

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: P520485

Luminaire Tested: **4WSLA-125-L830-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: P520485
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-L830-UPL8-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

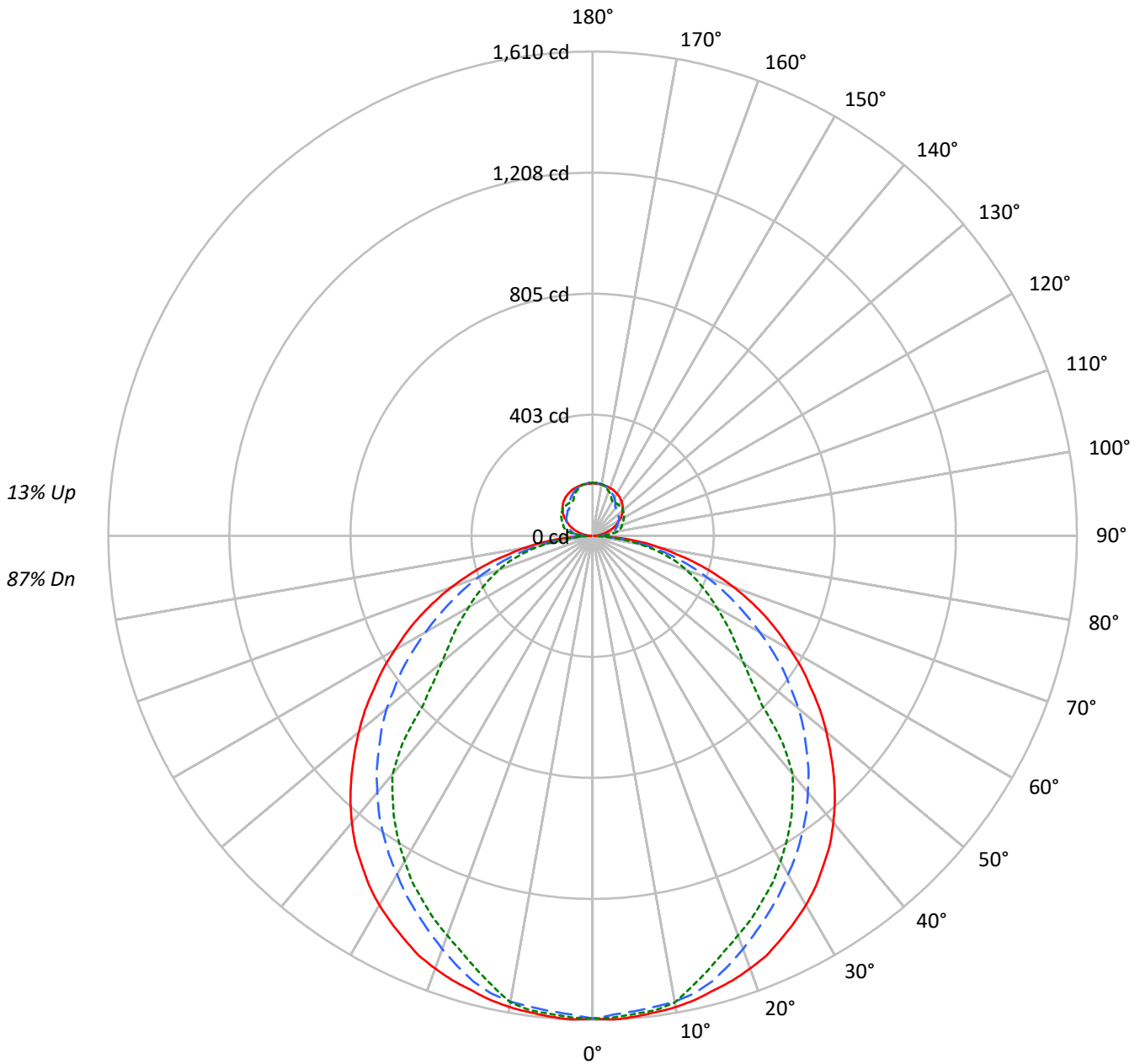
Lumens per Lamp: N/A
Luminaire Lumens: 4996.0 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.8
Input Voltage (V): NR
Input Current (A_{in}): 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°	8640	8640	8640
5°	8673	8573	8623
10°	8698	8596	8609
15°	8713	8545	8314
20°	8771	8374	8096
25°	8792	8216	7942
30°	8813	8081	7766
35°	8787	7968	7558
40°	8747	7822	7270
45°	8632	7648	6065
50°	8490	7484	5473
55°	8323	7239	5267
60°	8179	6912	5121
65°	8060	6618	5118
70°	7851	6360	5198
75°	7492	6051	5236
80°	7017	5439	4869
85°	6416	3853	3279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	3.0
10°-20°	432.1	8.6
20°-30°	645.6	12.9
30°-40°	770.7	15.4
40°-50°	770.7	15.4
50°-60°	667.0	13.4
60°-70°	512.0	10.2
70°-80°	313.7	6.3
80°-90°	88.3	1.8
90°-100°	49.9	1.0
100°-110°	79.2	1.6
110°-120°	92.6	1.9
120°-130°	100.0	2.0
130°-140°	98.5	2.0
140°-150°	87.2	1.7
150°-160°	71.7	1.4
160°-170°	48.0	1.0
170°-180°	16.7	0.3
0°-30°	1229.6	24.6
0°-40°	2000.3	40.0
0°-60°	3438.1	68.8
0°-90°	4352.1	87.1
90°-120°	221.8	4.4
90°-150°	507.5	10.2
90°-180°	644.0	12.9
0°-180°	4996.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1605	1605	1605	1605	1605	
5°	1605	1601	1587	1598	1596	153
15°	1564	1561	1534	1506	1492	442
25°	1481	1462	1384	1347	1337	683
35°	1337	1303	1213	1169	1150	837
45°	1134	1102	1005	915	797	875
55°	887	866	772	617	561	795
65°	633	610	520	418	402	625
75°	360	342	291	252	252	380
85°	104	86	62	53	53	109
90°	5	16	25	32	35	7
95°	18	39	53	55	55	18
105°	53	55	78	92	97	56
115°	88	74	92	106	113	86
125°	118	95	106	122	127	105
135°	141	127	118	129	136	109
145°	157	150	132	129	134	98
155°	166	164	155	148	146	77
165°	171	173	169	169	169	49
175°	173	176	176	178	178	17
180°	176	176	176	176	176	



TEST NUMBER: P520485

CATALOG NUMBER: 4WSLA-125-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1605.3	1605.3	1605.3	1605.3	1605.3
2.5°	1610.0	1605.3	1593.8	1605.3	1603.0
5°	1605.3	1600.7	1586.9	1598.4	1596.1
7.5°	1598.4	1593.8	1579.9	1593.8	1591.5
10°	1591.5	1586.9	1573.0	1582.2	1575.3
12.5°	1579.9	1575.3	1559.1	1547.6	1533.7
15°	1563.8	1561.4	1533.7	1506.0	1492.2
17.5°	1549.9	1543.0	1499.1	1466.7	1450.6
20°	1531.4	1519.9	1462.1	1425.2	1413.6
22.5°	1510.6	1492.2	1422.9	1388.2	1379.0
25°	1480.6	1462.1	1383.6	1346.6	1337.4
27.5°	1450.6	1427.5	1344.3	1307.4	1298.1
30°	1418.2	1385.9	1300.4	1265.8	1249.6
32.5°	1381.3	1348.9	1258.9	1219.6	1201.1
35°	1337.4	1302.7	1212.7	1168.8	1150.3
37.5°	1295.8	1258.9	1166.5	1118.0	1092.5
40°	1245.0	1208.0	1113.3	1060.2	1034.8
42.5°	1191.9	1157.2	1062.5	997.8	935.5
45°	1134.1	1101.8	1004.8	914.7	796.9
47.5°	1074.1	1046.4	951.7	829.2	716.0
50°	1014.0	986.3	893.9	748.4	653.7
52.5°	954.0	930.9	829.2	681.4	602.9
55°	887.0	866.2	771.5	616.7	561.3
57.5°	826.9	806.1	704.5	563.6	517.4
60°	759.9	741.5	642.1	510.5	475.8
62.5°	697.6	676.8	579.8	464.3	438.9
65°	632.9	609.8	519.7	418.1	401.9
67.5°	565.9	542.8	462.0	376.5	367.3
70°	498.9	480.4	404.2	334.9	330.3
72.5°	429.6	408.8	346.5	295.7	295.7
75°	360.3	341.9	291.0	251.8	251.8
77.5°	288.7	279.5	233.3	205.6	207.9
80°	226.4	214.8	175.5	157.1	157.1
82.5°	166.3	152.4	117.8	103.9	108.6
85°	103.9	85.5	62.4	53.1	53.1
87.5°	32.3	25.4	18.5	20.8	20.8
90°	4.6	16.2	25.4	32.3	34.6
92.5°	11.5	30.0	37.0	43.9	46.2
95°	18.5	39.3	53.1	55.4	55.4
97.5°	25.4	43.9	64.7	73.9	73.9
100°	34.6	46.2	69.3	83.2	85.5
102.5°	43.9	50.8	73.9	87.8	92.4
105°	53.1	55.4	78.5	92.4	97.0



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CATALOG NUMBER: 4WSLA-125-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	78.5	69.3	87.8	103.9	108.6
115°	87.8	73.9	92.4	106.3	113.2
117.5°	94.7	80.8	97.0	110.9	115.5
120°	101.6	85.5	99.3	115.5	120.1
122.5°	110.9	90.1	103.9	117.8	124.7
125°	117.8	94.7	106.3	122.4	127.0
127.5°	124.7	103.9	108.6	124.7	129.4
130°	129.4	113.2	110.9	127.0	131.7
132.5°	136.3	120.1	113.2	129.4	134.0
135°	140.9	127.0	117.8	129.4	136.3
137.5°	145.5	134.0	117.8	129.4	134.0
140°	150.1	140.9	120.1	129.4	134.0
142.5°	152.4	145.5	122.4	129.4	134.0
145°	157.1	150.1	131.7	129.4	134.0
147.5°	159.4	154.8	138.6	129.4	134.0
150°	161.7	159.4	145.5	131.7	131.7
152.5°	164.0	161.7	150.1	140.9	136.3
155°	166.3	164.0	154.8	147.8	145.5
157.5°	168.6	168.6	159.4	154.8	152.4
160°	168.6	170.9	164.0	159.4	157.1
162.5°	170.9	173.2	166.3	164.0	161.7
165°	170.9	173.2	168.6	168.6	168.6
167.5°	173.2	175.5	173.2	170.9	170.9
170°	173.2	175.5	173.2	173.2	173.2
172.5°	173.2	175.5	175.5	175.5	175.5
175°	173.2	175.5	175.5	177.9	177.9
177.5°	173.2	175.5	175.5	175.5	175.5
180°	175.5	175.5	175.5	175.5	175.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	62.4	60.1	80.8	97.0	101.6
110°	69.3	64.7	85.5	99.3	103.9



(END OF REPORT)