

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: P520782

Luminaire Tested: **8WSLA-75-L850-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: P520782
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-75-L850-UPL8-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

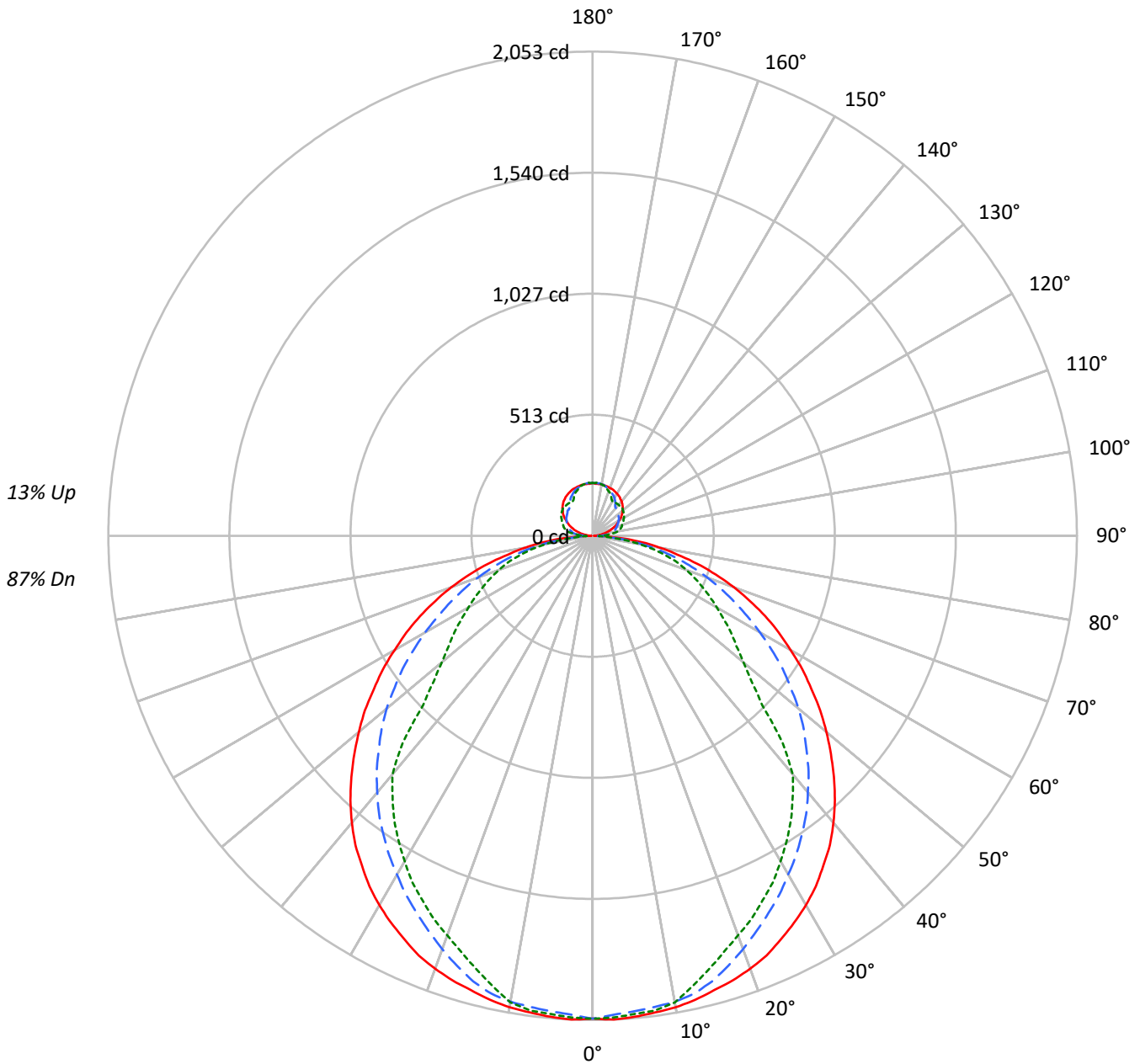
Lumens per Lamp: N/A
Luminaire Lumens: 6372.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 46.6
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	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°	5510	5510	5510
5°	5531	5467	5499
10°	5546	5482	5490
15°	5556	5450	5302
20°	5593	5340	5163
25°	5607	5240	5065
30°	5620	5154	4952
35°	5603	5081	4820
40°	5578	4988	4636
45°	5505	4877	3868
50°	5414	4773	3490
55°	5308	4617	3359
60°	5216	4408	3266
65°	5140	4221	3264
70°	5006	4057	3315
75°	4779	3859	3339
80°	4474	3470	3104
85°	4094	2455	2093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.8	3.0
10°-20°	551.1	8.6
20°-30°	823.4	12.9
30°-40°	982.9	15.4
40°-50°	983.0	15.4
50°-60°	850.7	13.4
60°-70°	653.0	10.2
70°-80°	400.1	6.3
80°-90°	112.6	1.8
90°-100°	63.7	1.0
100°-110°	101.0	1.6
110°-120°	118.1	1.9
120°-130°	127.5	2.0
130°-140°	125.7	2.0
140°-150°	111.2	1.7
150°-160°	91.5	1.4
160°-170°	61.2	1.0
170°-180°	21.3	0.3
0°-30°	1568.3	24.6
0°-40°	2551.2	40.0
0°-60°	4385.0	68.8
0°-90°	5550.7	87.1
90°-120°	282.9	4.4
90°-150°	647.3	10.2
90°-180°	821.0	12.9
0°-180°	6372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2048	2048	2048	2048	2048	
5°	2048	2042	2024	2039	2036	195
15°	1994	1992	1956	1921	1903	564
25°	1888	1865	1765	1718	1706	871
35°	1706	1662	1547	1491	1467	1068
45°	1446	1405	1282	1167	1016	1115
55°	1131	1105	984	787	716	1014
65°	807	778	663	533	513	797
75°	460	436	371	321	321	485
85°	133	109	80	68	68	139
90°	6	21	32	41	44	9
95°	24	50	68	71	71	23
105°	68	71	100	118	124	71
115°	112	94	118	136	144	109
125°	150	121	136	156	162	134
135°	180	162	150	165	174	139
145°	200	192	168	165	171	125
155°	212	209	197	188	186	98
165°	218	221	215	215	215	62
175°	221	224	224	227	227	21
180°	224	224	224	224	224	



TEST NUMBER: P520782

CATALOG NUMBER: 8WSLA-75-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2047.5	2047.5	2047.5	2047.5	2047.5
2.5°	2053.4	2047.5	2032.7	2047.5	2044.5
5°	2047.5	2041.6	2023.9	2038.6	2035.7
7.5°	2038.6	2032.7	2015.1	2032.7	2029.8
10°	2029.8	2023.9	2006.2	2018.0	2009.2
12.5°	2015.1	2009.2	1988.6	1973.8	1956.1
15°	1994.4	1991.5	1956.1	1920.8	1903.1
17.5°	1976.8	1967.9	1912.0	1870.7	1850.1
20°	1953.2	1938.5	1864.8	1817.7	1803.0
22.5°	1926.7	1903.1	1814.7	1770.5	1758.8
25°	1888.4	1864.8	1764.7	1717.5	1705.7
27.5°	1850.1	1820.6	1714.6	1667.4	1655.7
30°	1808.8	1767.6	1658.6	1614.4	1593.8
32.5°	1761.7	1720.5	1605.6	1555.5	1531.9
35°	1705.7	1661.5	1546.7	1490.7	1467.1
37.5°	1652.7	1605.6	1487.7	1425.9	1393.5
40°	1587.9	1540.8	1420.0	1352.2	1319.8
42.5°	1520.1	1475.9	1355.2	1272.7	1193.1
45°	1446.5	1405.2	1281.5	1166.6	1016.4
47.5°	1369.9	1334.5	1213.8	1057.6	913.3
50°	1293.3	1257.9	1140.1	954.5	833.7
52.5°	1216.7	1187.2	1057.6	869.1	768.9
55°	1131.3	1104.8	984.0	786.6	715.9
57.5°	1054.7	1028.2	898.5	718.8	659.9
60°	969.2	945.7	819.0	651.1	606.9
62.5°	889.7	863.2	739.4	592.1	559.7
65°	807.2	777.7	662.9	533.2	512.6
67.5°	721.8	692.3	589.2	480.2	468.4
70°	636.3	612.8	515.6	427.2	421.3
72.5°	548.0	521.4	441.9	377.1	377.1
75°	459.6	436.0	371.2	321.1	321.1
77.5°	368.3	356.5	297.5	262.2	265.1
80°	288.7	274.0	223.9	200.3	200.3
82.5°	212.1	194.4	150.2	132.6	138.5
85°	132.6	109.0	79.5	67.8	67.8
87.5°	41.2	32.4	23.6	26.5	26.5
90°	5.9	20.6	32.4	41.2	44.2
92.5°	14.7	38.3	47.1	56.0	58.9
95°	23.6	50.1	67.8	70.7	70.7
97.5°	32.4	56.0	82.5	94.3	94.3
100°	44.2	58.9	88.4	106.1	109.0
102.5°	56.0	64.8	94.3	111.9	117.8
105°	67.8	70.7	100.2	117.8	123.7



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CATALOG NUMBER: 8WSLA-75-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	100.2	88.4	111.9	132.6	138.5
115°	111.9	94.3	117.8	135.5	144.4
117.5°	120.8	103.1	123.7	141.4	147.3
120°	129.6	109.0	126.7	147.3	153.2
122.5°	141.4	114.9	132.6	150.2	159.1
125°	150.2	120.8	135.5	156.1	162.0
127.5°	159.1	132.6	138.5	159.1	165.0
130°	165.0	144.4	141.4	162.0	167.9
132.5°	173.8	153.2	144.4	165.0	170.9
135°	179.7	162.0	150.2	165.0	173.8
137.5°	185.6	170.9	150.2	165.0	170.9
140°	191.5	179.7	153.2	165.0	170.9
142.5°	194.4	185.6	156.1	165.0	170.9
145°	200.3	191.5	167.9	165.0	170.9
147.5°	203.3	197.4	176.8	165.0	170.9
150°	206.2	203.3	185.6	167.9	167.9
152.5°	209.2	206.2	191.5	179.7	173.8
155°	212.1	209.2	197.4	188.5	185.6
157.5°	215.1	215.1	203.3	197.4	194.4
160°	215.1	218.0	209.2	203.3	200.3
162.5°	218.0	221.0	212.1	209.2	206.2
165°	218.0	221.0	215.1	215.1	215.1
167.5°	221.0	223.9	221.0	218.0	218.0
170°	221.0	223.9	221.0	221.0	221.0
172.5°	221.0	223.9	223.9	223.9	223.9
175°	221.0	223.9	223.9	226.8	226.8
177.5°	221.0	223.9	223.9	223.9	223.9
180°	223.9	223.9	223.9	223.9	223.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	79.5	76.6	103.1	123.7	129.6
110°	88.4	82.5	109.0	126.7	132.6



(END OF REPORT)