

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: P520484

Luminaire Tested: **4WSLA-125-L830-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: P520484  
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-L830-UPL15-UNV-U  
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

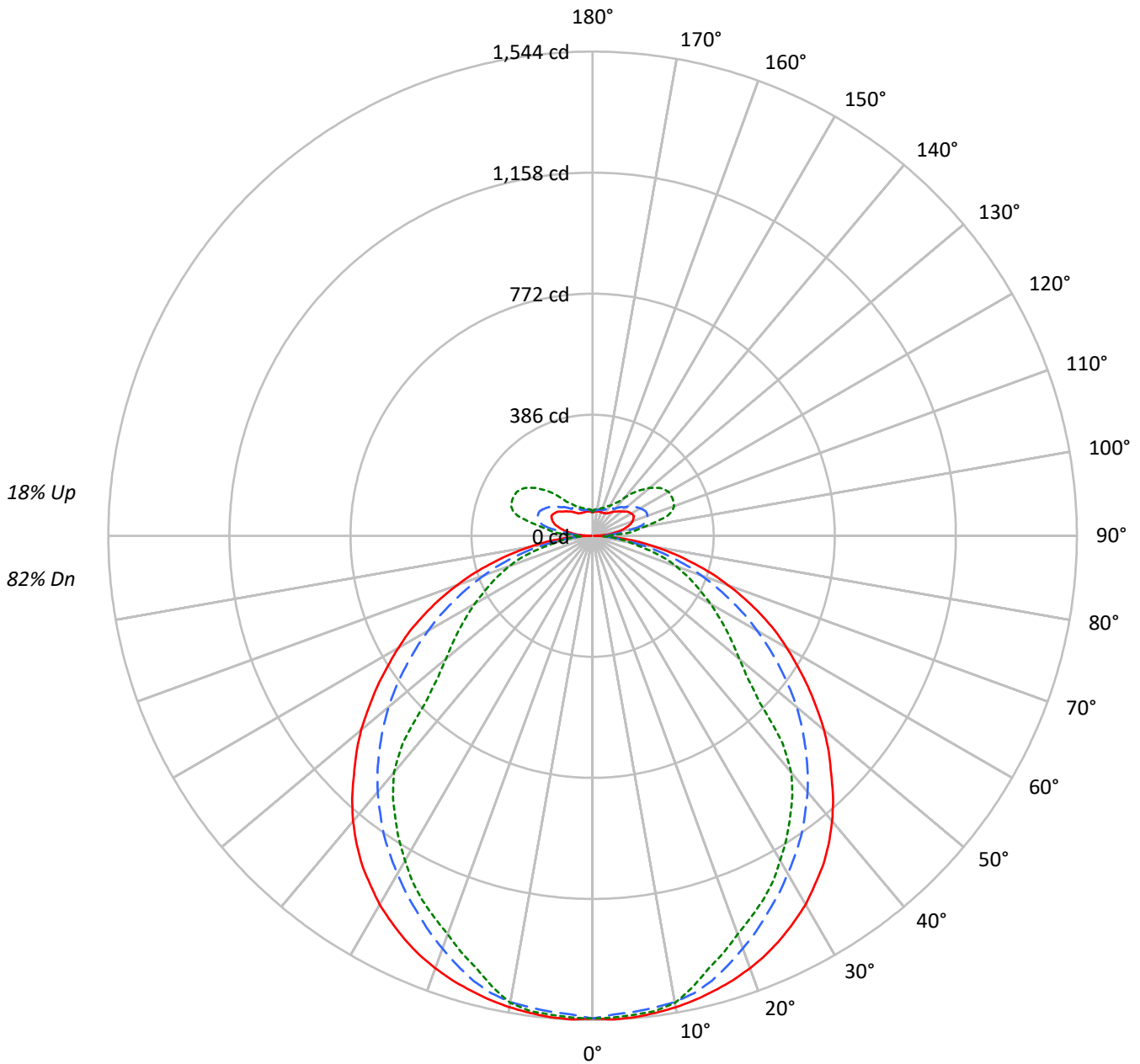
Lumens per Lamp: N/A  
Luminaire Lumens: 4985.0 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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: P520484

CATALOG NUMBER: 4WSLA-125-L830-UPL15-UNV-U

### Luminous Intensity Polar Plot





TEST NUMBER: P520484

CATALOG NUMBER: 4WSLA-125-L830-UPL15-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	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°	8284	8284	8284
5°	8324	8231	8282
10°	8343	8250	8267
15°	8368	8185	7959
20°	8404	8020	7743
25°	8426	7861	7620
30°	8440	7732	7431
35°	8421	7631	7210
40°	8346	7491	6920
45°	8187	7308	5739
50°	8065	7110	5111
55°	7866	6826	4863
60°	7696	6520	4672
65°	7515	6162	4532
70°	7223	5773	4447
75°	6816	5292	4090
80°	6242	4451	3629
85°	5588	3853	3662



TEST NUMBER: P520484

CATALOG NUMBER: 4WSLA-125-L830-UPL15-UNV-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.9	2.9
10°-20°	414.4	8.3
20°-30°	618.4	12.4
30°-40°	736.9	14.8
40°-50°	732.9	14.7
50°-60°	628.2	12.6
60°-70°	473.1	9.5
70°-80°	274.0	5.5
80°-90°	82.3	1.7
90°-100°	88.4	1.8
100°-110°	181.6	3.6
110°-120°	192.0	3.9
120°-130°	160.1	3.2
130°-140°	111.9	2.2
140°-150°	69.6	1.4
150°-160°	43.2	0.9
160°-170°	24.3	0.5
170°-180°	7.8	0.2
0°-30°	1178.7	23.6
0°-40°	1915.6	38.4
0°-60°	3276.7	65.7
0°-90°	4106.1	82.4
90°-120°	461.9	9.3
90°-150°	803.6	16.1
90°-180°	879.0	17.6
0°-180°	4985.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1541	1536	1524	1534	1533	147
15°	1502	1500	1469	1444	1428	424
25°	1419	1399	1324	1291	1283	654
35°	1282	1247	1161	1116	1097	801
45°	1076	1049	960	865	754	831
55°	838	826	728	578	518	749
65°	590	576	484	376	356	583
75°	328	317	254	203	197	347
85°	90	80	62	59	59	97
90°	5	22	38	47	50	9
95°	50	67	76	112	122	48
105°	117	122	175	234	248	121
115°	145	123	186	256	281	141
125°	134	119	161	236	265	119
135°	109	119	130	175	201	85
145°	89	103	112	120	128	56
155°	81	86	92	100	102	37
165°	80	83	86	89	89	23
175°	78	80	81	83	84	7
180°	76	76	76	76	76	



TEST NUMBER: P520484

CATALOG NUMBER: 4WSLA-125-L830-UPL15-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1539.2	1539.2	1539.2	1539.2	1539.2
2.5°	1543.9	1540.8	1528.3	1540.8	1537.7
5°	1540.8	1536.1	1523.6	1534.5	1533.0
7.5°	1534.5	1531.4	1517.4	1529.9	1528.3
10°	1526.7	1522.1	1509.6	1518.9	1512.7
12.5°	1515.8	1512.7	1494.0	1486.2	1473.7
15°	1501.8	1500.2	1469.0	1444.0	1428.4
17.5°	1486.2	1479.9	1436.2	1406.5	1392.5
20°	1467.4	1458.1	1400.3	1365.9	1351.9
22.5°	1445.6	1431.5	1364.4	1331.6	1317.6
25°	1419.0	1398.7	1323.8	1291.0	1283.2
27.5°	1389.4	1365.9	1286.3	1253.6	1244.2
30°	1358.1	1328.5	1244.2	1213.0	1195.8
32.5°	1319.1	1291.0	1203.6	1167.7	1149.0
35°	1281.7	1247.3	1161.4	1116.2	1097.4
37.5°	1236.4	1202.0	1113.1	1067.8	1045.9
40°	1188.0	1153.6	1066.2	1013.1	985.0
42.5°	1134.9	1103.7	1014.7	950.7	896.1
45°	1075.6	1049.0	960.1	864.8	754.0
47.5°	1020.9	996.0	905.4	782.1	668.1
50°	963.2	939.8	849.2	704.0	610.4
52.5°	899.2	882.0	788.3	636.9	562.0
55°	838.3	825.8	727.5	577.6	518.3
57.5°	774.3	761.8	666.6	521.4	474.6
60°	715.0	702.5	605.7	471.4	434.0
62.5°	655.7	638.5	546.4	423.1	391.8
65°	590.1	576.0	483.9	376.2	355.9
67.5°	524.5	512.0	426.2	332.5	318.5
70°	459.0	448.0	366.9	290.4	282.6
72.5°	395.0	380.9	313.8	248.2	245.1
75°	327.8	316.9	254.5	202.9	196.7
77.5°	263.8	254.5	199.8	154.5	149.9
80°	201.4	192.0	143.6	112.4	117.1
82.5°	148.3	135.8	96.8	87.4	92.1
85°	90.5	79.6	62.4	59.3	59.3
87.5°	31.2	29.7	28.1	32.8	34.3
90°	4.7	21.9	37.5	46.8	50.0
92.5°	26.5	39.0	51.5	60.9	64.0
95°	50.0	67.1	76.5	112.4	121.8
97.5°	68.7	89.0	99.9	132.7	142.1
100°	87.4	106.2	140.5	157.7	168.6
102.5°	103.0	117.1	165.5	199.8	206.1
105°	117.1	121.8	174.8	234.2	248.2



TEST NUMBER: P520484

CATALOG NUMBER: 4WSLA-125-L830-UPL15-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	140.5	124.9	187.3	254.5	279.4
115°	145.2	123.3	185.8	256.0	281.0
117.5°	145.2	123.3	181.1	256.0	281.0
120°	142.1	124.9	174.8	252.9	279.4
122.5°	138.9	121.8	168.6	246.7	273.2
125°	134.3	118.6	160.8	235.7	265.4
127.5°	126.4	121.8	153.0	221.7	251.3
130°	120.2	123.3	143.6	207.6	237.3
132.5°	115.5	120.2	134.3	192.0	218.6
135°	109.3	118.6	129.6	174.8	201.4
137.5°	104.6	114.0	121.8	159.2	181.1
140°	99.9	110.8	114.0	138.9	157.7
142.5°	93.7	106.2	107.7	129.6	137.4
145°	89.0	103.0	112.4	120.2	128.0
147.5°	84.3	96.8	109.3	110.8	118.6
150°	82.7	90.5	104.6	106.2	109.3
152.5°	81.2	87.4	96.8	106.2	107.7
155°	81.2	85.9	92.1	99.9	101.5
157.5°	79.6	85.9	89.0	95.2	96.8
160°	79.6	84.3	87.4	92.1	93.7
162.5°	79.6	84.3	85.9	90.5	92.1
165°	79.6	82.7	85.9	89.0	89.0
167.5°	79.6	82.7	84.3	87.4	87.4
170°	79.6	81.2	84.3	85.9	85.9
172.5°	78.1	81.2	82.7	85.9	85.9
175°	78.1	79.6	81.2	82.7	84.3
177.5°	74.9	79.6	81.2	82.7	81.2
180°	76.5	76.5	76.5	76.5	76.5



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	128.0	123.3	181.1	246.7	266.9
110°	135.8	124.9	185.8	251.3	276.3



(END OF REPORT)