

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: P555002

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-80-94-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: P555002  
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-80-94-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND  
4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

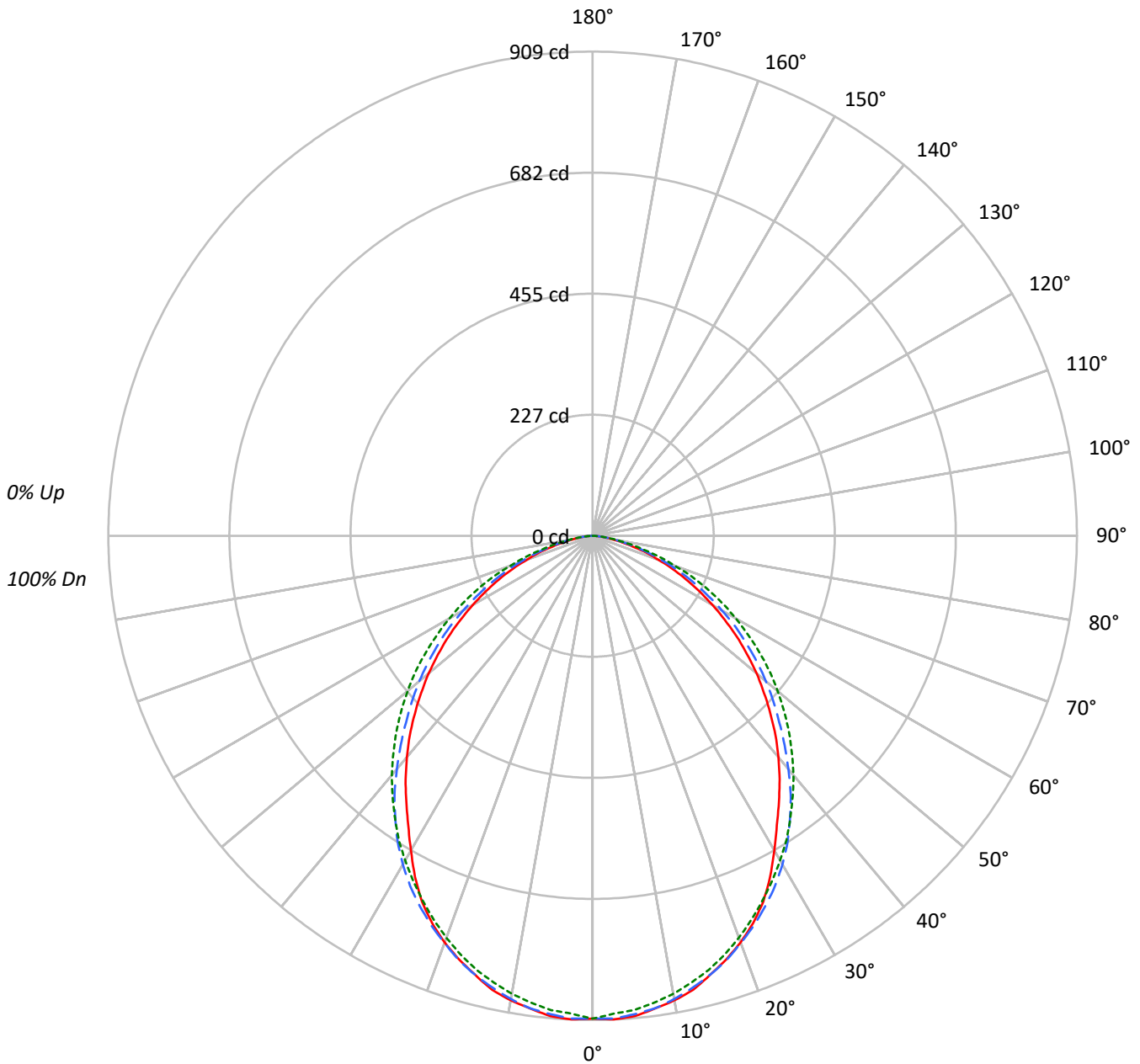
Lumens per Lamp: N/A  
Luminaire Lumens: 2096.0 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	4879	4879	4879
5°	4891	4871	4829
10°	4840	4826	4771
15°	4754	4754	4699
20°	4653	4659	4599
25°	4500	4556	4483
30°	4238	4428	4374
35°	4004	4244	4251
40°	3809	4015	4120
45°	3592	3771	3965
50°	3362	3554	3796
55°	3101	3307	3591
60°	2792	3017	3340
65°	2465	2683	3037
70°	2055	2285	2581
75°	1616	1826	2021
80°	1156	1283	1426
85°	753	753	710



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.3	4.1
10°-20°	239.8	11.4
20°-30°	350.4	16.7
30°-40°	397.7	19.0
40°-50°	383.9	18.3
50°-60°	316.7	15.1
60°-70°	210.9	10.1
70°-80°	94.4	4.5
80°-90°	16.9	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°	675.5	32.2
0°-40°	1073.2	51.2
0°-60°	1773.8	84.6
0°-90°	2096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2096.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	906	906	906	906	906	
5°	905	905	902	897	894	86
15°	853	855	853	849	843	241
25°	758	764	767	762	755	347
35°	609	618	646	650	647	382
45°	472	480	496	518	521	364
55°	330	336	352	372	383	295
65°	194	199	211	226	238	192
75°	78	82	88	92	97	85
85°	12	12	12	12	12	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	906.5	906.5	906.5	906.5	906.5
2.5°	908.9	909.3	907.2	901.6	898.1
5°	905.4	905.1	901.6	896.7	893.9
7.5°	895.3	896.0	895.0	888.0	884.2
10°	885.6	885.9	883.1	877.6	873.0
12.5°	873.0	872.7	868.9	866.1	858.8
15°	853.2	855.3	853.2	849.4	843.4
17.5°	834.0	834.0	835.4	828.8	824.3
20°	812.4	813.5	813.5	808.3	803.0
22.5°	787.4	790.5	791.5	786.0	779.7
25°	757.8	763.7	767.2	761.6	755.0
27.5°	721.9	731.0	741.4	737.2	729.9
30°	681.9	695.1	712.5	709.0	703.8
32.5°	643.9	657.1	681.2	679.8	677.0
35°	609.4	617.8	646.0	649.5	647.0
37.5°	576.7	584.3	610.8	618.8	616.7
40°	542.2	550.6	571.5	585.7	586.4
42.5°	508.1	516.1	533.2	553.7	553.7
45°	471.9	479.9	495.5	518.2	521.0
47.5°	436.3	444.7	460.0	482.7	487.2
50°	401.5	409.2	424.5	446.4	453.4
52.5°	365.3	373.7	388.6	408.8	418.9
55°	330.5	336.1	352.4	371.9	382.7
57.5°	294.3	299.5	317.9	334.7	345.8
60°	259.4	266.1	280.3	297.4	310.3
62.5°	226.0	233.0	245.2	260.1	274.8
65°	193.6	198.8	210.7	225.7	238.5
67.5°	162.3	166.8	178.6	189.1	202.7
70°	130.6	136.5	145.2	155.3	164.0
72.5°	105.2	107.6	114.9	122.2	131.3
75°	77.7	81.8	87.8	91.9	97.2
77.5°	55.7	58.2	61.6	65.1	70.0
80°	37.3	38.3	41.4	42.1	46.0
82.5°	22.6	23.3	24.0	24.4	25.8
85°	12.2	12.2	12.2	11.5	11.5
87.5°	7.0	7.0	5.9	4.9	3.5
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)