

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: P555004

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-80-96-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: P555004  
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-LD4-2LO-40-UNV-80-96-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND  
4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

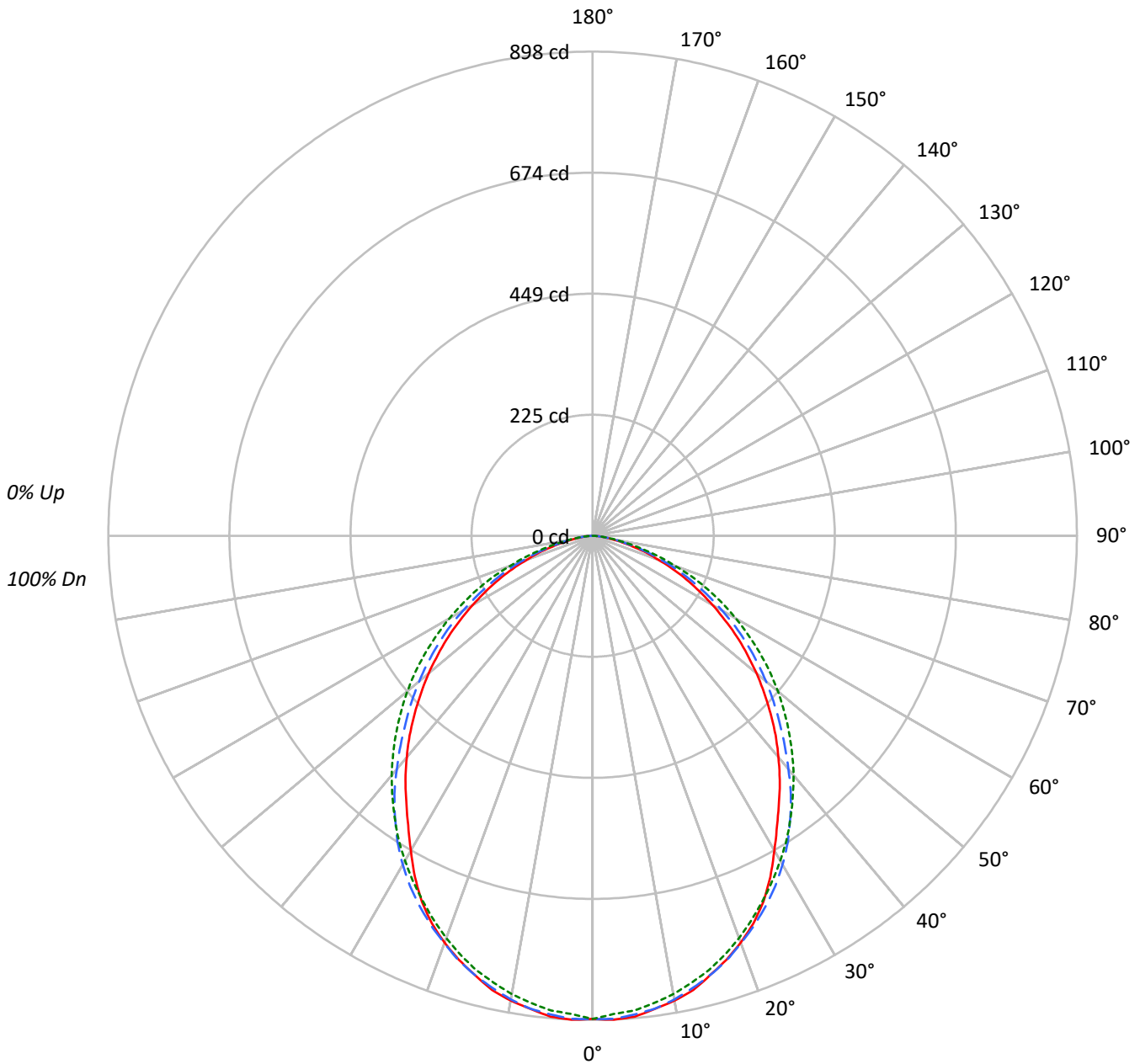
Lumens per Lamp: N/A  
Luminaire Lumens: 2072.0 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
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°	4823	4823	4823
5°	4836	4815	4774
10°	4784	4771	4716
15°	4699	4699	4646
20°	4600	4606	4546
25°	4448	4504	4432
30°	4189	4377	4323
35°	3958	4196	4202
40°	3766	3969	4073
45°	3551	3729	3920
50°	3323	3513	3753
55°	3065	3269	3550
60°	2761	2983	3301
65°	2437	2653	3003
70°	2031	2260	2551
75°	1597	1805	1996
80°	1141	1271	1407
85°	741	741	704



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.4	4.1
10°-20°	237.0	11.4
20°-30°	346.4	16.7
30°-40°	393.2	19.0
40°-50°	379.5	18.3
50°-60°	313.1	15.1
60°-70°	208.5	10.1
70°-80°	93.3	4.5
80°-90°	16.7	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°	667.7	32.2
0°-40°	1060.9	51.2
0°-60°	1753.5	84.6
0°-90°	2072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2072.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	895	895	891	886	884	85
15°	843	846	843	840	834	238
25°	749	755	758	753	746	343
35°	602	611	639	642	640	377
45°	466	474	490	512	515	360
55°	327	332	348	368	378	292
65°	191	197	208	223	236	190
75°	77	81	87	91	96	84
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	896.1	896.1	896.1	896.1	896.1
2.5°	898.5	898.8	896.8	891.3	887.8
5°	895.1	894.7	891.3	886.4	883.7
7.5°	885.1	885.8	884.7	877.8	874.1
10°	875.4	875.8	873.0	867.5	863.0
12.5°	863.0	862.7	858.9	856.2	848.9
15°	843.4	845.5	843.4	839.6	833.8
17.5°	824.5	824.5	825.9	819.3	814.8
20°	803.1	804.2	804.2	799.0	793.8
22.5°	778.4	781.5	782.5	777.0	770.8
25°	749.1	754.9	758.4	752.9	746.3
27.5°	713.6	722.6	732.9	728.8	721.6
30°	674.0	687.1	704.3	700.9	695.7
32.5°	636.5	649.6	673.4	672.0	669.2
35°	602.4	610.7	638.6	642.0	639.6
37.5°	570.1	577.7	603.8	611.7	609.7
40°	536.0	544.3	564.9	579.0	579.7
42.5°	502.3	510.2	527.0	547.4	547.4
45°	466.5	474.4	489.9	512.2	515.0
47.5°	431.3	439.6	454.8	477.1	481.6
50°	396.9	404.5	419.6	441.3	448.2
52.5°	361.1	369.4	384.2	404.2	414.1
55°	326.7	332.2	348.4	367.7	378.3
57.5°	290.9	296.1	314.3	330.8	341.8
60°	256.5	263.0	277.1	294.0	306.7
62.5°	223.4	230.3	242.4	257.2	271.6
65°	191.4	196.6	208.3	223.1	235.8
67.5°	160.4	164.9	176.6	186.9	200.4
70°	129.1	134.9	143.6	153.5	162.1
72.5°	104.0	106.4	113.6	120.8	129.8
75°	76.8	80.9	86.8	90.9	96.0
77.5°	55.1	57.5	60.9	64.4	69.2
80°	36.8	37.9	41.0	41.7	45.4
82.5°	22.4	23.1	23.8	24.1	25.5
85°	12.0	12.0	12.0	11.4	11.4
87.5°	6.9	6.9	5.9	4.8	3.4
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)