	4213.6	4205.1	4171.0	4205.1	4196.6
5°	4205.1	4192.3	4158.2	4188.1	4183.8
7.5°	4188.1	4179.5	4141.2	4175.3	4171.0
10°	4166.8	4154.0	4119.9	4145.5	4128.4
12.5°	4136.9	4128.4	4077.3	4056.0	4021.9
15°	4098.6	4094.3	4009.1	3941.0	3898.4
17.5°	4056.0	4038.9	3919.7	3838.7	3800.4
20°	4004.9	3979.3	3821.7	3727.9	3689.6
22.5°	3945.2	3906.9	3723.7	3634.2	3595.9
25°	3872.8	3817.4	3612.9	3523.4	3502.1
27.5°	3791.8	3727.9	3510.6	3421.2	3395.6
30°	3706.6	3625.7	3395.6	3310.4	3263.5
32.5°	3600.1	3523.4	3284.8	3186.8	3135.7
35°	3497.9	3404.1	3169.8	3046.3	2995.1
37.5°	3374.3	3280.6	3037.7	2914.2	2854.5
40°	3242.2	3148.5	2909.9	2765.1	2688.4
42.5°	3097.4	3012.2	2769.3	2594.6	2445.5
45°	2935.5	2863.1	2620.2	2360.3	2057.8
47.5°	2786.4	2718.2	2471.1	2134.5	1823.5
50°	2628.7	2564.8	2317.7	1921.5	1665.9
52.5°	2454.0	2407.2	2151.5	1738.3	1533.8
55°	2287.9	2253.8	1985.4	1576.4	1414.5
57.5°	2113.2	2079.1	1819.2	1423.0	1295.2
60°	1951.3	1917.2	1653.1	1286.7	1184.4
62.5°	1789.4	1742.5	1491.2	1154.6	1069.4
65°	1610.5	1572.1	1320.8	1026.8	971.4
67.5°	1431.5	1397.4	1163.1	907.5	869.1
70°	1252.6	1222.8	1001.2	792.5	771.1
72.5°	1077.9	1039.6	856.4	677.4	668.9
75°	894.7	864.9	694.5	553.9	536.8
77.5°	720.0	694.5	545.3	421.8	409.0
80°	549.6	524.0	392.0	306.8	319.5
82.5°	404.7	370.7	264.2	238.6	251.4
85°	247.1	217.3	170.4	161.9	161.9
87.5°	85.2	80.9	76.7	89.5	93.7
90°	12.8	59.6	102.3	127.8	136.3
92.5°	72.4	106.5	140.6	166.2	174.7
95°	136.3	183.2	208.8	306.8	332.3
97.5°	187.5	242.8	272.7	362.1	387.7
100°	238.6	289.7	383.4	430.3	460.1
102.5°	281.2	319.5	451.6	545.3	562.4
105°	319.5	332.3	477.2	639.1	677.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	383.4	340.8	511.3	694.5	762.6
115°	396.2	336.6	507.0	698.7	766.9
117.5°	396.2	336.6	494.2	698.7	766.9
120°	387.7	340.8	477.2	690.2	762.6
122.5°	379.2	332.3	460.1	673.2	745.6
125°	366.4	323.8	438.8	643.3	724.3
127.5°	345.1	332.3	417.5	605.0	685.9
130°	328.1	336.6	392.0	566.6	647.6
132.5°	315.3	328.1	366.4	524.0	596.5
135°	298.2	323.8	353.6	477.2	549.6
137.5°	285.5	311.0	332.3	434.6	494.2
140°	272.7	302.5	311.0	379.2	430.3
142.5°	255.6	289.7	294.0	353.6	374.9
145°	242.8	281.2	306.8	328.1	349.4
147.5°	230.1	264.2	298.2	302.5	323.8
150°	225.8	247.1	285.5	289.7	298.2
152.5°	221.5	238.6	264.2	289.7	294.0
155°	221.5	234.3	251.4	272.7	276.9
157.5°	217.3	234.3	242.8	259.9	264.2
160°	217.3	230.1	238.6	251.4	255.6
162.5°	217.3	230.1	234.3	247.1	251.4
165°	217.3	225.8	234.3	242.8	242.8
167.5°	217.3	225.8	230.1	238.6	238.6
170°	217.3	221.5	230.1	234.3	234.3
172.5°	213.0	221.5	225.8	234.3	234.3
175°	213.0	217.3	221.5	225.8	230.1
177.5°	204.5	217.3	221.5	225.8	221.5
180°	208.8	208.8	208.8	208.8	208.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	349.4	336.6	494.2	673.2	728.5
110°	370.7	340.8	507.0	685.9	754.1



(END OF REPORT)