

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: P520502

Luminaire Tested: **4WSLA-125-L940-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: P520502  
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: 4WSLA-125-L940-UPL15-UNV-U  
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

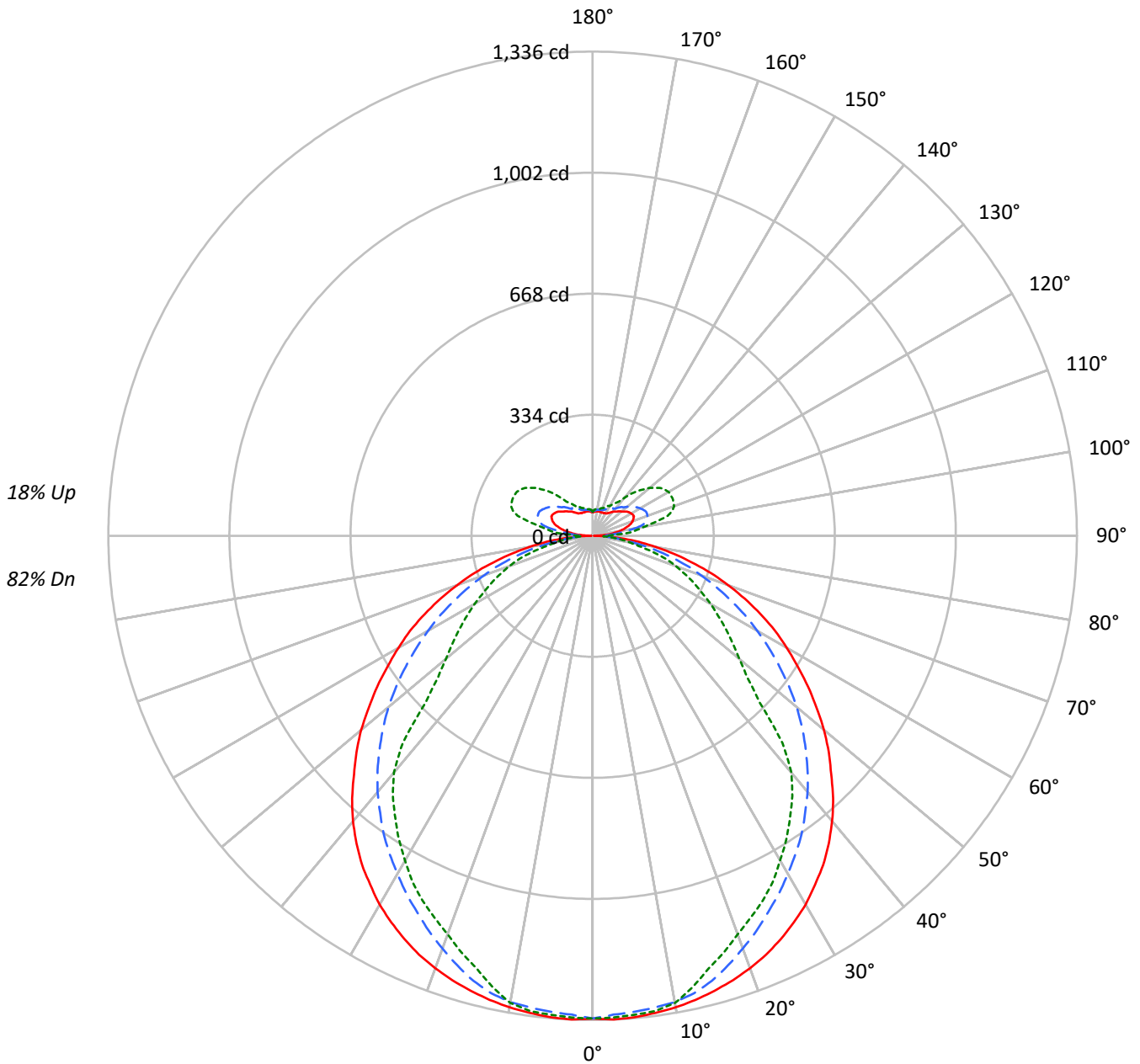
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4314.0 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.16 / 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 (A<sub>in</sub>): 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: P520502  
CATALOG NUMBER: 4WSLA-125-L940-UPL15-UNV-U

### 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	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°	7169	7169	7169
5°	7204	7123	7167
10°	7220	7139	7154
15°	7241	7083	6887
20°	7273	6940	6700
25°	7292	6803	6595
30°	7304	6691	6431
35°	7287	6604	6240
40°	7223	6483	5989
45°	7085	6323	4966
50°	6979	6153	4423
55°	6807	5907	4208
60°	6660	5642	4043
65°	6504	5333	3922
70°	6250	4996	3847
75°	5899	4579	3539
80°	5402	3852	3140
85°	4841	3335	3168



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.2	2.9
10°-20°	358.6	8.3
20°-30°	535.2	12.4
30°-40°	637.7	14.8
40°-50°	634.3	14.7
50°-60°	543.6	12.6
60°-70°	409.4	9.5
70°-80°	237.1	5.5
80°-90°	71.3	1.7
90°-100°	76.5	1.8
100°-110°	157.1	3.6
110°-120°	166.1	3.9
120°-130°	138.6	3.2
130°-140°	96.8	2.2
140°-150°	60.3	1.4
150°-160°	37.4	0.9
160°-170°	21.0	0.5
170°-180°	6.8	0.2
0°-30°	1020.1	23.6
0°-40°	1657.7	38.4
0°-60°	2835.6	65.7
0°-90°	3553.4	82.4
90°-120°	399.7	9.3
90°-150°	695.4	16.1
90°-180°	761.0	17.6
0°-180°	4314.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1333	1329	1318	1328	1327	127
15°	1300	1298	1271	1250	1236	367
25°	1228	1210	1146	1117	1110	566
35°	1109	1079	1005	966	950	693
45°	931	908	831	748	652	720
55°	726	715	630	500	448	649
65°	511	498	419	326	308	505
75°	284	274	220	176	170	301
85°	78	69	54	51	51	84
90°	4	19	32	40	43	8
95°	43	58	66	97	105	41
105°	101	105	151	203	215	105
115°	126	107	161	222	243	122
125°	116	103	139	204	230	103
135°	95	103	112	151	174	74
145°	77	89	97	104	111	49
155°	70	74	80	86	88	32
165°	69	72	74	77	77	20
175°	68	69	70	72	73	6
180°	66	66	66	66	66	



TEST NUMBER: P520502

CATALOG NUMBER: 4WSLA-125-L940-UPL15-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1336.1	1333.4	1322.6	1333.4	1330.7
5°	1333.4	1329.3	1318.5	1328.0	1326.6
7.5°	1328.0	1325.3	1313.1	1323.9	1322.6
10°	1321.2	1317.2	1306.4	1314.5	1309.1
12.5°	1311.8	1309.1	1292.9	1286.1	1275.3
15°	1299.6	1298.3	1271.3	1249.6	1236.1
17.5°	1286.1	1280.7	1242.9	1217.2	1205.1
20°	1269.9	1261.8	1211.8	1182.1	1169.9
22.5°	1251.0	1238.8	1180.7	1152.4	1140.2
25°	1228.0	1210.5	1145.6	1117.2	1110.5
27.5°	1202.4	1182.1	1113.2	1084.8	1076.7
30°	1175.3	1149.7	1076.7	1049.7	1034.8
32.5°	1141.6	1117.2	1041.6	1010.5	994.3
35°	1109.1	1079.4	1005.1	965.9	949.7
37.5°	1070.0	1040.2	963.2	924.1	905.1
40°	1028.1	998.4	922.7	876.8	852.5
42.5°	982.1	955.1	878.1	822.7	775.4
45°	930.8	907.8	830.8	748.4	652.5
47.5°	883.5	861.9	783.6	676.8	578.2
50°	833.5	813.3	734.9	609.3	528.2
52.5°	778.2	763.3	682.2	551.2	486.3
55°	725.5	714.7	629.5	499.9	448.5
57.5°	670.1	659.3	576.9	451.2	410.7
60°	618.7	607.9	524.2	408.0	375.6
62.5°	567.4	552.5	472.8	366.1	339.1
65°	510.7	498.5	418.8	325.6	308.0
67.5°	453.9	443.1	368.8	287.8	275.6
70°	397.2	387.7	317.5	251.3	244.5
72.5°	341.8	329.6	271.5	214.8	212.1
75°	283.7	274.2	220.2	175.6	170.2
77.5°	228.3	220.2	172.9	133.7	129.7
80°	174.3	166.2	124.3	97.3	101.3
82.5°	128.3	117.5	83.8	75.7	79.7
85°	78.4	68.9	54.0	51.3	51.3
87.5°	27.0	25.7	24.3	28.4	29.7
90°	4.1	18.9	32.4	40.5	43.2
92.5°	23.0	33.8	44.6	52.7	55.4
95°	43.2	58.1	66.2	97.3	105.4
97.5°	59.4	77.0	86.5	114.8	122.9
100°	75.7	91.9	121.6	136.4	145.9
102.5°	89.2	101.3	143.2	172.9	178.3
105°	101.3	105.4	151.3	202.6	214.8



TEST NUMBER: P520502

CATALOG NUMBER: 4WSLA-125-L940-UPL15-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	121.6	108.1	162.1	220.2	241.8
115°	125.6	106.7	160.8	221.6	243.2
117.5°	125.6	106.7	156.7	221.6	243.2
120°	122.9	108.1	151.3	218.9	241.8
122.5°	120.2	105.4	145.9	213.5	236.4
125°	116.2	102.7	139.1	204.0	229.7
127.5°	109.4	105.4	132.4	191.8	217.5
130°	104.0	106.7	124.3	179.7	205.3
132.5°	100.0	104.0	116.2	166.2	189.1
135°	94.6	102.7	112.1	151.3	174.3
137.5°	90.5	98.6	105.4	137.8	156.7
140°	86.5	95.9	98.6	120.2	136.4
142.5°	81.1	91.9	93.2	112.1	118.9
145°	77.0	89.2	97.3	104.0	110.8
147.5°	73.0	83.8	94.6	95.9	102.7
150°	71.6	78.4	90.5	91.9	94.6
152.5°	70.2	75.7	83.8	91.9	93.2
155°	70.2	74.3	79.7	86.5	87.8
157.5°	68.9	74.3	77.0	82.4	83.8
160°	68.9	73.0	75.7	79.7	81.1
162.5°	68.9	73.0	74.3	78.4	79.7
165°	68.9	71.6	74.3	77.0	77.0
167.5°	68.9	71.6	73.0	75.7	75.7
170°	68.9	70.2	73.0	74.3	74.3
172.5°	67.5	70.2	71.6	74.3	74.3
175°	67.5	68.9	70.2	71.6	73.0
177.5°	64.8	68.9	70.2	71.6	70.2
180°	66.2	66.2	66.2	66.2	66.2



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	110.8	106.7	156.7	213.5	231.0
110°	117.5	108.1	160.8	217.5	239.1



(END OF REPORT)