

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: P520727

Luminaire Tested: **8WSLA-200-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: P520727
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-L835-UPL15-UNV-U
Description: 8 FOOT, 4000 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

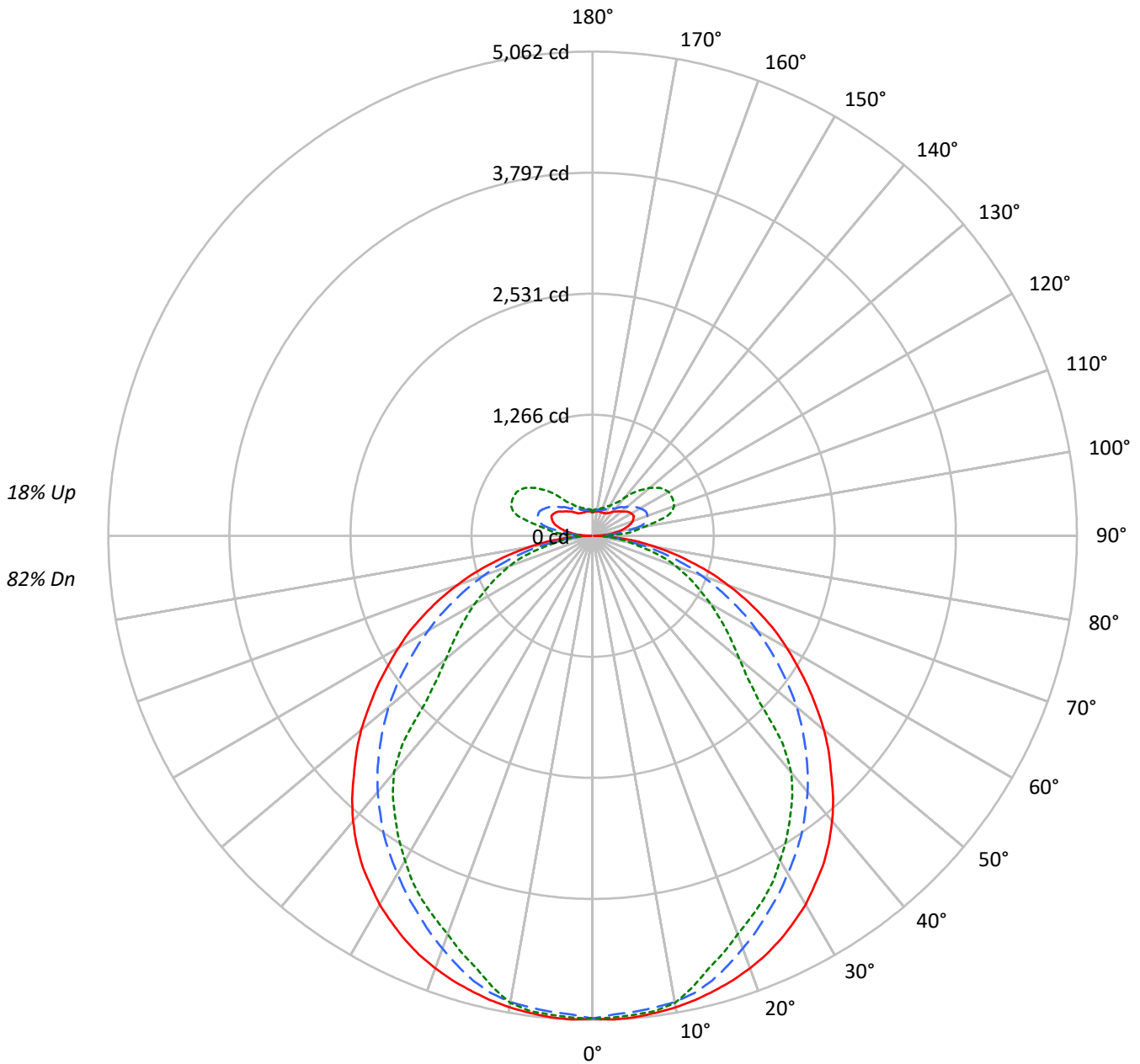
Lumens per Lamp: N/A
Luminaire Lumens: 16344.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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°	13580	13580	13580
5°	13646	13494	13577
10°	13678	13524	13552
15°	13717	13418	13047
20°	13777	13147	12693
25°	13814	12887	12492
30°	13836	12675	12182
35°	13804	12510	11820
40°	13682	12280	11345
45°	13421	11979	9408
50°	13220	11656	8378
55°	12895	11190	7972
60°	12616	10688	7658
65°	12319	10103	7431
70°	11840	9464	7289
75°	11175	8674	6705
80°	10232	7297	5949
85°	9167	6320	6005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.3	2.9
10°-20°	1358.6	8.3
20°-30°	2027.6	12.4
30°-40°	2416.0	14.8
40°-50°	2403.1	14.7
50°-60°	2059.5	12.6
60°-70°	1551.1	9.5
70°-80°	898.3	5.5
80°-90°	270.0	1.7
90°-100°	289.8	1.8
100°-110°	595.2	3.6
110°-120°	629.4	3.9
120°-130°	525.1	3.2
130°-140°	366.8	2.2
140°-150°	228.3	1.4
150°-160°	141.5	0.9
160°-170°	79.7	0.5
170°-180°	25.7	0.2
0°-30°	3864.6	23.6
0°-40°	6280.5	38.4
0°-60°	10743.1	65.7
0°-90°	13462.6	82.4
90°-120°	1514.4	9.3
90°-150°	2634.5	16.1
90°-180°	2881.0	17.6
0°-180°	16344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5047	5047	5047	5047	5047	
5°	5052	5036	4995	5031	5026	481
15°	4924	4919	4816	4734	4683	1391
25°	4652	4586	4340	4233	4207	2145
35°	4202	4090	3808	3660	3598	2625
45°	3526	3439	3148	2836	2472	2726
55°	2748	2708	2385	1894	1699	2457
65°	1935	1889	1587	1234	1167	1913
75°	1075	1039	834	665	645	1139
85°	297	261	205	194	194	317
90°	15	72	123	154	164	30
95°	164	220	251	368	399	157
105°	384	399	573	768	814	398
115°	476	404	609	839	921	463
125°	440	389	527	773	870	391
135°	358	389	425	573	660	280
145°	292	338	368	394	420	185
155°	266	282	302	328	333	123
165°	261	271	282	292	292	74
175°	256	261	266	271	276	24
180°	251	251	251	251	251	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5046.6	5046.6	5046.6	5046.6	5046.6
2.5°	5061.9	5051.7	5010.7	5051.7	5041.5
5°	5051.7	5036.3	4995.4	5031.2	5026.1
7.5°	5031.2	5021.0	4974.9	5015.9	5010.7
10°	5005.6	4990.3	4949.3	4980.0	4959.6
12.5°	4969.8	4959.6	4898.1	4872.6	4831.6
15°	4923.7	4918.6	4816.3	4734.4	4683.2
17.5°	4872.6	4852.1	4708.8	4611.5	4565.5
20°	4811.1	4780.4	4591.1	4478.5	4432.4
22.5°	4739.5	4693.4	4473.3	4365.8	4319.8
25°	4652.5	4585.9	4340.3	4232.8	4207.2
27.5°	4555.2	4478.5	4217.4	4109.9	4079.2
30°	4452.9	4355.6	4079.2	3976.9	3920.6
32.5°	4324.9	4232.8	3946.2	3828.4	3767.0
35°	4202.1	4089.5	3808.0	3659.5	3598.1
37.5°	4053.6	3941.0	3649.3	3500.9	3429.2
40°	3895.0	3782.4	3495.8	3321.7	3229.6
42.5°	3721.0	3618.6	3326.8	3117.0	2937.9
45°	3526.5	3439.4	3147.7	2835.5	2472.1
47.5°	3347.3	3265.4	2968.6	2564.2	2190.6
50°	3157.9	3081.2	2784.3	2308.3	2001.2
52.5°	2948.1	2891.8	2584.7	2088.2	1842.6
55°	2748.5	2707.5	2385.1	1893.7	1699.3
57.5°	2538.6	2497.7	2185.5	1709.5	1555.9
60°	2344.1	2303.2	1985.9	1545.7	1422.9
62.5°	2149.7	2093.4	1791.4	1387.0	1284.7
65°	1934.7	1888.6	1586.7	1233.5	1167.0
67.5°	1719.7	1678.8	1397.3	1090.2	1044.1
70°	1504.8	1468.9	1202.8	952.0	926.4
72.5°	1294.9	1248.8	1028.8	813.8	803.6
75°	1074.8	1039.0	834.3	665.4	644.9
77.5°	865.0	834.3	655.1	506.7	491.3
80°	660.3	629.5	470.9	368.5	383.9
82.5°	486.2	445.3	317.3	286.6	302.0
85°	296.9	261.0	204.7	194.5	194.5
87.5°	102.4	97.2	92.1	107.5	112.6
90°	15.4	71.7	122.8	153.5	163.8
92.5°	87.0	128.0	168.9	199.6	209.8
95°	163.8	220.1	250.8	368.5	399.2
97.5°	225.2	291.7	327.6	435.0	465.8
100°	286.6	348.0	460.6	516.9	552.8
102.5°	337.8	383.9	542.5	655.1	675.6
105°	383.9	399.2	573.2	767.7	813.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	460.6	409.5	614.2	834.3	916.2
115°	476.0	404.3	609.1	839.4	921.3
117.5°	476.0	404.3	593.7	839.4	921.3
120°	465.8	409.5	573.2	829.2	916.2
122.5°	455.5	399.2	552.8	808.7	895.7
125°	440.2	389.0	527.2	772.9	870.1
127.5°	414.6	399.2	501.6	726.8	824.0
130°	394.1	404.3	470.9	680.7	778.0
132.5°	378.7	394.1	440.2	629.5	716.6
135°	358.3	389.0	424.8	573.2	660.3
137.5°	342.9	373.6	399.2	522.1	593.7
140°	327.6	363.4	373.6	455.5	516.9
142.5°	307.1	348.0	353.2	424.8	450.4
145°	291.7	337.8	368.5	394.1	419.7
147.5°	276.4	317.3	358.3	363.4	389.0
150°	271.3	296.9	342.9	348.0	358.3
152.5°	266.1	286.6	317.3	348.0	353.2
155°	266.1	281.5	302.0	327.6	332.7
157.5°	261.0	281.5	291.7	312.2	317.3
160°	261.0	276.4	286.6	302.0	307.1
162.5°	261.0	276.4	281.5	296.9	302.0
165°	261.0	271.3	281.5	291.7	291.7
167.5°	261.0	271.3	276.4	286.6	286.6
170°	261.0	266.1	276.4	281.5	281.5
172.5°	255.9	266.1	271.3	281.5	281.5
175°	255.9	261.0	266.1	271.3	276.4
177.5°	245.7	261.0	266.1	271.3	266.1
180°	250.8	250.8	250.8	250.8	250.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	419.7	404.3	593.7	808.7	875.2
110°	445.3	409.5	609.1	824.0	905.9



(END OF REPORT)