

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: P520608

Luminaire Tested: **4WSLA-75-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: P520608  
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-75-L835-UPL8-UNV-U  
Description: 4 FOOT, 750 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**

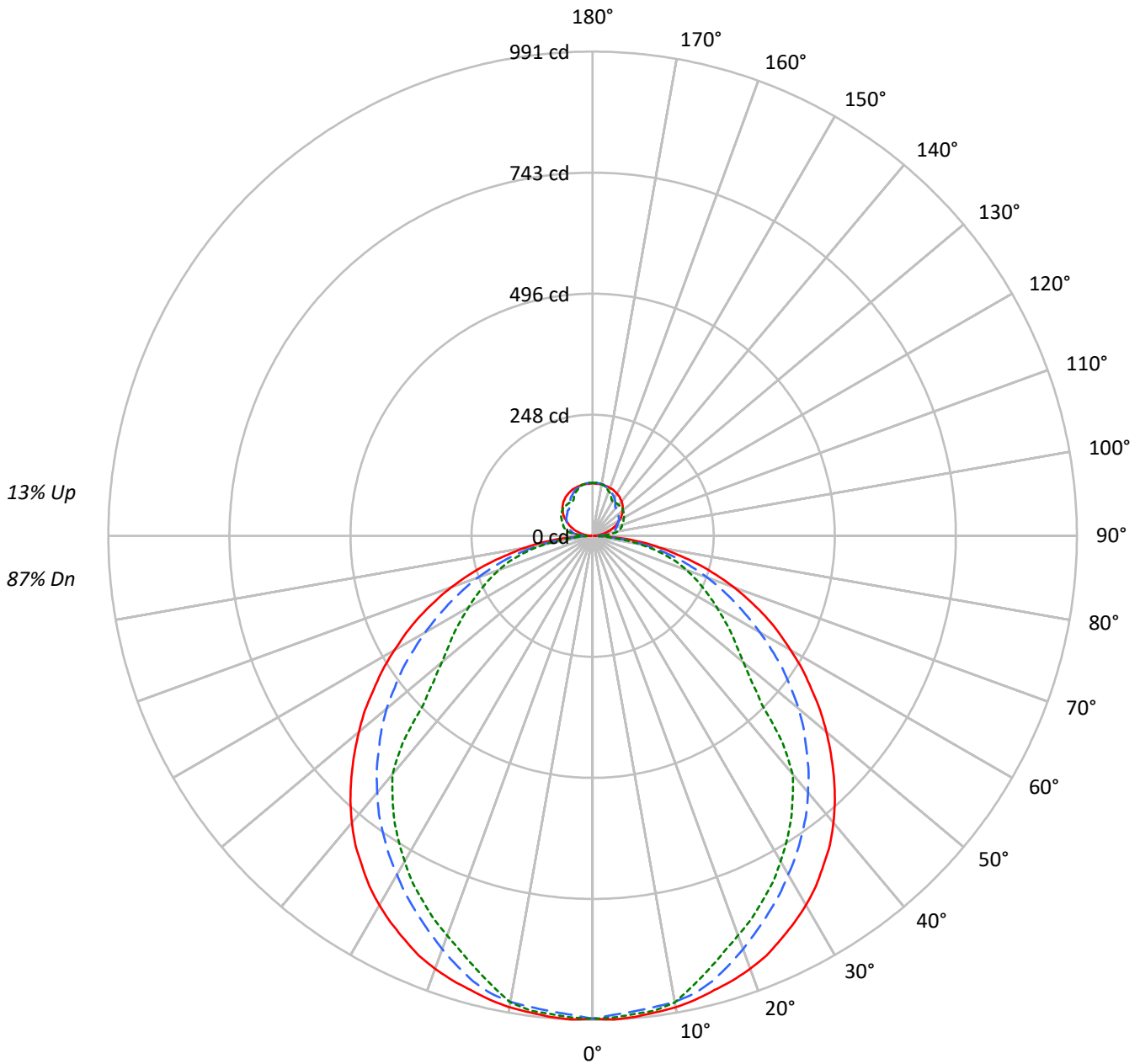
Lumens per Lamp: N/A  
Luminaire Lumens: 3076.0 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 23.2  
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°	5320	5320	5320
5°	5340	5278	5309
10°	5355	5293	5300
15°	5365	5261	5119
20°	5400	5156	4985
25°	5413	5059	4890
30°	5427	4976	4781
35°	5410	4905	4653
40°	5385	4816	4476
45°	5315	4708	3734
50°	5227	4608	3370
55°	5124	4457	3243
60°	5036	4256	3154
65°	4963	4075	3152
70°	4834	3917	3201
75°	4614	3726	3223
80°	4320	3350	2997
85°	3952	2371	2019



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.6	3.0
10°-20°	266.0	8.6
20°-30°	397.5	12.9
30°-40°	474.5	15.4
40°-50°	474.5	15.4
50°-60°	410.7	13.4
60°-70°	315.2	10.2
70°-80°	193.2	6.3
80°-90°	54.4	1.8
90°-100°	30.7	1.0
100°-110°	48.8	1.6
110°-120°	57.0	1.9
120°-130°	61.6	2.0
130°-140°	60.7	2.0
140°-150°	53.7	1.7
150°-160°	44.2	1.4
160°-170°	29.6	1.0
170°-180°	10.3	0.3
0°-30°	757.1	24.6
0°-40°	1231.6	40.0
0°-60°	2116.8	68.8
0°-90°	2679.5	87.1
90°-120°	136.5	4.4
90°-150°	312.4	10.2
90°-180°	396.0	12.9
0°-180°	3076.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	988	986	977	984	983	94
15°	963	961	944	927	919	272
25°	912	900	852	829	823	421
35°	823	802	747	720	708	516
45°	698	678	619	563	491	538
55°	546	533	475	380	346	490
65°	390	375	320	257	248	385
75°	222	210	179	155	155	234
85°	64	53	38	33	33	67
90°	3	10	16	20	21	4
95°	11	24	33	34	34	11
105°	33	34	48	57	60	34
115°	54	46	57	65	70	53
125°	72	58	65	75	78	65
135°	87	78	72	80	84	67
145°	97	92	81	80	82	60
155°	102	101	95	91	90	47
165°	105	107	104	104	104	30
175°	107	108	108	110	110	10
180°	108	108	108	108	108	



TEST NUMBER: P520608

CATALOG NUMBER: 4WSLA-75-L835-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	988.4	988.4	988.4	988.4	988.4
2.5°	991.2	988.4	981.3	988.4	987.0
5°	988.4	985.5	977.0	984.1	982.7
7.5°	984.1	981.3	972.7	981.3	979.9
10°	979.9	977.0	968.5	974.2	969.9
12.5°	972.7	969.9	959.9	952.8	944.3
15°	962.8	961.4	944.3	927.2	918.7
17.5°	954.3	950.0	923.0	903.1	893.1
20°	942.9	935.8	900.2	877.5	870.4
22.5°	930.1	918.7	876.0	854.7	849.0
25°	911.6	900.2	851.9	829.1	823.4
27.5°	893.1	878.9	827.7	804.9	799.2
30°	873.2	853.3	800.7	779.3	769.4
32.5°	850.4	830.5	775.1	750.9	739.5
35°	823.4	802.1	746.6	719.6	708.2
37.5°	797.8	775.1	718.2	688.3	672.7
40°	766.5	743.8	685.5	652.8	637.1
42.5°	733.8	712.5	654.2	614.4	576.0
45°	698.3	678.4	618.6	563.2	490.6
47.5°	661.3	644.2	585.9	510.6	440.9
50°	624.3	607.3	550.4	460.8	402.5
52.5°	587.3	573.1	510.6	419.5	371.2
55°	546.1	533.3	475.0	379.7	345.6
57.5°	509.1	496.3	433.8	347.0	318.6
60°	467.9	456.5	395.4	314.3	293.0
62.5°	429.5	416.7	357.0	285.9	270.2
65°	389.7	375.4	320.0	257.4	247.5
67.5°	348.4	334.2	284.4	231.8	226.1
70°	307.2	295.8	248.9	206.2	203.4
72.5°	264.5	251.7	213.3	182.0	182.0
75°	221.9	210.5	179.2	155.0	155.0
77.5°	177.8	172.1	143.6	126.6	128.0
80°	139.4	132.3	108.1	96.7	96.7
82.5°	102.4	93.9	72.5	64.0	66.8
85°	64.0	52.6	38.4	32.7	32.7
87.5°	19.9	15.6	11.4	12.8	12.8
90°	2.8	10.0	15.6	19.9	21.3
92.5°	7.1	18.5	22.8	27.0	28.4
95°	11.4	24.2	32.7	34.1	34.1
97.5°	15.6	27.0	39.8	45.5	45.5
100°	21.3	28.4	42.7	51.2	52.6
102.5°	27.0	31.3	45.5	54.0	56.9
105°	32.7	34.1	48.4	56.9	59.7



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CATALOG NUMBER: 4WSLA-75-L835-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	48.4	42.7	54.0	64.0	66.8
115°	54.0	45.5	56.9	65.4	69.7
117.5°	58.3	49.8	59.7	68.3	71.1
120°	62.6	52.6	61.2	71.1	74.0
122.5°	68.3	55.5	64.0	72.5	76.8
125°	72.5	58.3	65.4	75.4	78.2
127.5°	76.8	64.0	66.8	76.8	79.6
130°	79.6	69.7	68.3	78.2	81.1
132.5°	83.9	74.0	69.7	79.6	82.5
135°	86.8	78.2	72.5	79.6	83.9
137.5°	89.6	82.5	72.5	79.6	82.5
140°	92.4	86.8	74.0	79.6	82.5
142.5°	93.9	89.6	75.4	79.6	82.5
145°	96.7	92.4	81.1	79.6	82.5
147.5°	98.1	95.3	85.3	79.6	82.5
150°	99.6	98.1	89.6	81.1	81.1
152.5°	101.0	99.6	92.4	86.8	83.9
155°	102.4	101.0	95.3	91.0	89.6
157.5°	103.8	103.8	98.1	95.3	93.9
160°	103.8	105.2	101.0	98.1	96.7
162.5°	105.2	106.7	102.4	101.0	99.6
165°	105.2	106.7	103.8	103.8	103.8
167.5°	106.7	108.1	106.7	105.2	105.2
170°	106.7	108.1	106.7	106.7	106.7
172.5°	106.7	108.1	108.1	108.1	108.1
175°	106.7	108.1	108.1	109.5	109.5
177.5°	106.7	108.1	108.1	108.1	108.1
180°	108.1	108.1	108.1	108.1	108.1



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	38.4	37.0	49.8	59.7	62.6
110°	42.7	39.8	52.6	61.2	64.0



(END OF REPORT)