

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: P520746

Luminaire Tested: **8WSLA-200-L950-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: P520746
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-L950-UPL8-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

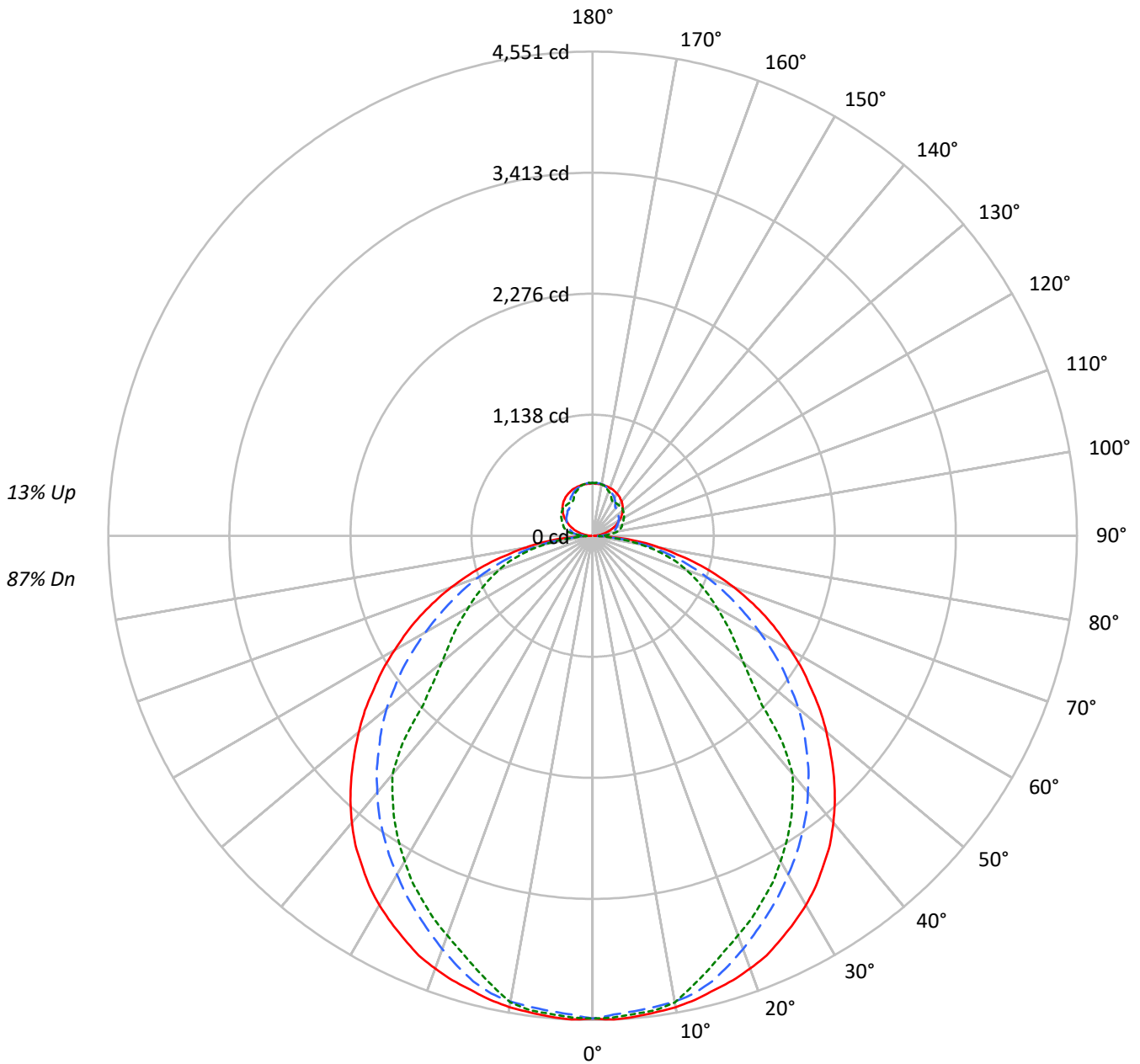
Lumens per Lamp: N/A
Luminaire Lumens: 14123.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 152.3
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P520746

CATALOG NUMBER: 8WSLA-200-L950-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520746

CATALOG NUMBER: 8WSLA-200-L950-UPL8-UNV-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12212	12212	12212
5°	12259	12117	12188
10°	12293	12150	12168
15°	12315	12079	11751
20°	12397	11836	11444
25°	12427	11613	11225
30°	12458	11423	10976
35°	12420	11261	10682
40°	12363	11056	10276
45°	12201	10809	8573
50°	12000	10579	7736
55°	11764	10232	7444
60°	11562	9769	7239
65°	11392	9355	7234
70°	11097	8991	7346
75°	10591	8554	7400
80°	9916	7689	6881
85°	9071	5443	4638



TEST NUMBER: P520746

CATALOG NUMBER: 8WSLA-200-L950-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.6	3.0
10°-20°	1221.4	8.6
20°-30°	1825.0	12.9
30°-40°	2178.5	15.4
40°-50°	2178.7	15.4
50°-60°	1885.6	13.4
60°-70°	1447.3	10.2
70°-80°	886.8	6.3
80°-90°	249.7	1.8
90°-100°	141.1	1.0
100°-110°	224.0	1.6
110°-120°	261.8	1.9
120°-130°	282.7	2.0
130°-140°	278.5	2.0
140°-150°	246.4	1.7
150°-160°	202.8	1.4
160°-170°	135.7	1.0
170°-180°	47.3	0.3
0°-30°	3476.0	24.6
0°-40°	5654.6	40.0
0°-60°	9718.9	68.8
0°-90°	12302.6	87.1
90°-120°	626.9	4.4
90°-150°	1434.6	10.2
90°-180°	1820.0	12.9
0°-180°	14123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4538	4538	4538	4538	4538	
5°	4538	4525	4486	4518	4512	432
15°	4420	4414	4336	4257	4218	1251
25°	4186	4133	3911	3807	3781	1931
35°	3781	3683	3428	3304	3252	2367
45°	3206	3115	2840	2586	2253	2472
55°	2507	2449	2181	1743	1587	2248
65°	1789	1724	1469	1182	1136	1767
75°	1019	966	823	712	712	1075
85°	294	242	176	150	150	307
90°	13	46	72	91	98	21
95°	52	111	150	157	157	51
105°	150	157	222	261	274	158
115°	248	209	261	300	320	242
125°	333	268	300	346	359	297
135°	398	359	333	366	385	307
145°	444	424	372	366	379	277
155°	470	464	438	418	411	217
165°	483	490	477	477	477	137
175°	490	496	496	503	503	47
180°	496	496	496	496	496	



TEST NUMBER: P520746

CATALOG NUMBER: 8WSLA-200-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4538.1	4538.1	4538.1	4538.1	4538.1
2.5°	4551.1	4538.1	4505.4	4538.1	4531.5
5°	4538.1	4525.0	4485.8	4518.5	4511.9
7.5°	4518.5	4505.4	4466.2	4505.4	4498.9
10°	4498.9	4485.8	4446.6	4472.8	4453.2
12.5°	4466.2	4453.2	4407.5	4374.8	4335.6
15°	4420.5	4414.0	4335.6	4257.3	4218.1
17.5°	4381.3	4361.8	4237.7	4146.3	4100.6
20°	4329.1	4296.5	4133.2	4028.7	3996.1
22.5°	4270.3	4218.1	4022.2	3924.3	3898.2
25°	4185.5	4133.2	3911.2	3806.7	3780.6
27.5°	4100.6	4035.3	3800.2	3695.7	3669.6
30°	4009.2	3917.7	3676.1	3578.2	3532.5
32.5°	3904.7	3813.3	3558.6	3447.6	3395.4
35°	3780.6	3682.7	3428.0	3304.0	3251.7
37.5°	3663.1	3558.6	3297.4	3160.3	3088.5
40°	3519.4	3415.0	3147.3	2997.1	2925.2
42.5°	3369.3	3271.3	3003.6	2820.8	2644.5
45°	3206.0	3114.6	2840.4	2585.7	2252.7
47.5°	3036.3	2957.9	2690.2	2344.1	2024.2
50°	2866.5	2788.1	2526.9	2115.6	1847.9
52.5°	2696.7	2631.4	2344.1	1926.2	1704.2
55°	2507.4	2448.6	2180.9	1743.4	1586.7
57.5°	2337.6	2278.8	1991.5	1593.2	1462.6
60°	2148.2	2096.0	1815.2	1443.0	1345.1
62.5°	1971.9	1913.2	1638.9	1312.4	1240.6
65°	1789.1	1723.8	1469.2	1181.9	1136.1
67.5°	1599.7	1534.4	1305.9	1064.3	1038.2
70°	1410.4	1358.2	1142.7	946.8	933.7
72.5°	1214.5	1155.7	979.4	835.8	835.8
75°	1018.6	966.4	822.7	711.7	711.7
77.5°	816.2	790.1	659.5	581.1	587.7
80°	639.9	607.3	496.2	444.0	444.0
82.5°	470.1	431.0	333.0	293.8	306.9
85°	293.8	241.6	176.3	150.2	150.2
87.5°	91.4	71.8	52.2	58.8	58.8
90°	13.1	45.7	71.8	91.4	97.9
92.5°	32.6	84.9	104.5	124.1	130.6
95°	52.2	111.0	150.2	156.7	156.7
97.5°	71.8	124.1	182.8	208.9	208.9
100°	97.9	130.6	195.9	235.1	241.6
102.5°	124.1	143.7	208.9	248.1	261.2
105°	150.2	156.7	222.0	261.2	274.2



TEST NUMBER: P520746

CATALOG NUMBER: 8WSLA-200-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.0	195.9	248.1	293.8	306.9
115°	248.1	208.9	261.2	300.4	319.9
117.5°	267.7	228.5	274.2	313.4	326.5
120°	287.3	241.6	280.8	326.5	339.5
122.5°	313.4	254.7	293.8	333.0	352.6
125°	333.0	267.7	300.4	346.1	359.1
127.5°	352.6	293.8	306.9	352.6	365.7
130°	365.7	319.9	313.4	359.1	372.2
132.5°	385.2	339.5	319.9	365.7	378.7
135°	398.3	359.1	333.0	365.7	385.2
137.5°	411.4	378.7	333.0	365.7	378.7
140°	424.4	398.3	339.5	365.7	378.7
142.5°	431.0	411.4	346.1	365.7	378.7
145°	444.0	424.4	372.2	365.7	378.7
147.5°	450.5	437.5	391.8	365.7	378.7
150°	457.1	450.5	411.4	372.2	372.2
152.5°	463.6	457.1	424.4	398.3	385.2
155°	470.1	463.6	437.5	417.9	411.4
157.5°	476.7	476.7	450.5	437.5	431.0
160°	476.7	483.2	463.6	450.5	444.0
162.5°	483.2	489.7	470.1	463.6	457.1
165°	483.2	489.7	476.7	476.7	476.7
167.5°	489.7	496.2	489.7	483.2	483.2
170°	489.7	496.2	489.7	489.7	489.7
172.5°	489.7	496.2	496.2	496.2	496.2
175°	489.7	496.2	496.2	502.8	502.8
177.5°	489.7	496.2	496.2	496.2	496.2
180°	496.2	496.2	496.2	496.2	496.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	176.3	169.8	228.5	274.2	287.3
110°	195.9	182.8	241.6	280.8	293.8



(END OF REPORT)