

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: P520488

Luminaire Tested: **4WSLA-125-L835-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: P520488  
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-L835-UPL8-UNV-U  
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

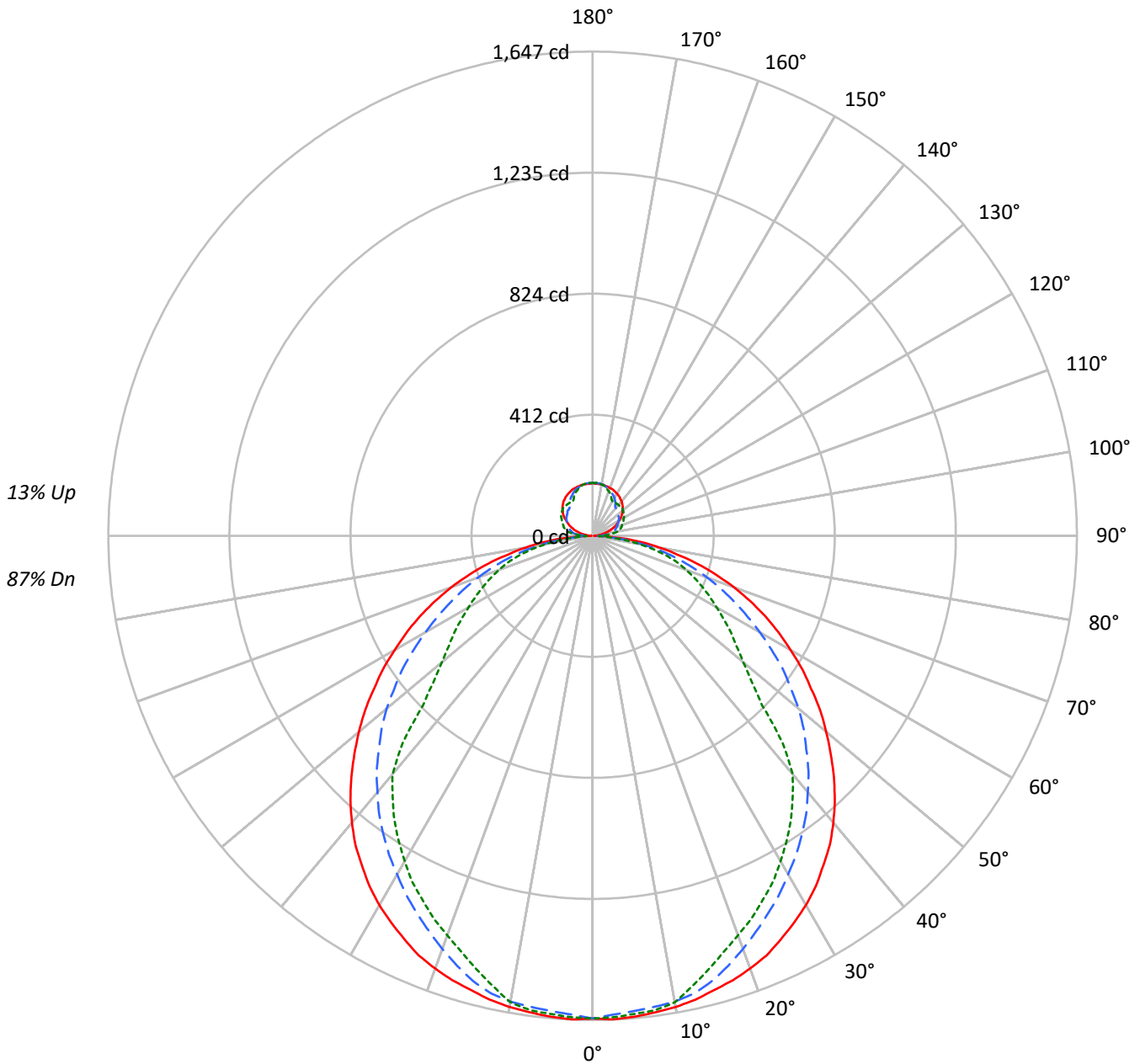
Lumens per Lamp: N/A  
Luminaire Lumens: 5110.0 lumens  
Efficiency: N/A  
Efficacy: 131.7 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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				20				20	
RC	80				70				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				87
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73				73
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61				61
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51				51
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44				44
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38				38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33				33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30				30
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26				26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24				24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22				22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8837	8837	8837
5°	8871	8769	8820
10°	8896	8793	8806
15°	8912	8741	8504
20°	8971	8565	8281
25°	8993	8404	8123
30°	9015	8266	7943
35°	8987	8149	7730
40°	8946	8000	7436
45°	8829	7822	6204
50°	8684	7655	5598
55°	8512	7404	5387
60°	8367	7070	5239
65°	8243	6770	5235
70°	8030	6505	5316
75°	7665	6190	5355
80°	7175	5566	4981
85°	6564	3940	3353



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.4	3.0
10°-20°	441.9	8.6
20°-30°	660.3	12.9
30°-40°	788.2	15.4
40°-50°	788.3	15.4
50°-60°	682.3	13.4
60°-70°	523.7	10.2
70°-80°	320.9	6.3
80°-90°	90.3	1.8
90°-100°	51.1	1.0
100°-110°	81.0	1.6
110°-120°	94.7	1.9
120°-130°	102.3	2.0
130°-140°	100.8	2.0
140°-150°	89.2	1.7
150°-160°	73.4	1.4
160°-170°	49.1	1.0
170°-180°	17.1	0.3
0°-30°	1257.7	24.6
0°-40°	2045.9	40.0
0°-60°	3516.5	68.8
0°-90°	4451.4	87.1
90°-120°	226.8	4.4
90°-150°	519.1	10.2
90°-180°	659.0	12.9
0°-180°	5110.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1642	1642	1642	1642	1642	
5°	1642	1637	1623	1635	1632	156
15°	1599	1597	1569	1540	1526	453
25°	1514	1496	1415	1377	1368	699
35°	1368	1332	1240	1195	1176	857
45°	1160	1127	1028	936	815	894
55°	907	886	789	631	574	813
65°	647	624	532	428	411	639
75°	369	350	298	258	258	389
85°	106	87	64	54	54	111
90°	5	16	26	33	35	7
95°	19	40	54	57	57	19
105°	54	57	80	94	99	57
115°	90	76	94	109	116	88
125°	120	97	109	125	130	107
135°	144	130	120	132	139	111
145°	161	154	135	132	137	100
155°	170	168	158	151	149	78
165°	175	177	172	172	172	50
175°	177	180	180	182	182	17
180°	180	180	180	180	180	



TEST NUMBER: P520488

CATALOG NUMBER: 4WSLA-125-L835-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1642.0	1642.0	1642.0	1642.0	1642.0
2.5°	1646.7	1642.0	1630.2	1642.0	1639.6
5°	1642.0	1637.2	1623.1	1634.9	1632.5
7.5°	1634.9	1630.2	1616.0	1630.2	1627.8
10°	1627.8	1623.1	1608.9	1618.3	1611.3
12.5°	1616.0	1611.3	1594.7	1582.9	1568.7
15°	1599.4	1597.1	1568.7	1540.4	1526.2
17.5°	1585.3	1578.2	1533.3	1500.2	1483.7
20°	1566.4	1554.5	1495.5	1457.7	1445.9
22.5°	1545.1	1526.2	1455.3	1419.9	1410.4
25°	1514.4	1495.5	1415.2	1377.4	1367.9
27.5°	1483.7	1460.0	1375.0	1337.2	1327.7
30°	1450.6	1417.5	1330.1	1294.7	1278.1
32.5°	1412.8	1379.7	1287.6	1247.4	1228.5
35°	1367.9	1332.5	1240.3	1195.4	1176.5
37.5°	1325.4	1287.6	1193.1	1143.5	1117.5
40°	1273.4	1235.6	1138.7	1084.4	1058.4
42.5°	1219.1	1183.6	1086.8	1020.6	956.8
45°	1160.0	1126.9	1027.7	935.6	815.1
47.5°	1098.6	1070.2	973.4	848.2	732.4
50°	1037.2	1008.8	914.3	765.5	668.6
52.5°	975.7	952.1	848.2	696.9	616.6
55°	907.2	886.0	789.1	630.8	574.1
57.5°	845.8	824.5	720.6	576.5	529.2
60°	777.3	758.4	656.8	522.1	486.7
62.5°	713.5	692.2	593.0	474.9	448.9
65°	647.3	623.7	531.6	427.6	411.1
67.5°	578.8	555.2	472.5	385.1	375.6
70°	510.3	491.4	413.4	342.6	337.8
72.5°	439.4	418.2	354.4	302.4	302.4
75°	368.6	349.7	297.7	257.5	257.5
77.5°	295.3	285.9	238.6	210.3	212.6
80°	231.5	219.7	179.6	160.7	160.7
82.5°	170.1	155.9	120.5	106.3	111.0
85°	106.3	87.4	63.8	54.3	54.3
87.5°	33.1	26.0	18.9	21.3	21.3
90°	4.7	16.5	26.0	33.1	35.4
92.5°	11.8	30.7	37.8	44.9	47.3
95°	18.9	40.2	54.3	56.7	56.7
97.5°	26.0	44.9	66.2	75.6	75.6
100°	35.4	47.3	70.9	85.1	87.4
102.5°	44.9	52.0	75.6	89.8	94.5
105°	54.3	56.7	80.3	94.5	99.2



TEST NUMBER: P520488

CATALOG NUMBER: 4WSLA-125-L835-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	80.3	70.9	89.8	106.3	111.0
115°	89.8	75.6	94.5	108.7	115.8
117.5°	96.9	82.7	99.2	113.4	118.1
120°	104.0	87.4	101.6	118.1	122.9
122.5°	113.4	92.1	106.3	120.5	127.6
125°	120.5	96.9	108.7	125.2	129.9
127.5°	127.6	106.3	111.0	127.6	132.3
130°	132.3	115.8	113.4	129.9	134.7
132.5°	139.4	122.9	115.8	132.3	137.0
135°	144.1	129.9	120.5	132.3	139.4
137.5°	148.8	137.0	120.5	132.3	137.0
140°	153.6	144.1	122.9	132.3	137.0
142.5°	155.9	148.8	125.2	132.3	137.0
145°	160.7	153.6	134.7	132.3	137.0
147.5°	163.0	158.3	141.8	132.3	137.0
150°	165.4	163.0	148.8	134.7	134.7
152.5°	167.7	165.4	153.6	144.1	139.4
155°	170.1	167.7	158.3	151.2	148.8
157.5°	172.5	172.5	163.0	158.3	155.9
160°	172.5	174.8	167.7	163.0	160.7
162.5°	174.8	177.2	170.1	167.7	165.4
165°	174.8	177.2	172.5	172.5	172.5
167.5°	177.2	179.6	177.2	174.8	174.8
170°	177.2	179.6	177.2	177.2	177.2
172.5°	177.2	179.6	179.6	179.6	179.6
175°	177.2	179.6	179.6	181.9	181.9
177.5°	177.2	179.6	179.6	179.6	179.6
180°	179.6	179.6	179.6	179.6	179.6



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	63.8	61.4	82.7	99.2	104.0
110°	70.9	66.2	87.4	101.6	106.3



(END OF REPORT)