

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: P555740

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-82-96-EDD-90**

Issue Date: 7/16/2021

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: P555740  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FUSL-12-2-LD4-3LO-35-UNV-82-96-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

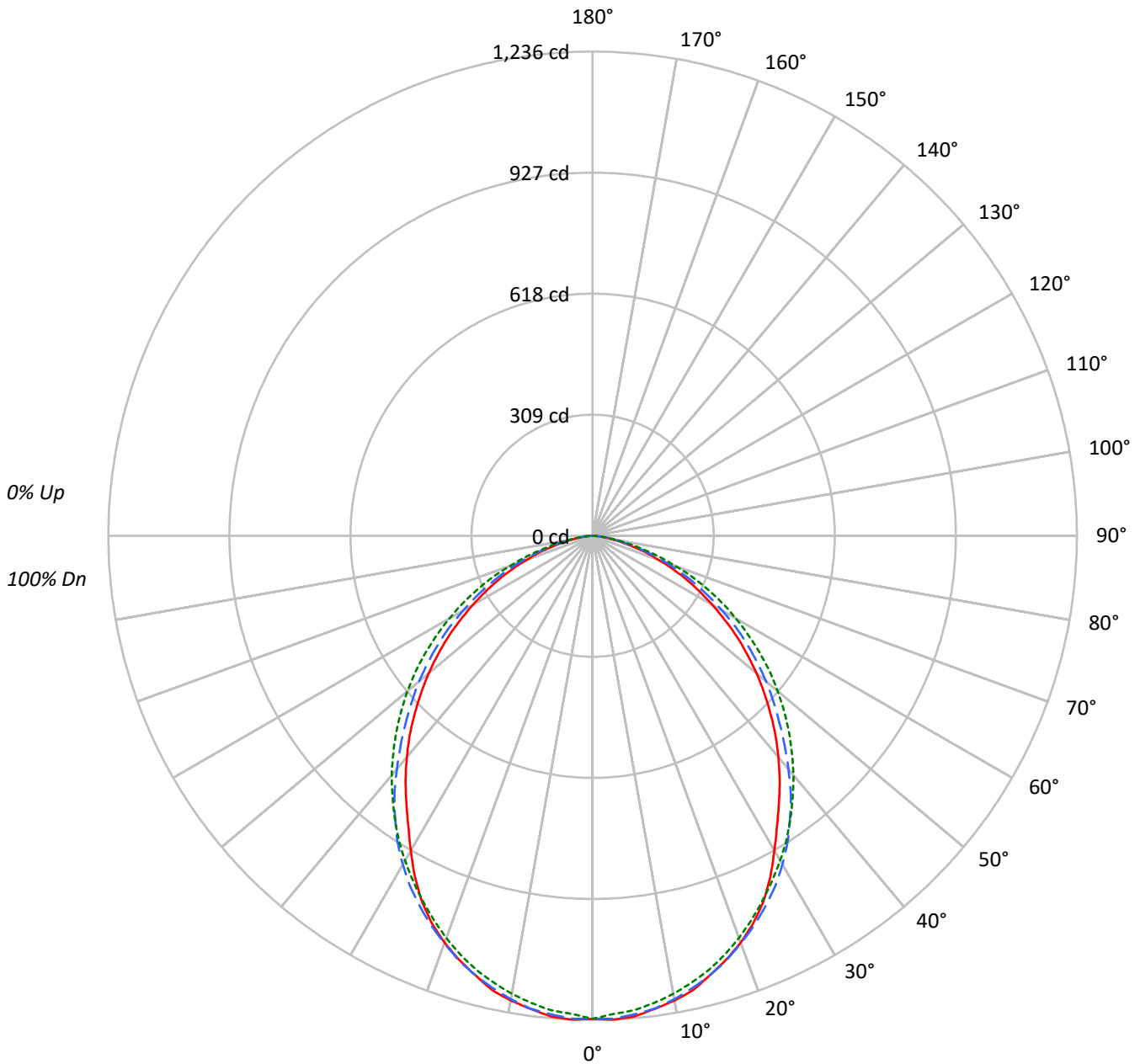
Lumens per Lamp: N/A  
Luminaire Lumens: 2851.0 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
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				
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29				28

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

	0°	45°	90°
0°	6636	6636	6636
5°	6654	6626	6569
10°	6583	6565	6490
15°	6466	6466	6392
20°	6329	6337	6256
25°	6121	6197	6098
30°	5764	6023	5949
35°	5446	5773	5782
40°	5181	5461	5604
45°	4885	5130	5393
50°	4573	4834	5164
55°	4218	4498	4885
60°	3799	4104	4542
65°	3354	3650	4132
70°	2795	3108	3511
75°	2196	2483	2749
80°	1571	1748	1937
85°	1025	1025	963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.1	4.1
10°-20°	326.1	11.4
20°-30°	476.6	16.7
30°-40°	541.0	19.0
40°-50°	522.2	18.3
50°-60°	430.8	15.1
60°-70°	286.9	10.1
70°-80°	128.4	4.5
80°-90°	23.0	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	918.8	32.2
0°-40°	1459.8	51.2
0°-60°	2412.8	84.6
0°-90°	2851.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2851.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1232	1231	1226	1220	1216	117
15°	1160	1163	1160	1155	1147	327
25°	1031	1039	1044	1036	1027	472
35°	829	840	879	883	880	519
45°	642	653	674	705	709	495
55°	450	457	479	506	521	401
65°	263	270	287	307	324	261
75°	106	111	119	125	132	116
85°	17	17	17	16	16	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1233.0	1233.0	1233.0	1233.0	1233.0
2.5°	1236.3	1236.8	1233.9	1226.4	1221.6
5°	1231.6	1231.1	1226.4	1219.7	1215.9
7.5°	1217.8	1218.8	1217.4	1207.9	1202.7
10°	1204.6	1205.0	1201.2	1193.7	1187.5
12.5°	1187.5	1187.0	1181.8	1178.0	1168.1
15°	1160.5	1163.4	1160.5	1155.3	1147.2
17.5°	1134.5	1134.5	1136.4	1127.4	1121.2
20°	1105.1	1106.5	1106.5	1099.4	1092.3
22.5°	1071.0	1075.2	1076.7	1069.1	1060.6
25°	1030.7	1038.8	1043.5	1035.9	1026.9
27.5°	981.9	994.3	1008.5	1002.8	992.8
30°	927.5	945.5	969.1	964.4	957.3
32.5°	875.8	893.8	926.5	924.6	920.8
35°	828.9	840.3	878.7	883.4	880.1
37.5°	784.4	794.8	830.8	841.7	838.9
40°	737.5	748.9	777.3	796.7	797.7
42.5°	691.1	702.0	725.2	753.1	753.1
45°	641.8	652.7	674.0	704.8	708.6
47.5°	593.5	604.9	625.7	656.5	662.7
50°	546.2	556.6	577.4	607.3	616.7
52.5°	496.9	508.3	528.6	556.1	569.8
55°	449.5	457.1	479.4	505.9	520.6
57.5°	400.3	407.4	432.5	455.2	470.4
60°	352.9	361.9	381.3	404.5	422.0
62.5°	307.4	316.9	333.5	353.8	373.7
65°	263.4	270.5	286.6	306.9	324.5
67.5°	220.7	226.9	243.0	257.2	275.7
70°	177.6	185.7	197.5	211.3	223.1
72.5°	143.1	146.4	156.3	166.3	178.6
75°	105.6	111.3	119.4	125.1	132.2
77.5°	75.8	79.1	83.8	88.6	95.2
80°	50.7	52.1	56.4	57.3	62.5
82.5°	30.8	31.7	32.7	33.2	35.1
85°	16.6	16.6	16.6	15.6	15.6
87.5°	9.5	9.5	8.1	6.6	4.7
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







(END OF REPORT)