

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: P520491

Luminaire Tested: **4WSLA-125-L840-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: P520491  
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-L840-UPL8-UNV-U  
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

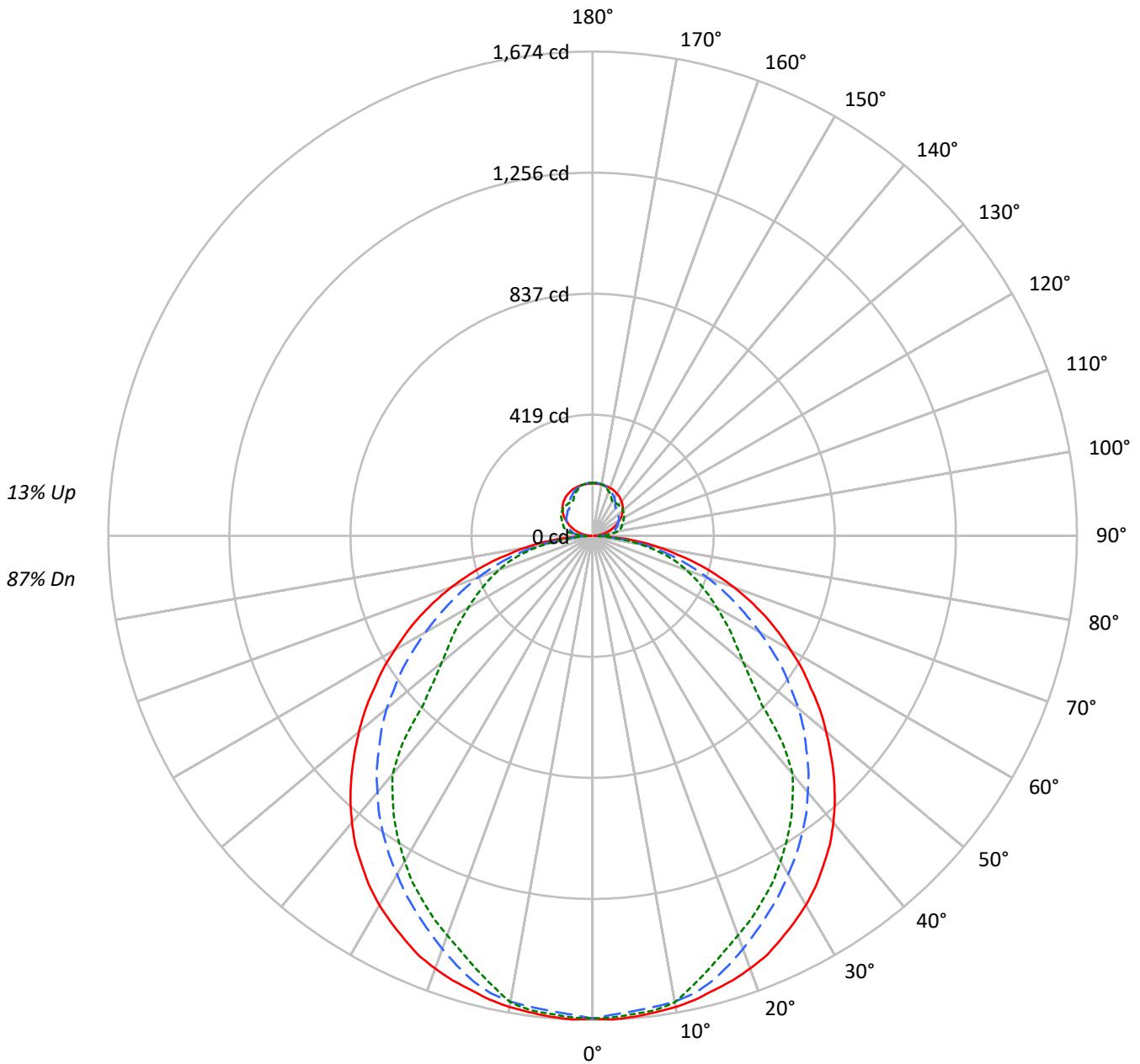
Lumens per Lamp: N/A  
Luminaire Lumens: 5194.0 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 38.8  
Input Voltage (V): NR  
Input Current (A<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	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°	8982	8982	8982
5°	9017	8913	8964
10°	9042	8937	8950
15°	9058	8884	8644
20°	9119	8706	8417
25°	9141	8542	8257
30°	9163	8402	8073
35°	9135	8283	7857
40°	9093	8132	7558
45°	8974	7951	6306
50°	8827	7781	5690
55°	8652	7526	5475
60°	8505	7186	5325
65°	8379	6881	5321
70°	8162	6612	5404
75°	7790	6292	5442
80°	7293	5656	5061
85°	6675	4001	3409



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.0	3.0
10°-20°	449.2	8.6
20°-30°	671.2	12.9
30°-40°	801.2	15.4
40°-50°	801.3	15.4
50°-60°	693.5	13.4
60°-70°	532.3	10.2
70°-80°	326.1	6.3
80°-90°	91.8	1.8
90°-100°	51.9	1.0
100°-110°	82.4	1.6
110°-120°	96.3	1.9
120°-130°	104.0	2.0
130°-140°	102.5	2.0
140°-150°	90.6	1.7
150°-160°	74.6	1.4
160°-170°	49.9	1.0
170°-180°	17.4	0.3
0°-30°	1278.4	24.6
0°-40°	2079.6	40.0
0°-60°	3574.3	68.8
0°-90°	4524.5	87.1
90°-120°	230.5	4.4
90°-150°	527.6	10.2
90°-180°	670.0	12.9
0°-180°	5194.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1669	1669	1669	1669	1669	
5°	1669	1664	1650	1662	1659	159
15°	1626	1623	1594	1566	1551	460
25°	1539	1520	1438	1400	1390	710
35°	1390	1354	1261	1215	1196	871
45°	1179	1146	1045	951	828	909
55°	922	900	802	641	584	827
65°	658	634	540	435	418	650
75°	375	355	303	262	262	395
85°	108	89	65	55	55	113
90°	5	17	26	34	36	8
95°	19	41	55	58	58	19
105°	55	58	82	96	101	58
115°	91	77	96	110	118	89
125°	122	98	110	127	132	109
135°	146	132	122	134	142	113
145°	163	156	137	134	139	102
155°	173	170	161	154	151	80
165°	178	180	175	175	175	50
175°	180	182	182	185	185	17
180°	182	182	182	182	182	



TEST NUMBER: P520491

CATALOG NUMBER: 4WSLA-125-L840-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1669.0	1669.0	1669.0	1669.0	1669.0
2.5°	1673.8	1669.0	1656.9	1669.0	1666.6
5°	1669.0	1664.2	1649.7	1661.8	1659.3
7.5°	1661.8	1656.9	1642.5	1656.9	1654.5
10°	1654.5	1649.7	1635.3	1644.9	1637.7
12.5°	1642.5	1637.7	1620.9	1608.9	1594.5
15°	1625.7	1623.3	1594.5	1565.7	1551.3
17.5°	1611.3	1604.1	1558.5	1524.9	1508.1
20°	1592.1	1580.1	1520.1	1481.6	1469.6
22.5°	1570.5	1551.3	1479.2	1443.2	1433.6
25°	1539.3	1520.1	1438.4	1400.0	1390.4
27.5°	1508.1	1484.0	1397.6	1359.2	1349.6
30°	1474.4	1440.8	1352.0	1316.0	1299.1
32.5°	1436.0	1402.4	1308.7	1267.9	1248.7
35°	1390.4	1354.4	1260.7	1215.1	1195.9
37.5°	1347.2	1308.7	1212.7	1162.3	1135.8
40°	1294.3	1255.9	1157.5	1102.2	1075.8
42.5°	1239.1	1203.1	1104.6	1037.4	972.6
45°	1179.1	1145.5	1044.6	950.9	828.5
47.5°	1116.6	1087.8	989.4	862.1	744.4
50°	1054.2	1025.4	929.3	778.0	679.6
52.5°	991.8	967.8	862.1	708.4	626.8
55°	922.1	900.5	802.1	641.2	583.5
57.5°	859.7	838.1	732.4	585.9	537.9
60°	790.1	770.8	667.6	530.7	494.7
62.5°	725.2	703.6	602.7	482.7	456.3
65°	658.0	634.0	540.3	434.6	417.8
67.5°	588.3	564.3	480.3	391.4	381.8
70°	518.7	499.5	420.2	348.2	343.4
72.5°	446.7	425.0	360.2	307.4	307.4
75°	374.6	355.4	302.6	261.7	261.7
77.5°	300.2	290.6	242.5	213.7	216.1
80°	235.3	223.3	182.5	163.3	163.3
82.5°	172.9	158.5	122.5	108.1	112.9
85°	108.1	88.9	64.8	55.2	55.2
87.5°	33.6	26.4	19.2	21.6	21.6
90°	4.8	16.8	26.4	33.6	36.0
92.5°	12.0	31.2	38.4	45.6	48.0
95°	19.2	40.8	55.2	57.6	57.6
97.5°	26.4	45.6	67.2	76.8	76.8
100°	36.0	48.0	72.0	86.4	88.9
102.5°	45.6	52.8	76.8	91.3	96.1
105°	55.2	57.6	81.6	96.1	100.9



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CATALOG NUMBER: 4WSLA-125-L840-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	81.6	72.0	91.3	108.1	112.9
115°	91.3	76.8	96.1	110.5	117.7
117.5°	98.5	84.0	100.9	115.3	120.1
120°	105.7	88.9	103.3	120.1	124.9
122.5°	115.3	93.7	108.1	122.5	129.7
125°	122.5	98.5	110.5	127.3	132.1
127.5°	129.7	108.1	112.9	129.7	134.5
130°	134.5	117.7	115.3	132.1	136.9
132.5°	141.7	124.9	117.7	134.5	139.3
135°	146.5	132.1	122.5	134.5	141.7
137.5°	151.3	139.3	122.5	134.5	139.3
140°	156.1	146.5	124.9	134.5	139.3
142.5°	158.5	151.3	127.3	134.5	139.3
145°	163.3	156.1	136.9	134.5	139.3
147.5°	165.7	160.9	144.1	134.5	139.3
150°	168.1	165.7	151.3	136.9	136.9
152.5°	170.5	168.1	156.1	146.5	141.7
155°	172.9	170.5	160.9	153.7	151.3
157.5°	175.3	175.3	165.7	160.9	158.5
160°	175.3	177.7	170.5	165.7	163.3
162.5°	177.7	180.1	172.9	170.5	168.1
165°	177.7	180.1	175.3	175.3	175.3
167.5°	180.1	182.5	180.1	177.7	177.7
170°	180.1	182.5	180.1	180.1	180.1
172.5°	180.1	182.5	182.5	182.5	182.5
175°	180.1	182.5	182.5	184.9	184.9
177.5°	180.1	182.5	182.5	182.5	182.5
180°	182.5	182.5	182.5	182.5	182.5



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	64.8	62.4	84.0	100.9	105.7
110°	72.0	67.2	88.9	103.3	108.1



(END OF REPORT)