

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: P520640

Luminaire Tested: **8WSLA-100-L930-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: P520640
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-L930-UPL15-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

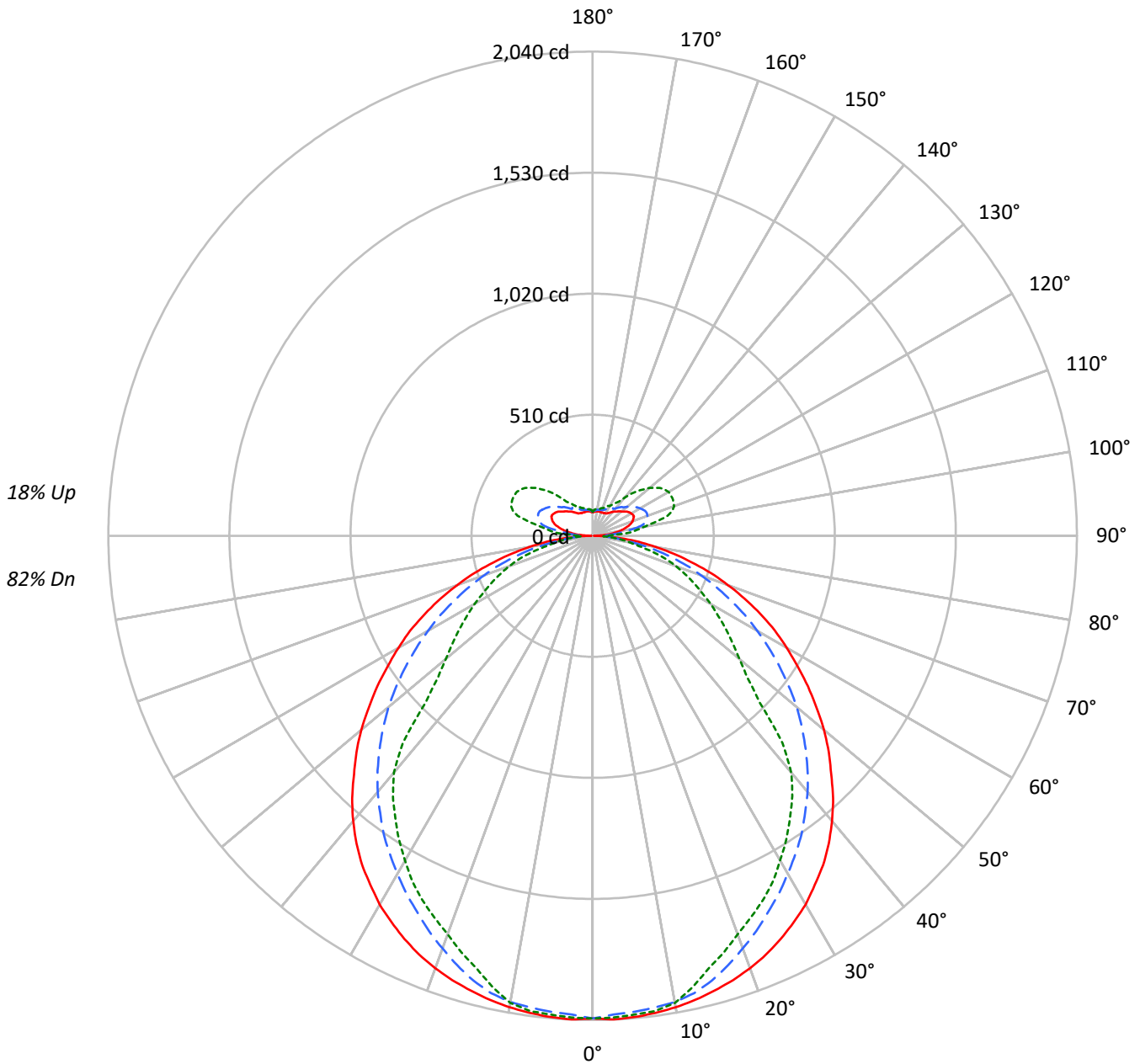
Lumens per Lamp: N/A
Luminaire Lumens: 6586.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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									
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	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°	5472	5472	5472
5°	5499	5437	5471
10°	5512	5450	5461
15°	5528	5407	5257
20°	5552	5298	5115
25°	5567	5193	5034
30°	5575	5108	4909
35°	5563	5041	4763
40°	5513	4949	4572
45°	5408	4827	3791
50°	5327	4697	3376
55°	5196	4509	3212
60°	5084	4307	3086
65°	4964	4071	2994
70°	4771	3814	2937
75°	4503	3496	2702
80°	4124	2940	2397
85°	3693	2547	2421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	2.9
10°-20°	547.5	8.3
20°-30°	817.1	12.4
30°-40°	973.5	14.8
40°-50°	968.3	14.7
50°-60°	829.9	12.6
60°-70°	625.0	9.5
70°-80°	362.0	5.5
80°-90°	108.8	1.7
90°-100°	116.8	1.8
100°-110°	239.9	3.6
110°-120°	253.6	3.9
120°-130°	211.6	3.2
130°-140°	147.8	2.2
140°-150°	92.0	1.4
150°-160°	57.0	0.9
160°-170°	32.1	0.5
170°-180°	10.4	0.2
0°-30°	1557.3	23.6
0°-40°	2530.8	38.4
0°-60°	4329.1	65.7
0°-90°	5424.9	82.4
90°-120°	610.3	9.3
90°-150°	1061.6	16.1
90°-180°	1161.0	17.6
0°-180°	6586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2034	2034	2034	2034	2034	
5°	2036	2029	2013	2027	2025	194
15°	1984	1982	1941	1908	1887	561
25°	1875	1848	1749	1706	1695	864
35°	1693	1648	1534	1475	1450	1058
45°	1421	1386	1268	1143	996	1099
55°	1108	1091	961	763	685	990
65°	780	761	639	497	470	771
75°	433	419	336	268	260	459
85°	120	105	82	78	78	128
90°	6	29	50	62	66	12
95°	66	89	101	148	161	63
105°	155	161	231	309	328	160
115°	192	163	245	338	371	187
125°	177	157	212	311	351	158
135°	144	157	171	231	266	113
145°	118	136	148	159	169	75
155°	107	113	122	132	134	49
165°	105	109	113	118	118	30
175°	103	105	107	109	111	10
180°	101	101	101	101	101	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2033.6	2033.6	2033.6	2033.6	2033.6
2.5°	2039.8	2035.6	2019.1	2035.6	2031.5
5°	2035.6	2029.4	2012.9	2027.4	2025.3
7.5°	2027.4	2023.3	2004.7	2021.2	2019.1
10°	2017.1	2010.9	1994.4	2006.8	1998.5
12.5°	2002.6	1998.5	1973.8	1963.5	1947.0
15°	1984.1	1982.0	1940.8	1907.8	1887.1
17.5°	1963.5	1955.2	1897.5	1858.3	1839.7
20°	1938.7	1926.3	1850.0	1804.6	1786.1
22.5°	1909.8	1891.3	1802.6	1759.3	1740.7
25°	1874.8	1848.0	1749.0	1705.6	1695.3
27.5°	1835.6	1804.6	1699.5	1656.1	1643.8
30°	1794.3	1755.1	1643.8	1602.5	1579.8
32.5°	1742.8	1705.6	1590.1	1542.7	1518.0
35°	1693.3	1647.9	1534.5	1474.7	1449.9
37.5°	1633.5	1588.1	1470.5	1410.7	1381.8
40°	1569.5	1524.1	1408.7	1338.5	1301.4
42.5°	1499.4	1458.2	1340.6	1256.0	1183.8
45°	1421.0	1386.0	1268.4	1142.6	996.2
47.5°	1348.8	1315.8	1196.2	1033.3	882.7
50°	1272.5	1241.6	1122.0	930.2	806.4
52.5°	1188.0	1165.3	1041.5	841.5	742.5
55°	1107.5	1091.0	961.1	763.1	684.7
57.5°	1023.0	1006.5	880.7	688.9	627.0
60°	944.6	928.1	800.2	622.9	573.4
62.5°	866.2	843.5	721.9	558.9	517.7
65°	779.6	761.0	639.4	497.1	470.2
67.5°	693.0	676.5	563.0	439.3	420.7
70°	606.4	591.9	484.7	383.6	373.3
72.5°	521.8	503.2	414.6	327.9	323.8
75°	433.1	418.7	336.2	268.1	259.9
77.5°	348.6	336.2	264.0	204.2	198.0
80°	266.1	253.7	189.7	148.5	154.7
82.5°	195.9	179.4	127.9	115.5	121.7
85°	119.6	105.2	82.5	78.4	78.4
87.5°	41.2	39.2	37.1	43.3	45.4
90°	6.2	28.9	49.5	61.9	66.0
92.5°	35.1	51.6	68.1	80.4	84.6
95°	66.0	88.7	101.1	148.5	160.9
97.5°	90.7	117.6	132.0	175.3	187.7
100°	115.5	140.2	185.6	208.3	222.7
102.5°	136.1	154.7	218.6	264.0	272.2
105°	154.7	160.9	231.0	309.4	327.9



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CATALOG NUMBER: 8WSLA-100-L930-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	185.6	165.0	247.5	336.2	369.2
115°	191.8	162.9	245.4	338.2	371.2
117.5°	191.8	162.9	239.2	338.2	371.2
120°	187.7	165.0	231.0	334.1	369.2
122.5°	183.6	160.9	222.7	325.9	360.9
125°	177.4	156.7	212.4	311.4	350.6
127.5°	167.1	160.9	202.1	292.9	332.1
130°	158.8	162.9	189.7	274.3	313.5
132.5°	152.6	158.8	177.4	253.7	288.7
135°	144.4	156.7	171.2	231.0	266.1
137.5°	138.2	150.6	160.9	210.4	239.2
140°	132.0	146.4	150.6	183.6	208.3
142.5°	123.7	140.2	142.3	171.2	181.5
145°	117.6	136.1	148.5	158.8	169.1
147.5°	111.4	127.9	144.4	146.4	156.7
150°	109.3	119.6	138.2	140.2	144.4
152.5°	107.2	115.5	127.9	140.2	142.3
155°	107.2	113.4	121.7	132.0	134.1
157.5°	105.2	113.4	117.6	125.8	127.9
160°	105.2	111.4	115.5	121.7	123.7
162.5°	105.2	111.4	113.4	119.6	121.7
165°	105.2	109.3	113.4	117.6	117.6
167.5°	105.2	109.3	111.4	115.5	115.5
170°	105.2	107.2	111.4	113.4	113.4
172.5°	103.1	107.2	109.3	113.4	113.4
175°	103.1	105.2	107.2	109.3	111.4
177.5°	99.0	105.2	107.2	109.3	107.2
180°	101.1	101.1	101.1	101.1	101.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	169.1	162.9	239.2	325.9	352.7
110°	179.4	165.0	245.4	332.1	365.1



(END OF REPORT)