

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: P520496

Luminaire Tested: **4WSLA-125-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: P520496  
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-L930-UPL15-UNV-U  
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

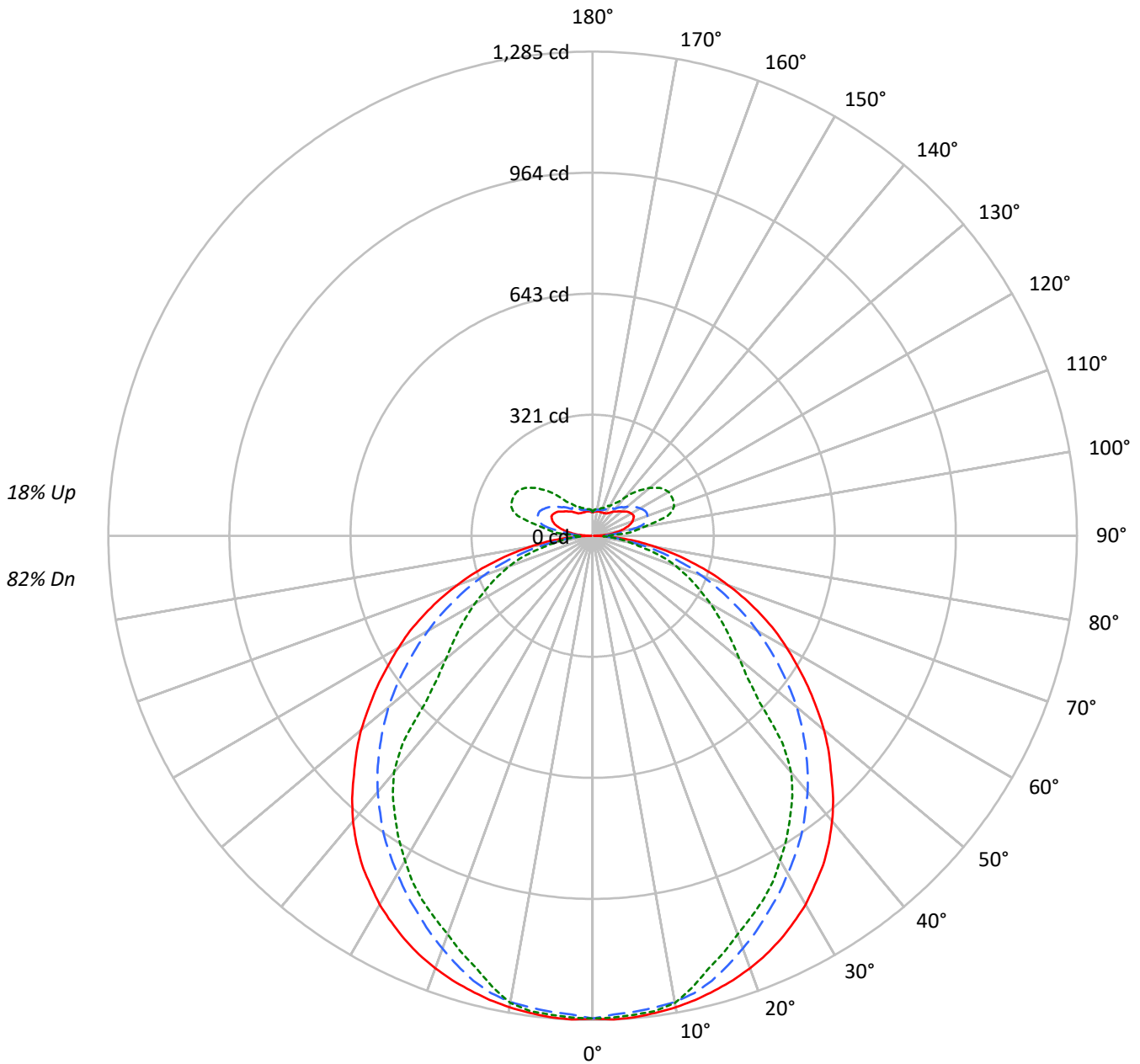
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4149.0 lumens  
Efficiency: N/A  
Efficacy: 106.9 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

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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	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°	6895	6895	6895
5°	6928	6851	6893
10°	6944	6866	6880
15°	6964	6812	6624
20°	6995	6675	6444
25°	7014	6543	6342
30°	7025	6435	6185
35°	7008	6351	6001
40°	6947	6235	5760
45°	6814	6082	4777
50°	6713	5918	4253
55°	6547	5682	4048
60°	6406	5426	3888
65°	6254	5130	3772
70°	6011	4804	3701
75°	5675	4404	3404
80°	5195	3704	3019
85°	4656	3211	3051



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.4	2.9
10°-20°	344.9	8.3
20°-30°	514.7	12.4
30°-40°	613.3	14.8
40°-50°	610.0	14.7
50°-60°	522.8	12.6
60°-70°	393.8	9.5
70°-80°	228.0	5.5
80°-90°	68.6	1.7
90°-100°	73.6	1.8
100°-110°	151.1	3.6
110°-120°	159.8	3.9
120°-130°	133.3	3.2
130°-140°	93.1	2.2
140°-150°	58.0	1.4
150°-160°	35.9	0.9
160°-170°	20.2	0.5
170°-180°	6.5	0.2
0°-30°	981.0	23.6
0°-40°	1594.3	38.4
0°-60°	2727.2	65.7
0°-90°	3417.5	82.4
90°-120°	384.4	9.3
90°-150°	668.7	16.1
90°-180°	731.0	17.6
0°-180°	4149.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1282	1278	1268	1277	1276	122
15°	1250	1249	1223	1202	1189	353
25°	1181	1164	1102	1074	1068	545
35°	1067	1038	967	929	913	666
45°	895	873	799	720	628	692
55°	698	687	606	481	431	624
65°	491	479	403	313	296	486
75°	273	264	212	169	164	289
85°	75	66	52	49	49	80
90°	4	18	31	39	42	8
95°	42	56	64	94	101	40
105°	97	101	146	195	207	101
115°	121	103	155	213	234	118
125°	112	99	134	196	221	99
135°	91	99	108	146	168	71
145°	74	86	94	100	106	47
155°	68	72	77	83	84	31
165°	66	69	72	74	74	19
175°	65	66	68	69	70	6
180°	64	64	64	64	64	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1281.1	1281.1	1281.1	1281.1	1281.1
2.5°	1285.0	1282.4	1272.0	1282.4	1279.8
5°	1282.4	1278.5	1268.1	1277.2	1275.9
7.5°	1277.2	1274.6	1262.9	1273.3	1272.0
10°	1270.7	1266.8	1256.4	1264.2	1259.0
12.5°	1261.6	1259.0	1243.4	1236.9	1226.5
15°	1249.9	1248.6	1222.6	1201.8	1188.8
17.5°	1236.9	1231.7	1195.3	1170.7	1159.0
20°	1221.3	1213.5	1165.5	1136.9	1125.2
22.5°	1203.1	1191.4	1135.6	1108.3	1096.6
25°	1181.1	1164.2	1101.8	1074.5	1068.0
27.5°	1156.4	1136.9	1070.6	1043.3	1035.5
30°	1130.4	1105.7	1035.5	1009.5	995.3
32.5°	1097.9	1074.5	1001.7	971.9	956.3
35°	1066.7	1038.1	966.7	929.0	913.4
37.5°	1029.0	1000.5	926.4	888.7	870.5
40°	988.8	960.2	887.4	843.2	819.8
42.5°	944.6	918.6	844.5	791.3	745.8
45°	895.2	873.1	799.1	719.8	627.6
47.5°	849.7	828.9	753.6	650.9	556.1
50°	801.7	782.2	706.8	586.0	508.0
52.5°	748.4	734.1	656.1	530.1	467.7
55°	697.7	687.3	605.5	480.7	431.4
57.5°	644.4	634.1	554.8	434.0	395.0
60°	595.1	584.7	504.1	392.4	361.2
62.5°	545.7	531.4	454.8	352.1	326.1
65°	491.1	479.4	402.8	313.1	296.2
67.5°	436.6	426.2	354.7	276.7	265.1
70°	382.0	372.9	305.3	241.7	235.2
72.5°	328.7	317.0	261.2	206.6	204.0
75°	272.9	263.8	211.8	168.9	163.7
77.5°	219.6	211.8	166.3	128.6	124.7
80°	167.6	159.8	119.5	93.5	97.4
82.5°	123.4	113.0	80.6	72.8	76.7
85°	75.4	66.3	52.0	49.4	49.4
87.5°	26.0	24.7	23.4	27.3	28.6
90°	3.9	18.2	31.2	39.0	41.6
92.5°	22.1	32.5	42.9	50.7	53.3
95°	41.6	55.9	63.7	93.5	101.3
97.5°	57.2	74.1	83.2	110.4	118.2
100°	72.8	88.4	116.9	131.2	140.3
102.5°	85.8	97.4	137.7	166.3	171.5
105°	97.4	101.3	145.5	194.9	206.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	116.9	103.9	155.9	211.8	232.6
115°	120.8	102.6	154.6	213.1	233.9
117.5°	120.8	102.6	150.7	213.1	233.9
120°	118.2	103.9	145.5	210.5	232.6
122.5°	115.6	101.3	140.3	205.3	227.4
125°	111.7	98.7	133.8	196.2	220.9
127.5°	105.2	101.3	127.3	184.5	209.2
130°	100.0	102.6	119.5	172.8	197.5
132.5°	96.1	100.0	111.7	159.8	181.9
135°	91.0	98.7	107.8	145.5	167.6
137.5°	87.1	94.8	101.3	132.5	150.7
140°	83.2	92.2	94.8	115.6	131.2
142.5°	78.0	88.4	89.7	107.8	114.3
145°	74.1	85.8	93.5	100.0	106.5
147.5°	70.2	80.6	91.0	92.2	98.7
150°	68.9	75.4	87.1	88.4	91.0
152.5°	67.6	72.8	80.6	88.4	89.7
155°	67.6	71.5	76.7	83.2	84.5
157.5°	66.3	71.5	74.1	79.3	80.6
160°	66.3	70.2	72.8	76.7	78.0
162.5°	66.3	70.2	71.5	75.4	76.7
165°	66.3	68.9	71.5	74.1	74.1
167.5°	66.3	68.9	70.2	72.8	72.8
170°	66.3	67.6	70.2	71.5	71.5
172.5°	65.0	67.6	68.9	71.5	71.5
175°	65.0	66.3	67.6	68.9	70.2
177.5°	62.4	66.3	67.6	68.9	67.6
180°	63.7	63.7	63.7	63.7	63.7



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	106.5	102.6	150.7	205.3	222.2
110°	113.0	103.9	154.6	209.2	230.0



(END OF REPORT)