

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: P520497

Luminaire Tested: **4WSLA-125-L930-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: P520497
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-L930-UPL8-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

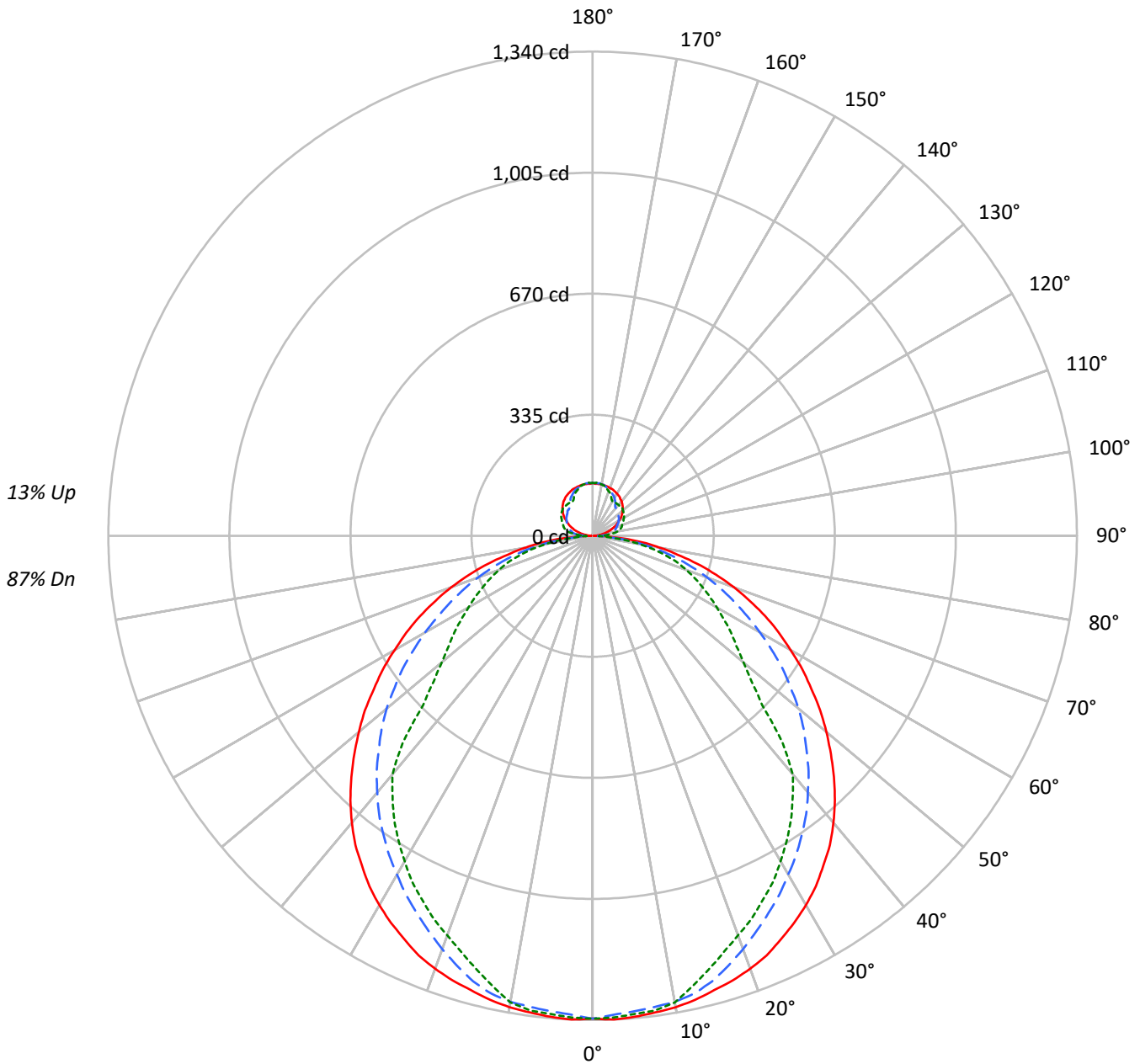
Lumens per Lamp: N/A
Luminaire Lumens: 4159.0 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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

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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°	7192	7192	7192
5°	7220	7137	7178
10°	7240	7156	7167
15°	7253	7114	6921
20°	7302	6971	6740
25°	7320	6840	6611
30°	7337	6728	6465
35°	7315	6633	6292
40°	7281	6511	6052
45°	7186	6366	5049
50°	7068	6230	4556
55°	6929	6026	4385
60°	6809	5754	4264
65°	6710	5509	4261
70°	6535	5295	4327
75°	6238	5038	4358
80°	5839	4528	4054
85°	5341	3205	2729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	3.0
10°-20°	359.7	8.6
20°-30°	537.4	12.9
30°-40°	641.6	15.4
40°-50°	641.6	15.4
50°-60°	555.3	13.4
60°-70°	426.2	10.2
70°-80°	261.2	6.3
80°-90°	73.5	1.8
90°-100°	41.5	1.0
100°-110°	65.9	1.6
110°-120°	77.1	1.9
120°-130°	83.2	2.0
130°-140°	82.0	2.0
140°-150°	72.6	1.7
150°-160°	59.7	1.4
160°-170°	40.0	1.0
170°-180°	13.9	0.3
0°-30°	1023.6	24.6
0°-40°	1665.2	40.0
0°-60°	2862.1	68.8
0°-90°	3622.9	87.1
90°-120°	184.6	4.4
90°-150°	422.4	10.2
90°-180°	536.0	12.9
0°-180°	4159.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1336	1332	1321	1331	1329	127
15°	1302	1300	1277	1254	1242	368
25°	1233	1217	1152	1121	1113	569
35°	1113	1084	1010	973	958	697
45°	944	917	836	762	663	728
55°	738	721	642	513	467	662
65°	527	508	433	348	335	520
75°	300	285	242	210	210	316
85°	86	71	52	44	44	90
90°	4	14	21	27	29	6
95°	15	33	44	46	46	15
105°	44	46	65	77	81	46
115°	73	62	77	88	94	71
125°	98	79	88	102	106	87
135°	117	106	98	108	113	90
145°	131	125	110	108	112	82
155°	138	136	129	123	121	64
165°	142	144	140	140	140	40
175°	144	146	146	148	148	14
180°	146	146	146	146	146	



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CATALOG NUMBER: 4WSLA-125-L930-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.4	1336.4	1336.4	1336.4	1336.4
2.5°	1340.2	1336.4	1326.8	1336.4	1334.5
5°	1336.4	1332.5	1321.0	1330.6	1328.7
7.5°	1330.6	1326.8	1315.2	1326.8	1324.8
10°	1324.8	1321.0	1309.5	1317.2	1311.4
12.5°	1315.2	1311.4	1297.9	1288.3	1276.8
15°	1301.8	1299.9	1276.8	1253.7	1242.2
17.5°	1290.2	1284.5	1247.9	1221.0	1207.6
20°	1274.9	1265.2	1217.2	1186.4	1176.8
22.5°	1257.5	1242.2	1184.5	1155.6	1147.9
25°	1232.6	1217.2	1151.8	1121.0	1113.3
27.5°	1207.6	1188.3	1119.1	1088.3	1080.6
30°	1180.6	1153.7	1082.6	1053.7	1040.3
32.5°	1149.9	1122.9	1048.0	1015.3	999.9
35°	1113.3	1084.5	1009.5	973.0	957.6
37.5°	1078.7	1048.0	971.0	930.7	909.5
40°	1036.4	1005.7	926.8	882.6	861.4
42.5°	992.2	963.4	884.5	830.7	778.8
45°	944.1	917.2	836.4	761.5	663.4
47.5°	894.1	871.1	792.2	690.3	596.1
50°	844.1	821.1	744.1	623.0	544.2
52.5°	794.1	774.9	690.3	567.2	501.9
55°	738.4	721.1	642.2	513.4	467.3
57.5°	688.4	671.1	586.5	469.2	430.7
60°	632.6	617.2	534.6	425.0	396.1
62.5°	580.7	563.4	482.6	386.5	365.3
65°	526.9	507.6	432.6	348.0	334.6
67.5°	471.1	451.9	384.6	313.4	305.7
70°	415.3	400.0	336.5	278.8	275.0
72.5°	357.7	340.3	288.4	246.1	246.1
75°	300.0	284.6	242.3	209.6	209.6
77.5°	240.4	232.7	194.2	171.1	173.1
80°	188.4	178.8	146.1	130.8	130.8
82.5°	138.4	126.9	98.1	86.5	90.4
85°	86.5	71.1	51.9	44.2	44.2
87.5°	26.9	21.2	15.4	17.3	17.3
90°	3.8	13.5	21.2	26.9	28.8
92.5°	9.6	25.0	30.8	36.5	38.5
95°	15.4	32.7	44.2	46.1	46.1
97.5°	21.2	36.5	53.8	61.5	61.5
100°	28.8	38.5	57.7	69.2	71.1
102.5°	36.5	42.3	61.5	73.1	76.9
105°	44.2	46.1	65.4	76.9	80.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.4	57.7	73.1	86.5	90.4
115°	73.1	61.5	76.9	88.5	94.2
117.5°	78.8	67.3	80.8	92.3	96.1
120°	84.6	71.1	82.7	96.1	100.0
122.5°	92.3	75.0	86.5	98.1	103.8
125°	98.1	78.8	88.5	101.9	105.8
127.5°	103.8	86.5	90.4	103.8	107.7
130°	107.7	94.2	92.3	105.8	109.6
132.5°	113.4	100.0	94.2	107.7	111.5
135°	117.3	105.8	98.1	107.7	113.4
137.5°	121.1	111.5	98.1	107.7	111.5
140°	125.0	117.3	100.0	107.7	111.5
142.5°	126.9	121.1	101.9	107.7	111.5
145°	130.8	125.0	109.6	107.7	111.5
147.5°	132.7	128.8	115.4	107.7	111.5
150°	134.6	132.7	121.1	109.6	109.6
152.5°	136.5	134.6	125.0	117.3	113.4
155°	138.4	136.5	128.8	123.1	121.1
157.5°	140.4	140.4	132.7	128.8	126.9
160°	140.4	142.3	136.5	132.7	130.8
162.5°	142.3	144.2	138.4	136.5	134.6
165°	142.3	144.2	140.4	140.4	140.4
167.5°	144.2	146.1	144.2	142.3	142.3
170°	144.2	146.1	144.2	144.2	144.2
172.5°	144.2	146.1	146.1	146.1	146.1
175°	144.2	146.1	146.1	148.1	148.1
177.5°	144.2	146.1	146.1	146.1	146.1
180°	146.1	146.1	146.1	146.1	146.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	51.9	50.0	67.3	80.8	84.6
110°	57.7	53.8	71.1	82.7	86.5



(END OF REPORT)