

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: P520740

Luminaire Tested: **8WSLA-200-L935-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: P520740
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-200-L935-UPL8-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

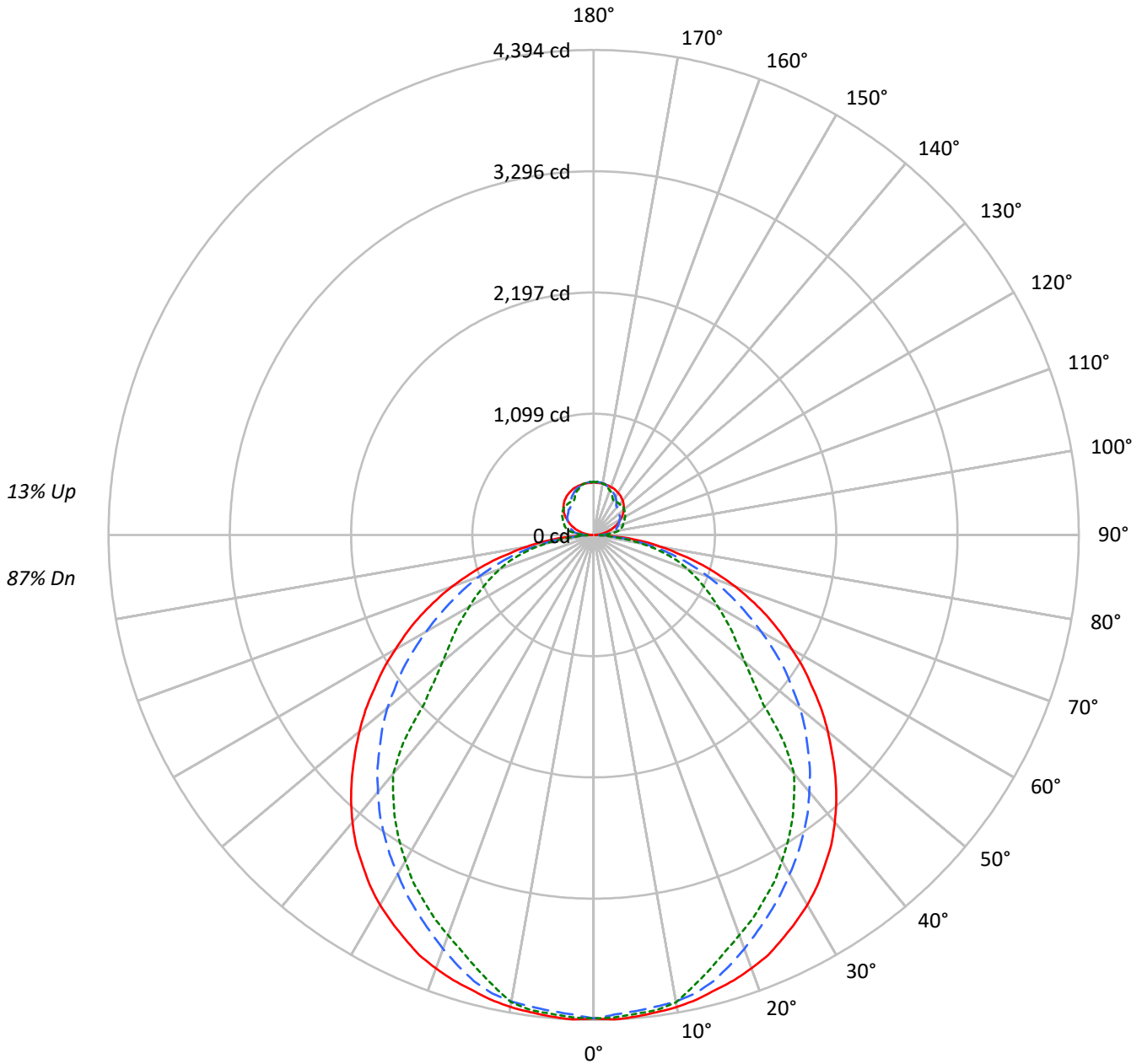
Lumens per Lamp: N/A
Luminaire Lumens: 13635.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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				20				20	
RC	80				70				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				87
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73				73
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61				61
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51				51
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44				44
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38				38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33				33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30				30
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26				26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24				24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11790	11790	11790
5°	11835	11699	11767
10°	11868	11731	11748
15°	11890	11661	11345
20°	11969	11427	11048
25°	11998	11212	10837
30°	12027	11028	10597
35°	11991	10872	10313
40°	11936	10674	9921
45°	11779	10436	8277
50°	11585	10213	7469
55°	11357	9878	7187
60°	11162	9432	6989
65°	10998	9032	6984
70°	10714	8680	7093
75°	10225	8258	7144
80°	9574	7424	6643
85°	8759	5255	4477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.8	3.0
10°-20°	1179.2	8.6
20°-30°	1761.9	12.9
30°-40°	2103.3	15.4
40°-50°	2103.5	15.4
50°-60°	1820.4	13.4
60°-70°	1397.3	10.2
70°-80°	856.2	6.3
80°-90°	241.0	1.8
90°-100°	136.2	1.0
100°-110°	216.2	1.6
110°-120°	252.8	1.9
120°-130°	272.9	2.0
130°-140°	268.9	2.0
140°-150°	237.9	1.7
150°-160°	195.8	1.4
160°-170°	131.0	1.0
170°-180°	45.6	0.3
0°-30°	3355.9	24.6
0°-40°	5459.2	40.0
0°-60°	9383.1	68.8
0°-90°	11877.6	87.1
90°-120°	605.3	4.4
90°-150°	1385.0	10.2
90°-180°	1757.0	12.9
0°-180°	13635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4381	4381	4381	4381	4381	
5°	4381	4369	4331	4362	4356	417
15°	4268	4262	4186	4110	4072	1207
25°	4041	3990	3776	3675	3650	1864
35°	3650	3555	3310	3190	3139	2286
45°	3095	3007	2742	2496	2175	2387
55°	2421	2364	2106	1683	1532	2170
65°	1727	1664	1418	1141	1097	1706
75°	983	933	794	687	687	1037
85°	284	233	170	145	145	297
90°	13	44	69	88	95	20
95°	50	107	145	151	151	50
105°	145	151	214	252	265	152
115°	240	202	252	290	309	234
125°	322	258	290	334	347	286
135°	384	347	322	353	372	297
145°	429	410	359	353	366	267
155°	454	448	422	404	397	209
165°	466	473	460	460	460	133
175°	473	479	479	485	485	45
180°	479	479	479	479	479	



TEST NUMBER: P520740

CATALOG NUMBER: 8WSLA-200-L935-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4381.2	4381.2	4381.2	4381.2	4381.2
2.5°	4393.9	4381.2	4349.7	4381.2	4374.9
5°	4381.2	4368.6	4330.8	4362.3	4356.0
7.5°	4362.3	4349.7	4311.9	4349.7	4343.4
10°	4343.4	4330.8	4293.0	4318.2	4299.3
12.5°	4311.9	4299.3	4255.2	4223.6	4185.8
15°	4267.8	4261.5	4185.8	4110.2	4072.4
17.5°	4230.0	4211.0	4091.3	4003.0	3958.9
20°	4179.5	4148.0	3990.4	3889.5	3858.0
22.5°	4122.8	4072.4	3883.2	3788.7	3763.5
25°	4040.8	3990.4	3776.1	3675.2	3650.0
27.5°	3958.9	3895.8	3668.9	3568.0	3542.8
30°	3870.6	3782.4	3549.1	3454.6	3410.4
32.5°	3769.8	3681.5	3435.7	3328.5	3278.1
35°	3650.0	3555.4	3309.6	3189.8	3139.4
37.5°	3536.5	3435.7	3183.5	3051.1	2981.8
40°	3397.8	3297.0	3038.5	2893.5	2824.2
42.5°	3252.8	3158.3	2899.8	2723.3	2553.1
45°	3095.2	3007.0	2742.2	2496.4	2174.9
47.5°	2931.3	2855.7	2597.2	2263.1	1954.2
50°	2767.4	2691.8	2439.6	2042.5	1784.0
52.5°	2603.5	2540.5	2263.1	1859.7	1645.3
55°	2420.7	2364.0	2105.5	1683.2	1531.9
57.5°	2256.8	2200.1	1922.7	1538.2	1412.1
60°	2074.0	2023.6	1752.5	1393.2	1298.6
62.5°	1903.8	1847.1	1582.3	1267.1	1197.8
65°	1727.3	1664.2	1418.4	1141.0	1096.9
67.5°	1544.5	1481.4	1260.8	1027.5	1002.3
70°	1361.7	1311.2	1103.2	914.1	901.5
72.5°	1172.5	1115.8	945.6	806.9	806.9
75°	983.4	933.0	794.3	687.1	687.1
77.5°	788.0	762.8	636.7	561.1	567.4
80°	617.8	586.3	479.1	428.7	428.7
82.5°	453.9	416.1	321.5	283.7	296.3
85°	283.7	233.2	170.2	145.0	145.0
87.5°	88.3	69.3	50.4	56.7	56.7
90°	12.6	44.1	69.3	88.3	94.6
92.5°	31.5	82.0	100.9	119.8	126.1
95°	50.4	107.2	145.0	151.3	151.3
97.5°	69.3	119.8	176.5	201.7	201.7
100°	94.6	126.1	189.1	226.9	233.2
102.5°	119.8	138.7	201.7	239.6	252.2
105°	145.0	151.3	214.3	252.2	264.8



TEST NUMBER: P520740

CATALOG NUMBER: 8WSLA-200-L935-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	214.3	189.1	239.6	283.7	296.3
115°	239.6	201.7	252.2	290.0	308.9
117.5°	258.5	220.6	264.8	302.6	315.2
120°	277.4	233.2	271.1	315.2	327.8
122.5°	302.6	245.9	283.7	321.5	340.4
125°	321.5	258.5	290.0	334.1	346.7
127.5°	340.4	283.7	296.3	340.4	353.0
130°	353.0	308.9	302.6	346.7	359.3
132.5°	371.9	327.8	308.9	353.0	365.6
135°	384.5	346.7	321.5	353.0	371.9
137.5°	397.1	365.6	321.5	353.0	365.6
140°	409.8	384.5	327.8	353.0	365.6
142.5°	416.1	397.1	334.1	353.0	365.6
145°	428.7	409.8	359.3	353.0	365.6
147.5°	435.0	422.4	378.2	353.0	365.6
150°	441.3	435.0	397.1	359.3	359.3
152.5°	447.6	441.3	409.8	384.5	371.9
155°	453.9	447.6	422.4	403.5	397.1
157.5°	460.2	460.2	435.0	422.4	416.1
160°	460.2	466.5	447.6	435.0	428.7
162.5°	466.5	472.8	453.9	447.6	441.3
165°	466.5	472.8	460.2	460.2	460.2
167.5°	472.8	479.1	472.8	466.5	466.5
170°	472.8	479.1	472.8	472.8	472.8
172.5°	472.8	479.1	479.1	479.1	479.1
175°	472.8	479.1	479.1	485.4	485.4
177.5°	472.8	479.1	479.1	479.1	479.1
180°	479.1	479.1	479.1	479.1	479.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	170.2	163.9	220.6	264.8	277.4
110°	189.1	176.5	233.2	271.1	283.7



(END OF REPORT)