

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: P520649

Luminaire Tested: **8WSLA-100-L950-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: P520649
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-100-L950-UPL15-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

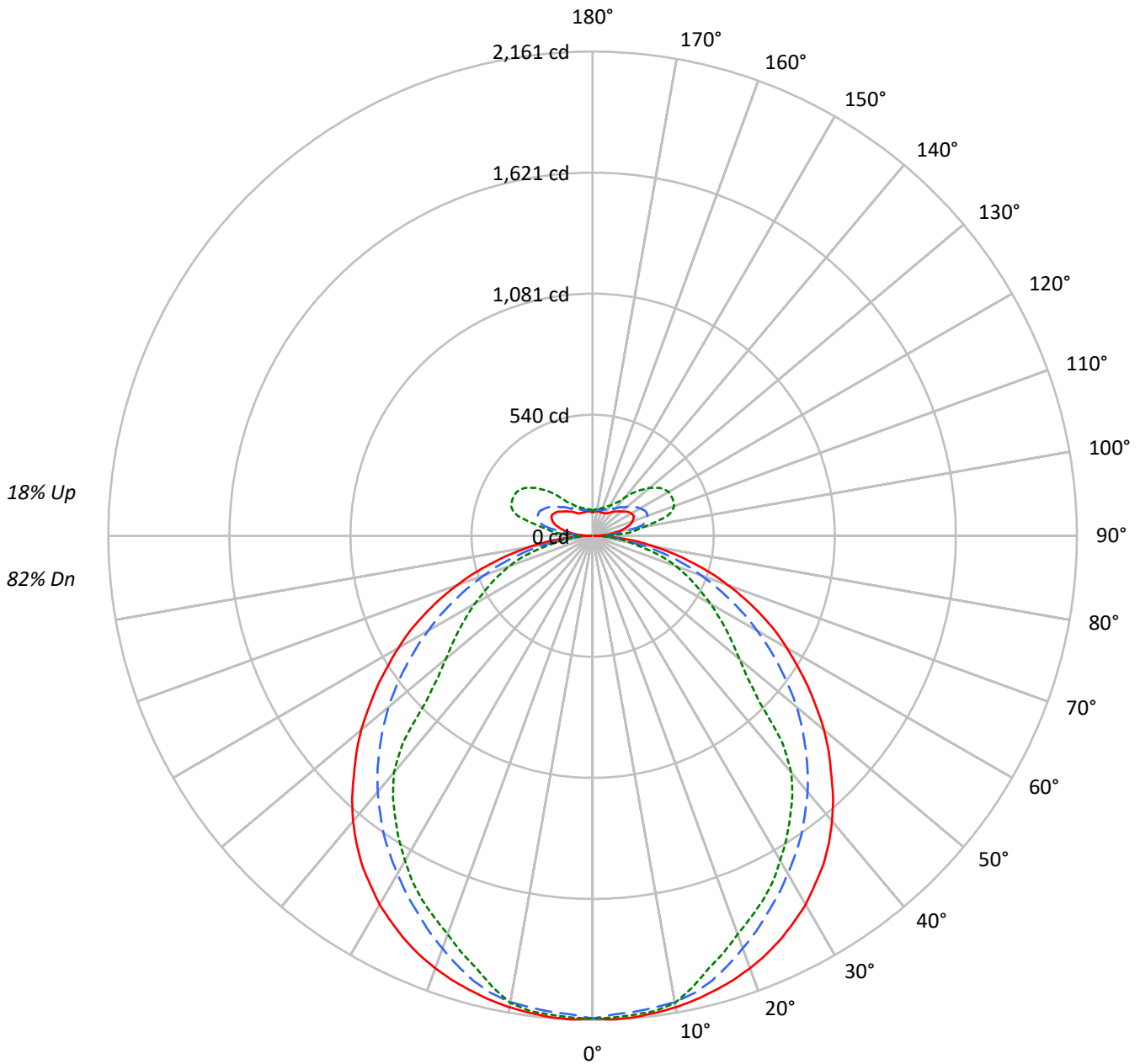
Lumens per Lamp: N/A
Luminaire Lumens: 6977.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.4
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				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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	72	72	72	69
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	61	61	61	58
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	52	52	52	49
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	45	45	45	42
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	39	39	39	36
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	34	34	34	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	30	30	30	28
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	27	27	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5797	5797	5797
5°	5825	5760	5796
10°	5839	5773	5785
15°	5856	5728	5570
20°	5881	5612	5418
25°	5897	5501	5333
30°	5907	5411	5200
35°	5893	5340	5046
40°	5841	5242	4843
45°	5729	5114	4016
50°	5644	4976	3576
55°	5505	4777	3403
60°	5386	4562	3269
65°	5259	4313	3172
70°	5054	4039	3112
75°	4770	3702	2862
80°	4369	3115	2540
85°	3912	2699	2563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.2	2.9
10°-20°	580.0	8.3
20°-30°	865.6	12.4
30°-40°	1031.3	14.8
40°-50°	1025.8	14.7
50°-60°	879.2	12.6
60°-70°	662.1	9.5
70°-80°	383.5	5.5
80°-90°	115.3	1.7
90°-100°	123.7	1.8
100°-110°	254.1	3.6
110°-120°	268.7	3.9
120°-130°	224.1	3.2
130°-140°	156.6	2.2
140°-150°	97.4	1.4
150°-160°	60.4	0.9
160°-170°	34.0	0.5
170°-180°	11.0	0.2
0°-30°	1649.7	23.6
0°-40°	2681.1	38.4
0°-60°	4586.1	65.7
0°-90°	5746.9	82.4
90°-120°	646.5	9.3
90°-150°	1124.6	16.1
90°-180°	1230.0	17.6
0°-180°	6977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2154	2154	2154	2154	2154	
5°	2156	2150	2132	2148	2146	205
15°	2102	2100	2056	2021	1999	594
25°	1986	1958	1853	1807	1796	916
35°	1794	1746	1626	1562	1536	1120
45°	1505	1468	1344	1210	1055	1164
55°	1173	1156	1018	808	725	1049
65°	826	806	677	527	498	816
75°	459	444	356	284	275	486
85°	127	111	87	83	83	135
90°	7	31	52	66	70	13
95°	70	94	107	157	170	67
105°	164	170	245	328	347	170
115°	203	173	260	358	393	198
125°	188	166	225	330	371	167
135°	153	166	181	245	282	119
145°	124	144	157	168	179	79
155°	114	120	129	140	142	52
165°	111	116	120	124	124	32
175°	109	111	114	116	118	10
180°	107	107	107	107	107	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2154.3	2154.3	2154.3	2154.3	2154.3
2.5°	2160.9	2156.5	2139.0	2156.5	2152.1
5°	2156.5	2149.9	2132.5	2147.7	2145.6
7.5°	2147.7	2143.4	2123.7	2141.2	2139.0
10°	2136.8	2130.3	2112.8	2125.9	2117.2
12.5°	2121.5	2117.2	2090.9	2080.0	2062.5
15°	2101.9	2099.7	2056.0	2021.0	1999.2
17.5°	2080.0	2071.3	2010.1	1968.6	1948.9
20°	2053.8	2040.7	1959.8	1911.8	1892.1
22.5°	2023.2	2003.5	1909.6	1863.7	1844.0
25°	1986.1	1957.7	1852.8	1806.9	1796.0
27.5°	1944.6	1911.8	1800.4	1754.5	1741.4
30°	1900.9	1859.3	1741.4	1697.7	1673.6
32.5°	1846.2	1806.9	1684.6	1634.3	1608.1
35°	1793.8	1745.7	1625.6	1562.2	1536.0
37.5°	1730.4	1682.4	1557.8	1494.5	1463.9
40°	1662.7	1614.6	1492.3	1418.0	1378.7
42.5°	1588.4	1544.7	1420.2	1330.6	1254.1
45°	1505.4	1468.2	1343.7	1210.4	1055.3
47.5°	1428.9	1394.0	1267.2	1094.6	935.1
50°	1348.1	1315.3	1188.6	985.4	854.3
52.5°	1258.5	1234.5	1103.4	891.4	786.6
55°	1173.3	1155.8	1018.2	808.4	725.4
57.5°	1083.7	1066.2	932.9	729.8	664.2
60°	1000.7	983.2	847.7	659.8	607.4
62.5°	917.7	893.6	764.7	592.1	548.4
65°	825.9	806.2	677.3	526.6	498.2
67.5°	734.1	716.6	596.5	465.4	445.7
70°	642.4	627.1	513.4	406.4	395.5
72.5°	552.8	533.1	439.2	347.4	343.0
75°	458.8	443.5	356.1	284.0	275.3
77.5°	369.2	356.1	279.7	216.3	209.7
80°	281.9	268.7	201.0	157.3	163.9
82.5°	207.6	190.1	135.5	122.4	128.9
85°	126.7	111.4	87.4	83.0	83.0
87.5°	43.7	41.5	39.3	45.9	48.1
90°	6.6	30.6	52.4	65.5	69.9
92.5°	37.1	54.6	72.1	85.2	89.6
95°	69.9	94.0	107.1	157.3	170.4
97.5°	96.1	124.5	139.8	185.7	198.8
100°	122.4	148.6	196.6	220.7	236.0
102.5°	144.2	163.9	231.6	279.7	288.4
105°	163.9	170.4	244.7	327.7	347.4



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CATALOG NUMBER: 8WSLA-100-L950-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	196.6	174.8	262.2	356.1	391.1
115°	203.2	172.6	260.0	358.3	393.3
117.5°	203.2	172.6	253.4	358.3	393.3
120°	198.8	174.8	244.7	354.0	391.1
122.5°	194.5	170.4	236.0	345.2	382.4
125°	187.9	166.1	225.0	329.9	371.4
127.5°	177.0	170.4	214.1	310.3	351.8
130°	168.2	172.6	201.0	290.6	332.1
132.5°	161.7	168.2	187.9	268.7	305.9
135°	152.9	166.1	181.3	244.7	281.9
137.5°	146.4	159.5	170.4	222.9	253.4
140°	139.8	155.1	159.5	194.5	220.7
142.5°	131.1	148.6	150.8	181.3	192.3
145°	124.5	144.2	157.3	168.2	179.2
147.5°	118.0	135.5	152.9	155.1	166.1
150°	115.8	126.7	146.4	148.6	152.9
152.5°	113.6	122.4	135.5	148.6	150.8
155°	113.6	120.2	128.9	139.8	142.0
157.5°	111.4	120.2	124.5	133.3	135.5
160°	111.4	118.0	122.4	128.9	131.1
162.5°	111.4	118.0	120.2	126.7	128.9
165°	111.4	115.8	120.2	124.5	124.5
167.5°	111.4	115.8	118.0	122.4	122.4
170°	111.4	113.6	118.0	120.2	120.2
172.5°	109.2	113.6	115.8	120.2	120.2
175°	109.2	111.4	113.6	115.8	118.0
177.5°	104.9	111.4	113.6	115.8	113.6
180°	107.1	107.1	107.1	107.1	107.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	179.2	172.6	253.4	345.2	373.6
110°	190.1	174.8	260.0	351.8	386.7



(END OF REPORT)