

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: P554283

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-93-94-EDD**

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: P554283  
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-LD4-1LO-40-UNV-93-94-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

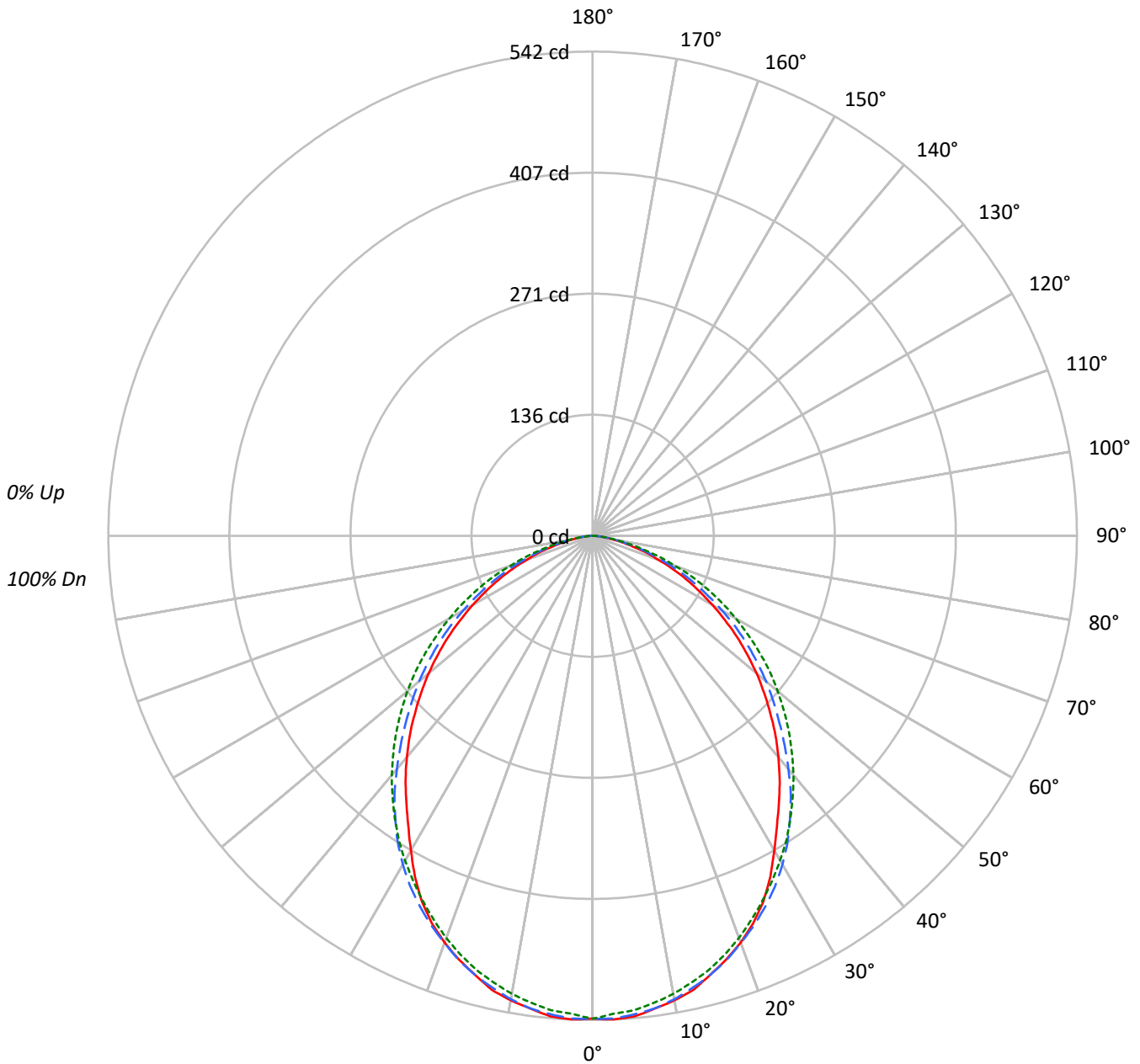
Lumens per Lamp: N/A  
Luminaire Lumens: 1250.0 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	2909	2909	2909
5°	2917	2905	2880
10°	2886	2878	2846
15°	2835	2835	2803
20°	2775	2778	2743
25°	2684	2717	2674
30°	2527	2641	2608
35°	2388	2531	2535
40°	2272	2394	2457
45°	2142	2249	2365
50°	2005	2120	2264
55°	1849	1972	2141
60°	1665	1800	1991
65°	1471	1599	1812
70°	1226	1363	1539
75°	963	1088	1204
80°	688	766	849
85°	451	451	426



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.9	4.1
10°-20°	143.0	11.4
20°-30°	208.9	16.7
30°-40°	237.2	19.0
40°-50°	229.0	18.3
50°-60°	188.9	15.1
60°-70°	125.8	10.1
70°-80°	56.3	4.5
80°-90°	10.1	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°	402.8	32.2
0°-40°	640.0	51.2
0°-60°	1057.8	84.6
0°-90°	1250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1250.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	541	541	541	541	541	
5°	540	540	538	535	533	51
15°	509	510	509	506	503	143
25°	452	455	458	454	450	207
35°	363	368	385	387	386	228
45°	281	286	296	309	311	217
55°	197	200	210	222	228	176
65°	116	119	126	135	142	115
75°	46	49	52	55	58	51
85°	7	7	7	7	7	10
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	540.6	540.6	540.6	540.6	540.6
2.5°	542.0	542.3	541.0	537.7	535.6
5°	540.0	539.8	537.7	534.8	533.1
7.5°	533.9	534.4	533.7	529.6	527.3
10°	528.1	528.3	526.7	523.4	520.7
12.5°	520.7	520.4	518.2	516.5	512.1
15°	508.8	510.1	508.8	506.5	503.0
17.5°	497.4	497.4	498.2	494.3	491.6
20°	484.5	485.1	485.1	482.0	478.9
22.5°	469.6	471.4	472.1	468.7	465.0
25°	451.9	455.4	457.5	454.2	450.3
27.5°	430.5	435.9	442.2	439.7	435.3
30°	406.6	414.5	424.9	422.8	419.7
32.5°	384.0	391.9	406.2	405.4	403.7
35°	363.4	368.4	385.2	387.3	385.9
37.5°	343.9	348.5	364.3	369.0	367.8
40°	323.4	328.3	340.8	349.3	349.7
42.5°	303.0	307.8	318.0	330.2	330.2
45°	281.4	286.2	295.5	309.0	310.7
47.5°	260.2	265.2	274.3	287.8	290.5
50°	239.5	244.0	253.2	266.2	270.4
52.5°	217.9	222.8	231.8	243.8	249.8
55°	197.1	200.4	210.2	221.8	228.2
57.5°	175.5	178.6	189.6	199.6	206.2
60°	154.7	158.7	167.2	177.4	185.0
62.5°	134.8	138.9	146.2	155.1	163.9
65°	115.5	118.6	125.6	134.6	142.3
67.5°	96.8	99.5	106.5	112.8	120.9
70°	77.9	81.4	86.6	92.6	97.8
72.5°	62.7	64.2	68.5	72.9	78.3
75°	46.3	48.8	52.3	54.8	57.9
77.5°	33.2	34.7	36.8	38.8	41.7
80°	22.2	22.8	24.7	25.1	27.4
82.5°	13.5	13.9	14.3	14.5	15.4
85°	7.3	7.3	7.3	6.9	6.9
87.5°	4.2	4.2	3.5	2.9	2.1
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)