

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: P555065

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-80-88-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: P555065  
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-50-UNV-80-88-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

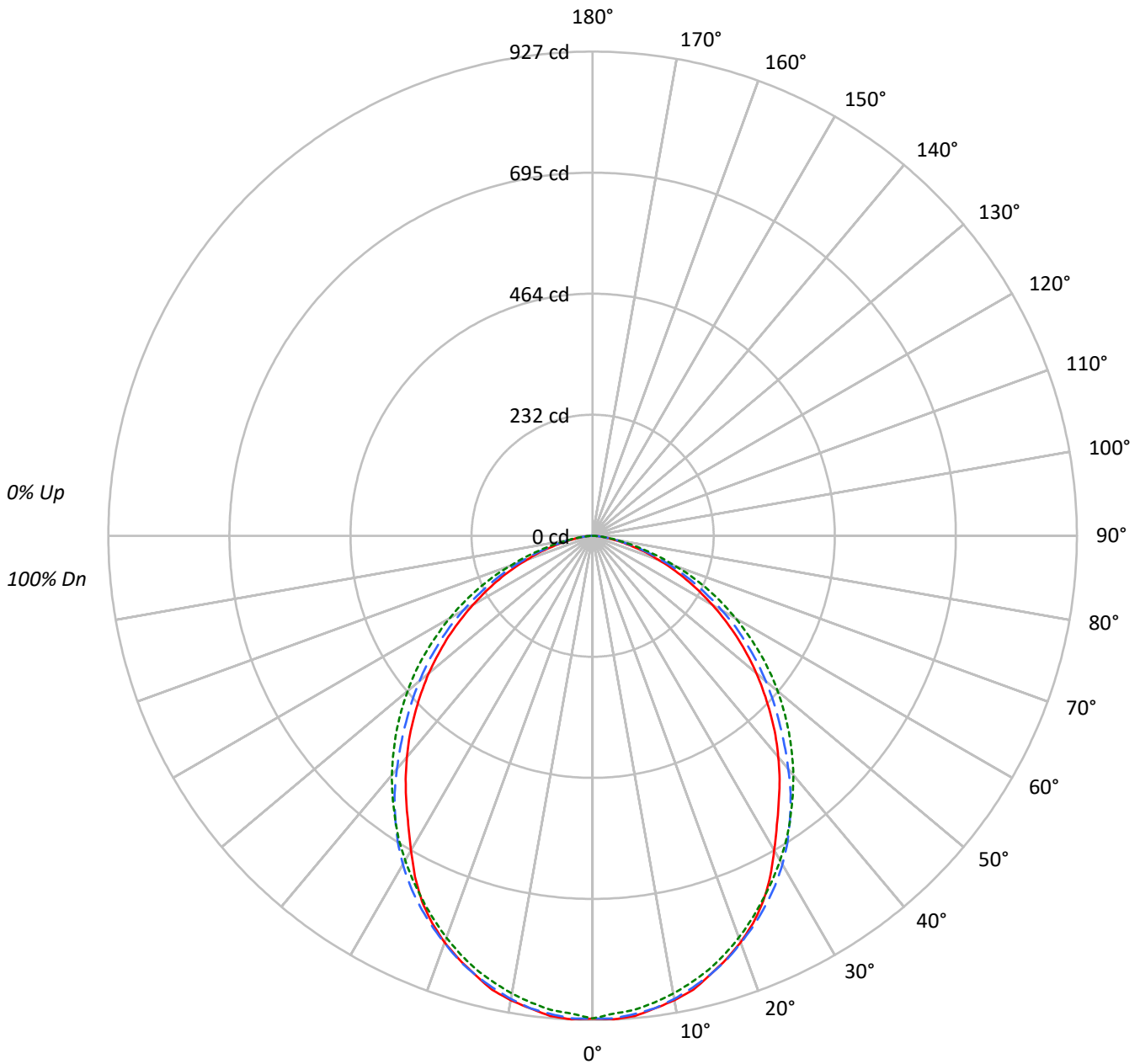
Lumens per Lamp: N/A  
Luminaire Lumens: 2137.0 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (Ain): 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°	4974	4974	4974
5°	4987	4966	4924
10°	4934	4921	4864
15°	4847	4847	4791
20°	4744	4750	4689
25°	4588	4645	4571
30°	4320	4514	4460
35°	4082	4327	4334
40°	3884	4093	4201
45°	3662	3845	4043
50°	3428	3624	3871
55°	3161	3371	3661
60°	2847	3076	3406
65°	2514	2735	3097
70°	2094	2330	2631
75°	1647	1861	2061
80°	1178	1311	1454
85°	766	766	722



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.0	4.1
10°-20°	244.5	11.4
20°-30°	357.2	16.7
30°-40°	405.5	19.0
40°-50°	391.4	18.3
50°-60°	322.9	15.1
60°-70°	215.0	10.1
70°-80°	96.2	4.5
80°-90°	17.2	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°	688.7	32.2
0°-40°	1094.2	51.2
0°-60°	1808.5	84.6
0°-90°	2137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2137.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	923	923	919	914	911	87
15°	870	872	870	866	860	245
25°	773	779	782	776	770	354
35°	621	630	659	662	660	389
45°	481	489	505	528	531	371
55°	337	343	359	379	390	301
65°	197	203	215	230	243	196
75°	79	83	90	94	99	87
85°	12	12	12	12	12	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	924.2	924.2	924.2	924.2	924.2
2.5°	926.7	927.0	924.9	919.2	915.7
5°	923.1	922.8	919.2	914.3	911.4
7.5°	912.8	913.5	912.5	905.4	901.5
10°	902.9	903.2	900.4	894.7	890.1
12.5°	890.1	889.8	885.9	883.0	875.6
15°	869.9	872.0	869.9	866.0	859.9
17.5°	850.3	850.3	851.8	845.0	840.4
20°	828.3	829.4	829.4	824.1	818.7
22.5°	802.8	806.0	807.0	801.3	795.0
25°	772.6	778.6	782.2	776.5	769.8
27.5°	736.0	745.3	755.9	751.6	744.2
30°	695.2	708.7	726.4	722.9	717.6
32.5°	656.5	670.0	694.5	693.1	690.2
35°	621.3	629.9	658.6	662.2	659.7
37.5°	588.0	595.8	622.8	630.9	628.8
40°	552.8	561.3	582.6	597.2	597.9
42.5°	518.0	526.2	543.6	564.5	564.5
45°	481.1	489.3	505.2	528.3	531.2
47.5°	444.9	453.4	469.0	492.1	496.7
50°	409.4	417.2	432.8	455.2	462.3
52.5°	372.4	381.0	396.2	416.8	427.1
55°	336.9	342.6	359.3	379.2	390.2
57.5°	300.0	305.3	324.2	341.2	352.6
60°	264.5	271.3	285.8	303.2	316.4
62.5°	230.4	237.5	250.0	265.2	280.1
65°	197.4	202.7	214.8	230.1	243.2
67.5°	165.5	170.1	182.1	192.8	206.6
70°	133.1	139.2	148.1	158.4	167.2
72.5°	107.2	109.7	117.2	124.6	133.9
75°	79.2	83.4	89.5	93.7	99.1
77.5°	56.8	59.3	62.8	66.4	71.4
80°	38.0	39.1	42.3	43.0	46.9
82.5°	23.1	23.8	24.5	24.9	26.3
85°	12.4	12.4	12.4	11.7	11.7
87.5°	7.1	7.1	6.0	5.0	3.6
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)