

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: P520650

Luminaire Tested: **8WSLA-100-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: P520650
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-100-L950-UPL8-UNV-U
Description: 8 FOOT, 2000 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

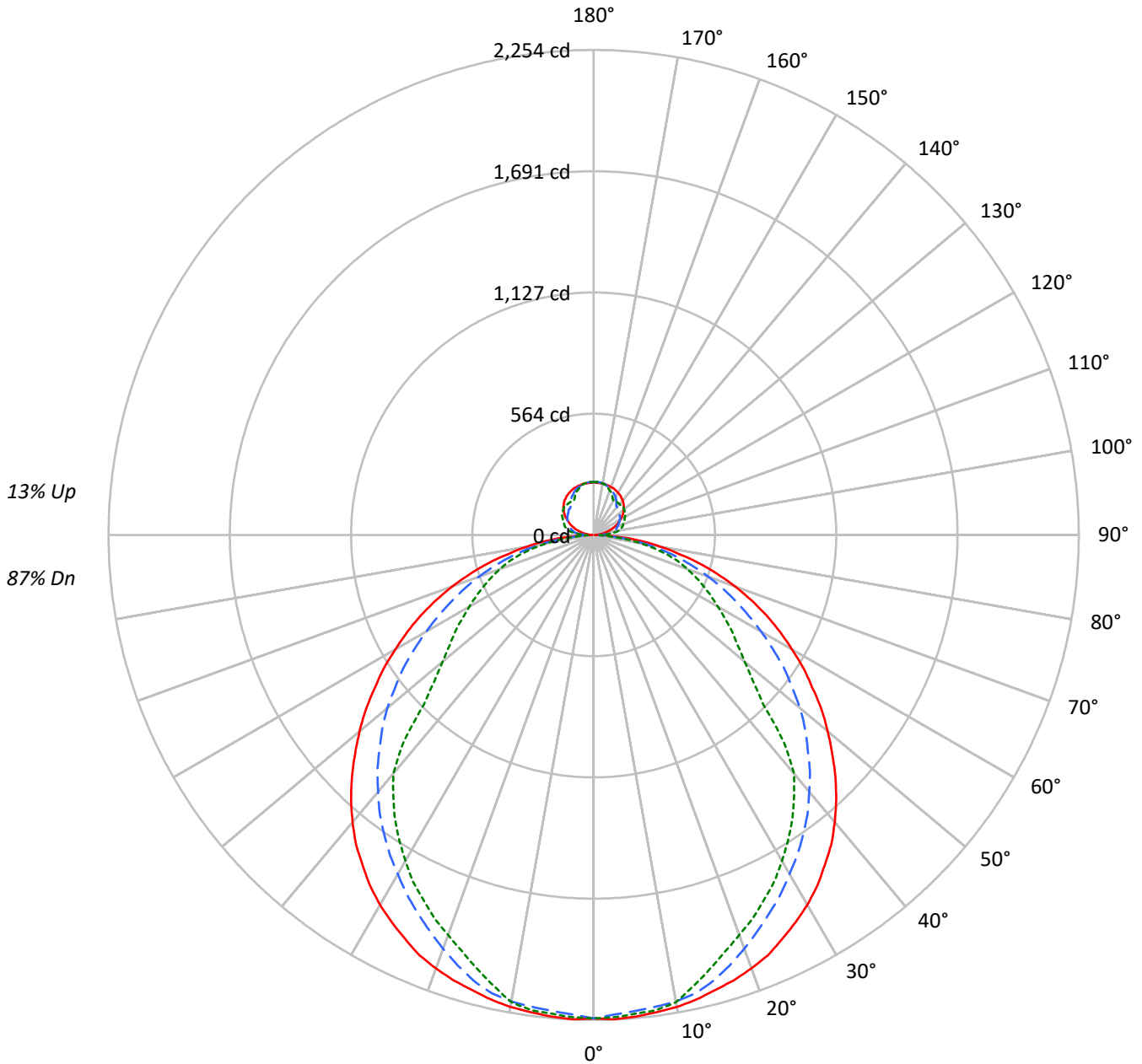
Lumens per Lamp: N/A
Luminaire Lumens: 6993.1 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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	
RC	80									50					30					10	0
RW	70	50	30	10	70	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°	6047	6047	6047
5°	6070	6000	6035
10°	6087	6016	6025
15°	6098	5981	5819
20°	6139	5861	5666
25°	6153	5750	5558
30°	6168	5656	5435
35°	6150	5576	5289
40°	6121	5474	5088
45°	6041	5352	4245
50°	5942	5238	3831
55°	5825	5066	3686
60°	5725	4837	3584
65°	5641	4632	3582
70°	5495	4452	3637
75°	5244	4236	3664
80°	4909	3808	3408
85°	4492	2695	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	3.0
10°-20°	604.8	8.6
20°-30°	903.7	12.9
30°-40°	1078.7	15.4
40°-50°	1078.8	15.4
50°-60°	933.6	13.4
60°-70°	716.6	10.2
70°-80°	439.1	6.3
80°-90°	123.6	1.8
90°-100°	69.9	1.0
100°-110°	110.9	1.6
110°-120°	129.7	1.9
120°-130°	140.0	2.0
130°-140°	137.9	2.0
140°-150°	122.0	1.7
150°-160°	100.4	1.4
160°-170°	67.2	1.0
170°-180°	23.4	0.3
0°-30°	1721.2	24.6
0°-40°	2799.8	40.0
0°-60°	4812.3	68.8
0°-90°	6091.7	87.1
90°-120°	310.4	4.4
90°-150°	710.4	10.2
90°-180°	901.0	12.9
0°-180°	6993.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2247	2247	2247	2247	2247	
5°	2247	2240	2221	2237	2234	214
15°	2189	2186	2147	2108	2089	619
25°	2072	2047	1937	1885	1872	956
35°	1872	1824	1697	1636	1610	1172
45°	1588	1542	1406	1280	1115	1224
55°	1242	1212	1080	863	786	1113
65°	886	854	728	585	563	875
75°	504	478	407	352	352	532
85°	146	120	87	74	74	152
90°	6	23	36	45	48	10
95°	26	55	74	78	78	26
105°	74	78	110	129	136	78
115°	123	104	129	149	158	120
125°	165	133	149	171	178	147
135°	197	178	165	181	191	152
145°	220	210	184	181	188	137
155°	233	230	217	207	204	107
165°	239	242	236	236	236	68
175°	242	246	246	249	249	23
180°	246	246	246	246	246	



TEST NUMBER: P520650

CATALOG NUMBER: 8WSLA-100-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2247.0	2247.0	2247.0	2247.0	2247.0
2.5°	2253.5	2247.0	2230.8	2247.0	2243.8
5°	2247.0	2240.5	2221.2	2237.3	2234.1
7.5°	2237.3	2230.8	2211.5	2230.8	2227.6
10°	2227.6	2221.2	2201.8	2214.7	2205.0
12.5°	2211.5	2205.0	2182.4	2166.2	2146.8
15°	2188.8	2185.6	2146.8	2108.0	2088.6
17.5°	2169.4	2159.7	2098.3	2053.0	2030.4
20°	2143.6	2127.4	2046.6	1994.8	1978.7
22.5°	2114.5	2088.6	1991.6	1943.1	1930.2
25°	2072.4	2046.6	1936.6	1884.9	1872.0
27.5°	2030.4	1998.1	1881.7	1829.9	1817.0
30°	1985.1	1939.9	1820.2	1771.7	1749.1
32.5°	1933.4	1888.1	1762.0	1707.1	1681.2
35°	1872.0	1823.5	1697.4	1636.0	1610.1
37.5°	1813.8	1762.0	1632.7	1564.8	1529.3
40°	1742.6	1690.9	1558.4	1484.0	1448.4
42.5°	1668.3	1619.8	1487.2	1396.7	1309.4
45°	1587.5	1542.2	1406.4	1280.3	1115.4
47.5°	1503.4	1464.6	1332.0	1160.7	1002.3
50°	1419.3	1380.5	1251.2	1047.5	915.0
52.5°	1335.3	1302.9	1160.7	953.8	843.8
55°	1241.5	1212.4	1079.9	863.2	785.6
57.5°	1157.5	1128.4	986.1	788.9	724.2
60°	1063.7	1037.8	898.8	714.5	666.0
62.5°	976.4	947.3	811.5	649.9	614.3
65°	885.9	853.5	727.5	585.2	562.6
67.5°	792.1	759.8	646.6	527.0	514.1
70°	698.4	672.5	565.8	468.8	462.3
72.5°	601.4	572.3	485.0	413.8	413.8
75°	504.4	478.5	407.4	352.4	352.4
77.5°	404.1	391.2	326.5	287.7	291.0
80°	316.8	300.7	245.7	219.9	219.9
82.5°	232.8	213.4	164.9	145.5	152.0
85°	145.5	119.6	87.3	74.4	74.4
87.5°	45.3	35.6	25.9	29.1	29.1
90°	6.5	22.6	35.6	45.3	48.5
92.5°	16.2	42.0	51.7	61.4	64.7
95°	25.9	55.0	74.4	77.6	77.6
97.5°	35.6	61.4	90.5	103.5	103.5
100°	48.5	64.7	97.0	116.4	119.6
102.5°	61.4	71.1	103.5	122.9	129.3
105°	74.4	77.6	109.9	129.3	135.8



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CATALOG NUMBER: 8WSLA-100-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.9	97.0	122.9	145.5	152.0
115°	122.9	103.5	129.3	148.7	158.4
117.5°	132.6	113.2	135.8	155.2	161.7
120°	142.3	119.6	139.0	161.7	168.1
122.5°	155.2	126.1	145.5	164.9	174.6
125°	164.9	132.6	148.7	171.4	177.8
127.5°	174.6	145.5	152.0	174.6	181.1
130°	181.1	158.4	155.2	177.8	184.3
132.5°	190.8	168.1	158.4	181.1	187.5
135°	197.2	177.8	164.9	181.1	190.8
137.5°	203.7	187.5	164.9	181.1	187.5
140°	210.2	197.2	168.1	181.1	187.5
142.5°	213.4	203.7	171.4	181.1	187.5
145°	219.9	210.2	184.3	181.1	187.5
147.5°	223.1	216.6	194.0	181.1	187.5
150°	226.3	223.1	203.7	184.3	184.3
152.5°	229.6	226.3	210.2	197.2	190.8
155°	232.8	229.6	216.6	206.9	203.7
157.5°	236.0	236.0	223.1	216.6	213.4
160°	236.0	239.3	229.6	223.1	219.9
162.5°	239.3	242.5	232.8	229.6	226.3
165°	239.3	242.5	236.0	236.0	236.0
167.5°	242.5	245.7	242.5	239.3	239.3
170°	242.5	245.7	242.5	242.5	242.5
172.5°	242.5	245.7	245.7	245.7	245.7
175°	242.5	245.7	245.7	248.9	248.9
177.5°	242.5	245.7	245.7	245.7	245.7
180°	245.7	245.7	245.7	245.7	245.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	87.3	84.1	113.2	135.8	142.3
110°	97.0	90.5	119.6	139.0	145.5



(END OF REPORT)