

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: P520644

Luminaire Tested: **8WSLA-100-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: P520644
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-L935-UPL8-UNV-U
Description: 8 FOOT, 2000 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

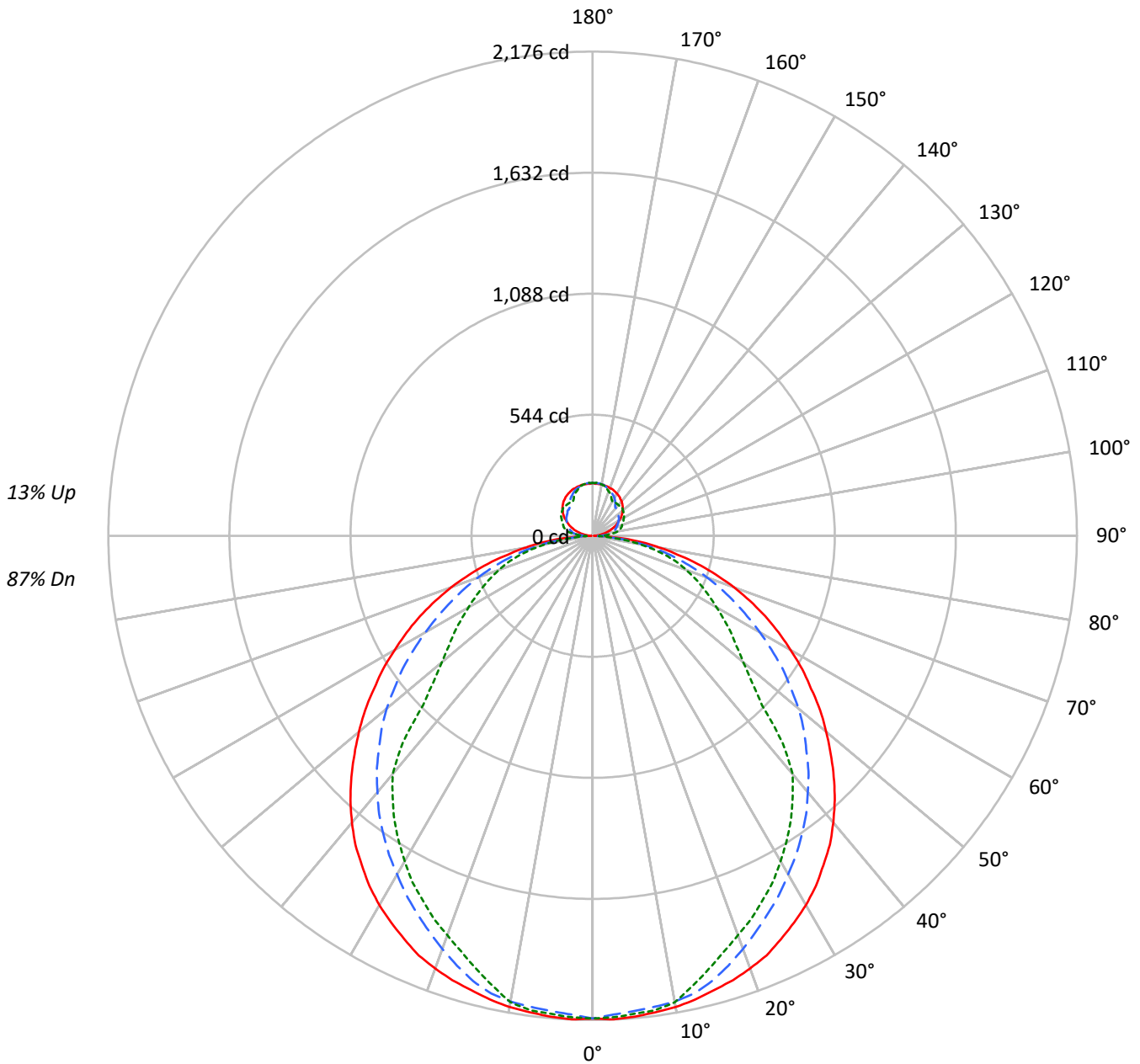
Lumens per Lamp: N/A
Luminaire Lumens: 6751.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.4
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									
RC	80									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°	5838	5838	5838
5°	5860	5792	5826
10°	5876	5808	5817
15°	5887	5774	5617
20°	5926	5658	5470
25°	5940	5551	5366
30°	5955	5460	5247
35°	5937	5383	5106
40°	5910	5285	4912
45°	5832	5167	4098
50°	5736	5057	3698
55°	5623	4891	3559
60°	5527	4670	3461
65°	5445	4472	3458
70°	5305	4297	3511
75°	5062	4089	3537
80°	4740	3676	3288
85°	4338	2603	2217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	3.0
10°-20°	583.8	8.6
20°-30°	872.4	12.9
30°-40°	1041.4	15.4
40°-50°	1041.5	15.4
50°-60°	901.4	13.4
60°-70°	691.8	10.2
70°-80°	423.9	6.3
80°-90°	119.3	1.8
90°-100°	67.4	1.0
100°-110°	107.1	1.6
110°-120°	125.2	1.9
120°-130°	135.1	2.0
130°-140°	133.2	2.0
140°-150°	117.8	1.7
150°-160°	96.9	1.4
160°-170°	64.9	1.0
170°-180°	22.6	0.3
0°-30°	1661.6	24.6
0°-40°	2703.0	40.0
0°-60°	4645.8	68.8
0°-90°	5880.8	87.1
90°-120°	299.7	4.4
90°-150°	685.7	10.2
90°-180°	870.0	12.9
0°-180°	6751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2169	2169	2169	2169	2169	
5°	2169	2163	2144	2160	2157	206
15°	2113	2110	2072	2035	2016	598
25°	2001	1976	1870	1820	1807	923
35°	1807	1760	1639	1579	1554	1132
45°	1532	1489	1358	1236	1077	1182
55°	1199	1170	1042	833	758	1074
65°	855	824	702	565	543	845
75°	487	462	393	340	340	514
85°	140	116	84	72	72	147
90°	6	22	34	44	47	10
95°	25	53	72	75	75	25
105°	72	75	106	125	131	75
115°	119	100	125	144	153	116
125°	159	128	144	165	172	142
135°	190	172	159	175	184	147
145°	212	203	178	175	181	132
155°	225	222	209	200	197	104
165°	231	234	228	228	228	66
175°	234	237	237	240	240	22
180°	237	237	237	237	237	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2169.3	2169.3	2169.3	2169.3	2169.3
2.5°	2175.5	2169.3	2153.6	2169.3	2166.1
5°	2169.3	2163.0	2144.3	2159.9	2156.8
7.5°	2159.9	2153.6	2134.9	2153.6	2150.5
10°	2150.5	2144.3	2125.6	2138.0	2128.7
12.5°	2134.9	2128.7	2106.8	2091.2	2072.5
15°	2113.1	2110.0	2072.5	2035.0	2016.3
17.5°	2094.3	2085.0	2025.7	1982.0	1960.1
20°	2069.4	2053.8	1975.7	1925.8	1910.2
22.5°	2041.3	2016.3	1922.7	1875.9	1863.4
25°	2000.7	1975.7	1869.6	1819.7	1807.2
27.5°	1960.1	1928.9	1816.6	1766.6	1754.1
30°	1916.4	1872.7	1757.3	1710.4	1688.6
32.5°	1866.5	1822.8	1701.1	1648.0	1623.0
35°	1807.2	1760.4	1638.6	1579.3	1554.4
37.5°	1751.0	1701.1	1576.2	1510.7	1476.3
40°	1682.3	1632.4	1504.4	1432.6	1398.3
42.5°	1610.6	1563.7	1435.8	1348.4	1264.1
45°	1532.5	1488.8	1357.7	1236.0	1076.8
47.5°	1451.4	1413.9	1285.9	1120.5	967.6
50°	1370.2	1332.8	1207.9	1011.3	883.3
52.5°	1289.1	1257.9	1120.5	920.8	814.6
55°	1198.6	1170.5	1042.5	833.4	758.5
57.5°	1117.4	1089.3	952.0	761.6	699.2
60°	1026.9	1001.9	867.7	689.8	643.0
62.5°	942.6	914.5	783.4	627.4	593.0
65°	855.2	824.0	702.3	564.9	543.1
67.5°	764.7	733.5	624.2	508.8	496.3
70°	674.2	649.2	546.2	452.6	446.3
72.5°	580.5	552.5	468.2	399.5	399.5
75°	486.9	461.9	393.3	340.2	340.2
77.5°	390.2	377.7	315.2	277.8	280.9
80°	305.9	290.3	237.2	212.2	212.2
82.5°	224.7	206.0	159.2	140.5	146.7
85°	140.5	115.5	84.3	71.8	71.8
87.5°	43.7	34.3	25.0	28.1	28.1
90°	6.2	21.8	34.3	43.7	46.8
92.5°	15.6	40.6	49.9	59.3	62.4
95°	25.0	53.1	71.8	74.9	74.9
97.5°	34.3	59.3	87.4	99.9	99.9
100°	46.8	62.4	93.6	112.4	115.5
102.5°	59.3	68.7	99.9	118.6	124.8
105°	71.8	74.9	106.1	124.8	131.1



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CATALOG NUMBER: 8WSLA-100-L935-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.1	93.6	118.6	140.5	146.7
115°	118.6	99.9	124.8	143.6	152.9
117.5°	128.0	109.2	131.1	149.8	156.1
120°	137.3	115.5	134.2	156.1	162.3
122.5°	149.8	121.7	140.5	159.2	168.5
125°	159.2	128.0	143.6	165.4	171.7
127.5°	168.5	140.5	146.7	168.5	174.8
130°	174.8	152.9	149.8	171.7	177.9
132.5°	184.2	162.3	152.9	174.8	181.0
135°	190.4	171.7	159.2	174.8	184.2
137.5°	196.6	181.0	159.2	174.8	181.0
140°	202.9	190.4	162.3	174.8	181.0
142.5°	206.0	196.6	165.4	174.8	181.0
145°	212.2	202.9	177.9	174.8	181.0
147.5°	215.4	209.1	187.3	174.8	181.0
150°	218.5	215.4	196.6	177.9	177.9
152.5°	221.6	218.5	202.9	190.4	184.2
155°	224.7	221.6	209.1	199.8	196.6
157.5°	227.8	227.8	215.4	209.1	206.0
160°	227.8	231.0	221.6	215.4	212.2
162.5°	231.0	234.1	224.7	221.6	218.5
165°	231.0	234.1	227.8	227.8	227.8
167.5°	234.1	237.2	234.1	231.0	231.0
170°	234.1	237.2	234.1	234.1	234.1
172.5°	234.1	237.2	237.2	237.2	237.2
175°	234.1	237.2	237.2	240.3	240.3
177.5°	234.1	237.2	237.2	237.2	237.2
180°	237.2	237.2	237.2	237.2	237.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	84.3	81.2	109.2	131.1	137.3
110°	93.6	87.4	115.5	134.2	140.5



(END OF REPORT)