

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: P555070

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-80-97-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: P555070  
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-80-97-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND  
5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

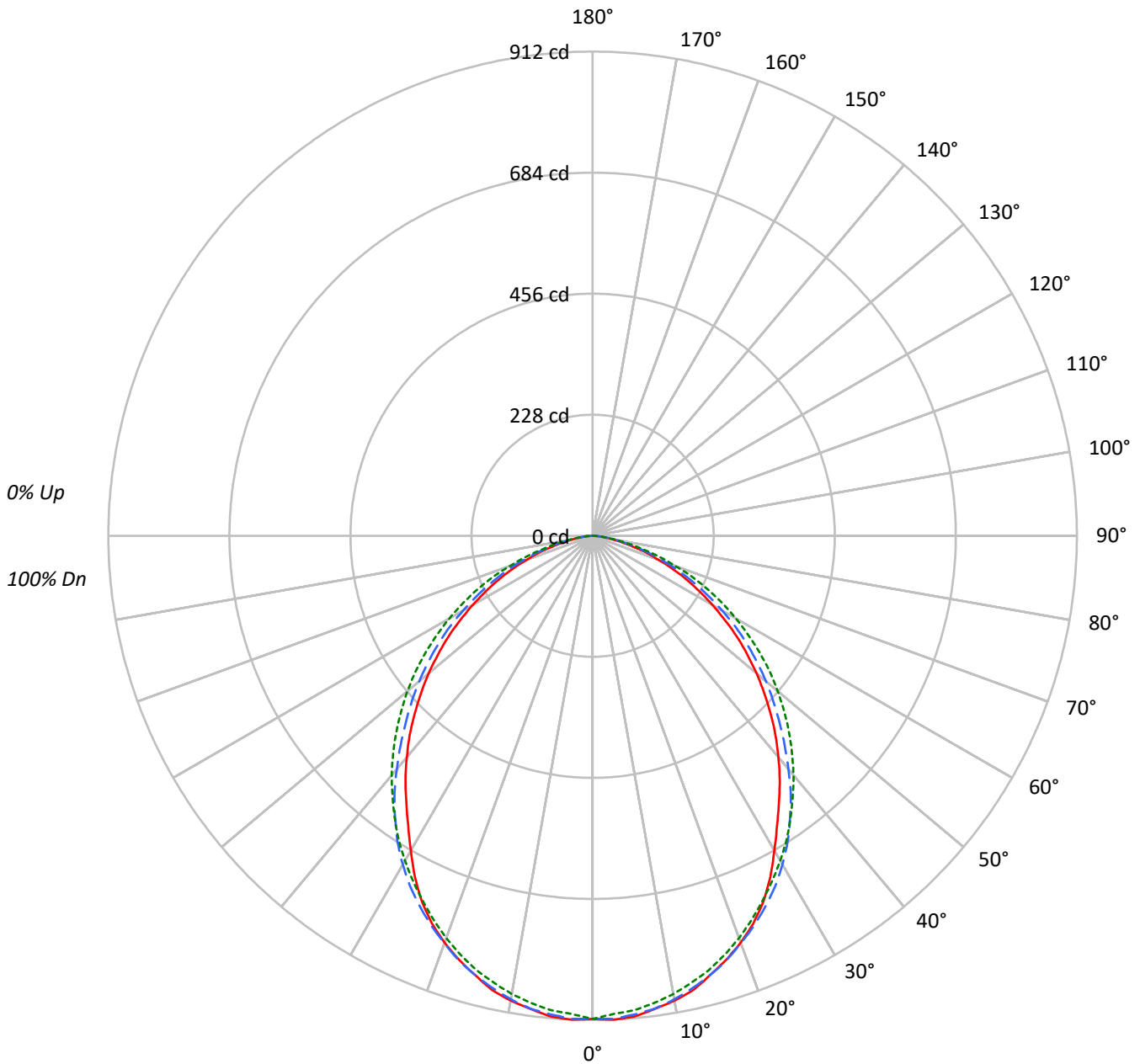
Lumens per Lamp: N/A  
Luminaire Lumens: 2104.0 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P555070

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-80-97-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P555070

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-80-97-EDD-90

**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°	4897	4897	4897
5°	4910	4889	4848
10°	4858	4845	4790
15°	4772	4772	4718
20°	4671	4677	4617
25°	4517	4573	4501
30°	4254	4445	4391
35°	4019	4260	4267
40°	3824	4030	4136
45°	3605	3786	3981
50°	3375	3568	3810
55°	3112	3320	3605
60°	2803	3029	3353
65°	2476	2693	3050
70°	2063	2294	2590
75°	1622	1832	2027
80°	1159	1289	1429
85°	753	753	710



TEST NUMBER: P555070

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-80-97-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.7	4.1
10°-20°	240.7	11.4
20°-30°	351.7	16.7
30°-40°	399.2	19.0
40°-50°	385.4	18.3
50°-60°	317.9	15.1
60°-70°	211.7	10.1
70°-80°	94.7	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°	678.1	32.2
0°-40°	1077.3	51.2
0°-60°	1780.6	84.6
0°-90°	2104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2104.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	909	908	905	900	897	86
15°	856	858	856	853	847	241
25°	761	767	770	764	758	348
35°	612	620	648	652	650	383
45°	474	482	497	520	523	365
55°	332	337	354	373	384	296
65°	194	200	212	226	240	193
75°	78	82	88	92	98	85
85°	12	12	12	12	12	16
90°	0	0	0	0	0	



TEST NUMBER: P555070

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-80-97-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	909.9	909.9	909.9	909.9	909.9
2.5°	912.4	912.7	910.6	905.0	901.5
5°	908.9	908.5	905.0	900.1	897.3
7.5°	898.7	899.4	898.4	891.4	887.6
10°	889.0	889.3	886.5	880.9	876.4
12.5°	876.4	876.0	872.2	869.4	862.0
15°	856.4	858.5	856.4	852.6	846.7
17.5°	837.2	837.2	838.6	832.0	827.4
20°	815.5	816.6	816.6	811.3	806.1
22.5°	790.4	793.5	794.6	789.0	782.7
25°	760.7	766.6	770.1	764.5	757.9
27.5°	724.7	733.7	744.2	740.0	732.7
30°	684.5	697.7	715.2	711.7	706.5
32.5°	646.4	659.6	683.8	682.4	679.6
35°	611.7	620.1	648.4	651.9	649.5
37.5°	578.9	586.6	613.1	621.2	619.1
40°	544.3	552.7	573.6	588.0	588.7
42.5°	510.0	518.1	535.2	555.8	555.8
45°	473.7	481.7	497.4	520.2	523.0
47.5°	438.0	446.4	461.8	484.5	489.0
50°	403.1	410.7	426.1	448.1	455.1
52.5°	366.7	375.1	390.1	410.4	420.5
55°	331.7	337.3	353.8	373.3	384.2
57.5°	295.4	300.6	319.2	335.9	347.1
60°	260.4	267.1	281.4	298.5	311.5
62.5°	226.9	233.9	246.1	261.1	275.8
65°	194.4	199.6	211.5	226.5	239.5
67.5°	162.9	167.4	179.3	189.8	203.4
70°	131.1	137.0	145.8	155.9	164.6
72.5°	105.6	108.0	115.4	122.7	131.8
75°	78.0	82.1	88.1	92.3	97.5
77.5°	55.9	58.4	61.9	65.4	70.3
80°	37.4	38.5	41.6	42.3	46.1
82.5°	22.7	23.4	24.1	24.5	25.9
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)