

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: P520494

Luminaire Tested: **4WSLA-125-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: P520494
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: 4WSLA-125-L850-UPL8-UNV-U
Description: 4 FOOT, 1250 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

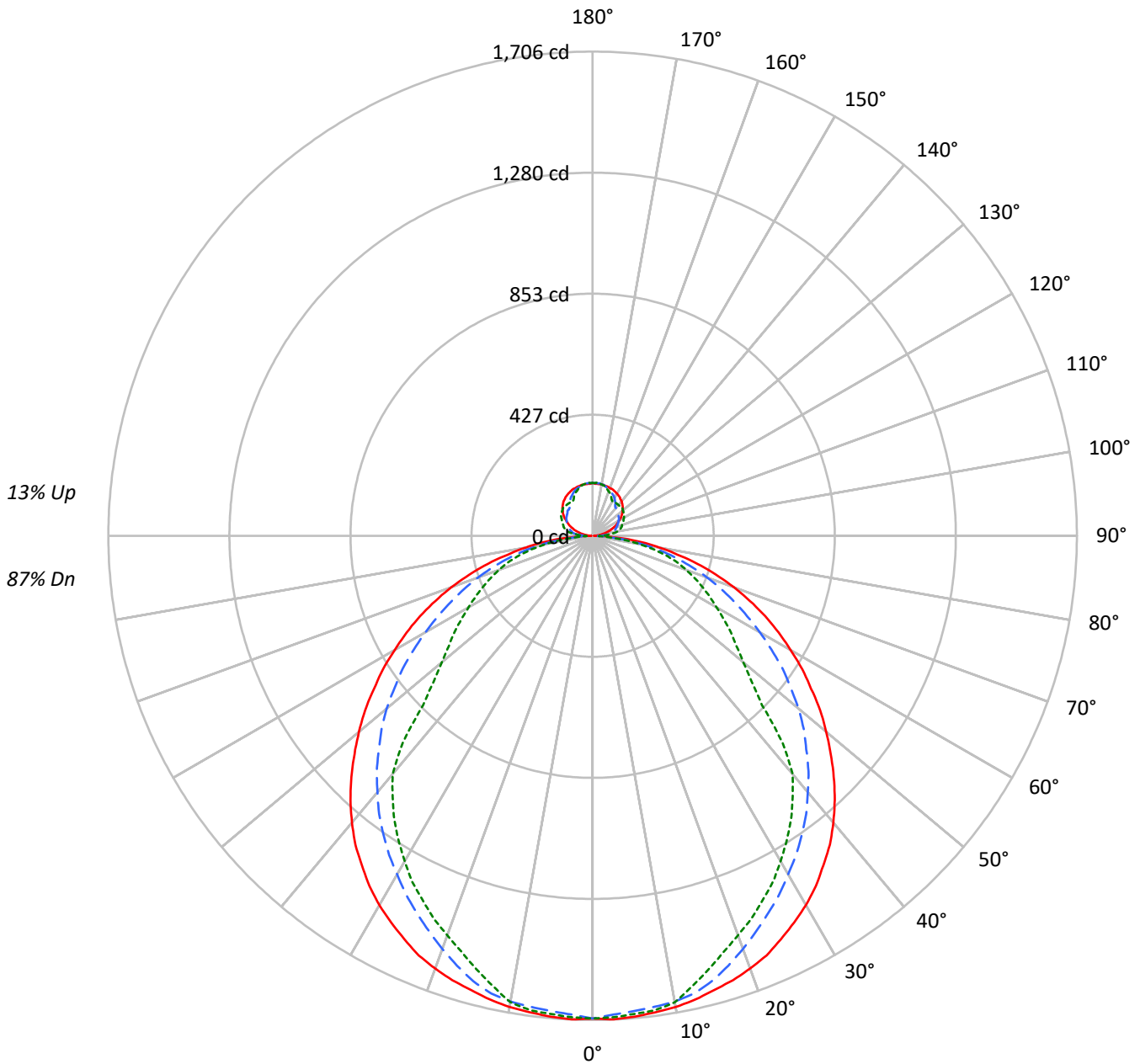
Lumens per Lamp: N/A
Luminaire Lumens: 5293.0 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.8
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

TEST NUMBER: P520494

CATALOG NUMBER: 4WSLA-125-L850-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520494

CATALOG NUMBER: 4WSLA-125-L850-UPL8-UNV-U

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°	9154	9154	9154
5°	9189	9083	9136
10°	9215	9107	9121
15°	9231	9054	8808
20°	9293	8872	8578
25°	9315	8704	8414
30°	9337	8562	8227
35°	9309	8441	8007
40°	9267	8287	7702
45°	9145	8102	6426
50°	8995	7929	5798
55°	8817	7669	5580
60°	8666	7323	5426
65°	8539	7012	5422
70°	8318	6740	5506
75°	7939	6411	5546
80°	7432	5765	5157
85°	6799	4082	3477



TEST NUMBER: P520494

CATALOG NUMBER: 4WSLA-125-L850-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	3.0
10°-20°	457.8	8.6
20°-30°	684.0	12.9
30°-40°	816.5	15.4
40°-50°	816.5	15.4
50°-60°	706.7	13.4
60°-70°	542.4	10.2
70°-80°	332.4	6.3
80°-90°	93.6	1.8
90°-100°	52.9	1.0
100°-110°	83.9	1.6
110°-120°	98.1	1.9
120°-130°	105.9	2.0
130°-140°	104.4	2.0
140°-150°	92.4	1.7
150°-160°	76.0	1.4
160°-170°	50.9	1.0
170°-180°	17.7	0.3
0°-30°	1302.7	24.6
0°-40°	2119.2	40.0
0°-60°	3642.4	68.8
0°-90°	4610.7	87.1
90°-120°	234.9	4.4
90°-150°	537.6	10.2
90°-180°	682.0	12.9
0°-180°	5293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1701	1696	1681	1693	1691	162
15°	1657	1654	1625	1596	1581	469
25°	1569	1549	1466	1427	1417	724
35°	1417	1380	1285	1238	1219	887
45°	1202	1167	1064	969	844	926
55°	940	918	817	653	595	842
65°	670	646	551	443	426	662
75°	382	362	308	267	267	403
85°	110	90	66	56	56	115
90°	5	17	27	34	37	8
95°	20	42	56	59	59	19
105°	56	59	83	98	103	59
115°	93	78	98	113	120	91
125°	125	100	113	130	135	111
135°	149	135	125	137	144	115
145°	166	159	140	137	142	104
155°	176	174	164	157	154	81
165°	181	184	179	179	179	51
175°	184	186	186	188	188	18
180°	186	186	186	186	186	



TEST NUMBER: P520494

CATALOG NUMBER: 4WSLA-125-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1700.8	1700.8	1700.8	1700.8	1700.8
2.5°	1705.7	1700.8	1688.5	1700.8	1698.3
5°	1700.8	1695.9	1681.2	1693.4	1691.0
7.5°	1693.4	1688.5	1673.8	1688.5	1686.1
10°	1686.1	1681.2	1666.5	1676.3	1669.0
12.5°	1673.8	1669.0	1651.8	1639.6	1624.9
15°	1656.7	1654.3	1624.9	1595.5	1580.9
17.5°	1642.0	1634.7	1588.2	1553.9	1536.8
20°	1622.5	1610.2	1549.0	1509.9	1497.7
22.5°	1600.4	1580.9	1507.4	1470.7	1460.9
25°	1568.6	1549.0	1465.8	1426.7	1416.9
27.5°	1536.8	1512.3	1424.2	1385.1	1375.3
30°	1502.5	1468.3	1377.7	1341.0	1323.9
32.5°	1463.4	1429.1	1333.7	1292.1	1272.5
35°	1416.9	1380.2	1284.8	1238.3	1218.7
37.5°	1372.8	1333.7	1235.8	1184.4	1157.5
40°	1319.0	1279.9	1179.5	1123.2	1096.3
42.5°	1262.7	1226.0	1125.7	1057.2	991.1
45°	1201.5	1167.3	1064.5	969.1	844.3
47.5°	1137.9	1108.6	1008.2	878.5	758.6
50°	1074.3	1044.9	947.0	792.9	692.5
52.5°	1010.7	986.2	878.5	721.9	638.7
55°	939.7	917.7	817.3	653.4	594.7
57.5°	876.1	854.1	746.4	597.1	548.2
60°	805.1	785.5	680.3	540.8	504.1
62.5°	739.0	717.0	614.2	491.9	465.0
65°	670.5	646.0	550.6	442.9	425.8
67.5°	599.6	575.1	489.4	398.9	389.1
70°	528.6	509.0	428.3	354.8	349.9
72.5°	455.2	433.1	367.1	313.2	313.2
75°	381.8	362.2	308.3	266.7	266.7
77.5°	305.9	296.1	247.2	217.8	220.2
80°	239.8	227.6	186.0	166.4	166.4
82.5°	176.2	161.5	124.8	110.1	115.0
85°	110.1	90.5	66.1	56.3	56.3
87.5°	34.3	26.9	19.6	22.0	22.0
90°	4.9	17.1	26.9	34.3	36.7
92.5°	12.2	31.8	39.2	46.5	48.9
95°	19.6	41.6	56.3	58.7	58.7
97.5°	26.9	46.5	68.5	78.3	78.3
100°	36.7	48.9	73.4	88.1	90.5
102.5°	46.5	53.8	78.3	93.0	97.9
105°	56.3	58.7	83.2	97.9	102.8



TEST NUMBER: P520494

CATALOG NUMBER: 4WSLA-125-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	83.2	73.4	93.0	110.1	115.0
115°	93.0	78.3	97.9	112.6	119.9
117.5°	100.3	85.7	102.8	117.5	122.4
120°	107.7	90.5	105.2	122.4	127.3
122.5°	117.5	95.4	110.1	124.8	132.1
125°	124.8	100.3	112.6	129.7	134.6
127.5°	132.1	110.1	115.0	132.1	137.0
130°	137.0	119.9	117.5	134.6	139.5
132.5°	144.4	127.3	119.9	137.0	141.9
135°	149.3	134.6	124.8	137.0	144.4
137.5°	154.2	141.9	124.8	137.0	141.9
140°	159.1	149.3	127.3	137.0	141.9
142.5°	161.5	154.2	129.7	137.0	141.9
145°	166.4	159.1	139.5	137.0	141.9
147.5°	168.9	164.0	146.8	137.0	141.9
150°	171.3	168.9	154.2	139.5	139.5
152.5°	173.7	171.3	159.1	149.3	144.4
155°	176.2	173.7	164.0	156.6	154.2
157.5°	178.6	178.6	168.9	164.0	161.5
160°	178.6	181.1	173.7	168.9	166.4
162.5°	181.1	183.5	176.2	173.7	171.3
165°	181.1	183.5	178.6	178.6	178.6
167.5°	183.5	186.0	183.5	181.1	181.1
170°	183.5	186.0	183.5	183.5	183.5
172.5°	183.5	186.0	186.0	186.0	186.0
175°	183.5	186.0	186.0	188.4	188.4
177.5°	183.5	186.0	186.0	186.0	186.0
180°	186.0	186.0	186.0	186.0	186.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	66.1	63.6	85.7	102.8	107.7
110°	73.4	68.5	90.5	105.2	110.1



(END OF REPORT)