

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: P555119

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-93-97-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: P555119  
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-93-97-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

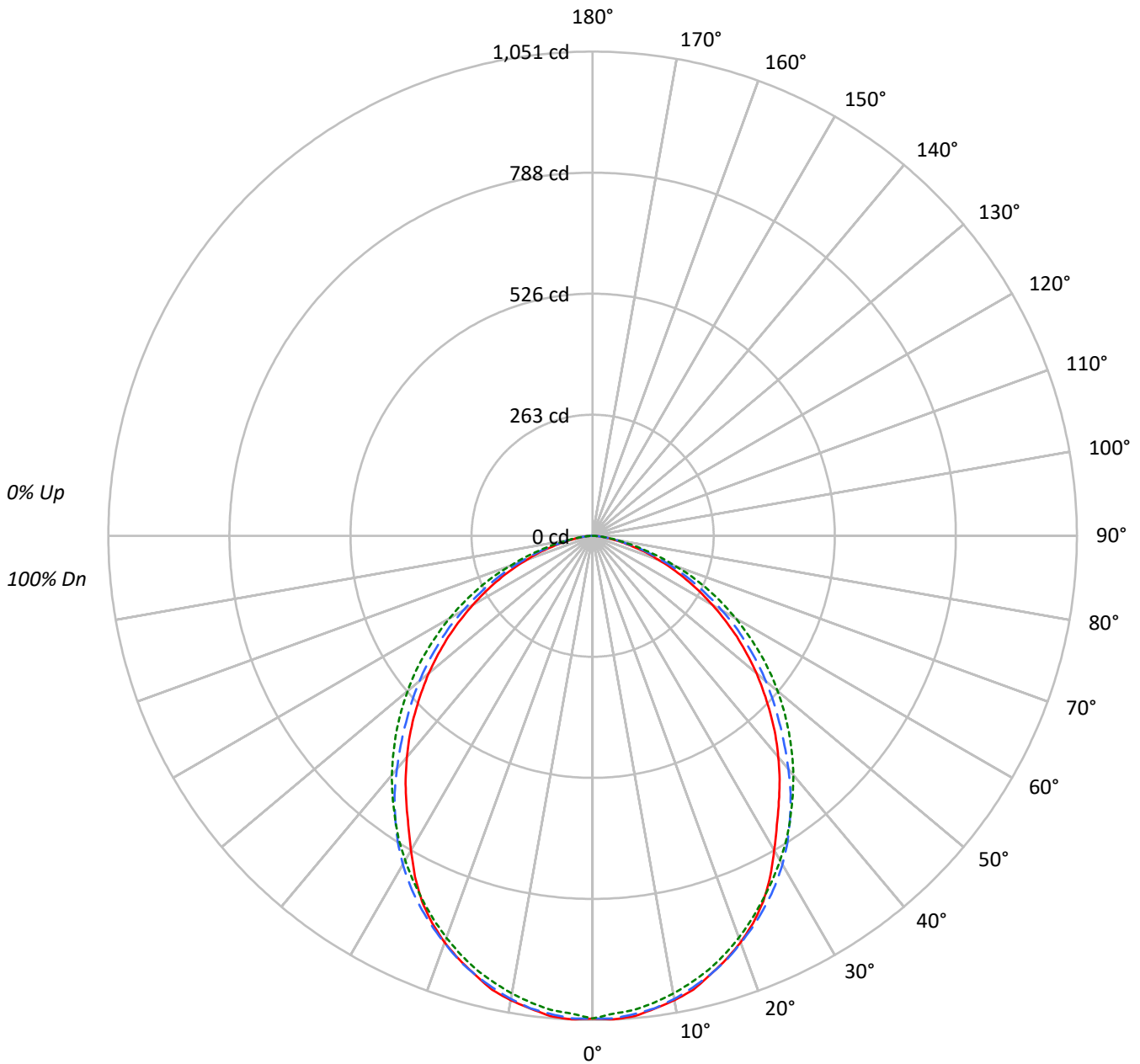
Lumens per Lamp: N/A  
Luminaire Lumens: 2423.0 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P555119

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-93-97-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P555119

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-93-97-EDD

**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°	5640	5640	5640
5°	5655	5631	5583
10°	5595	5579	5515
15°	5495	5495	5433
20°	5379	5386	5317
25°	5202	5267	5183
30°	4898	5119	5056
35°	4629	4907	4914
40°	4404	4641	4763
45°	4152	4360	4583
50°	3887	4109	4388
55°	3584	3823	4151
60°	3228	3489	3861
65°	2850	3102	3512
70°	2376	2642	2984
75°	1867	2109	2335
80°	1336	1485	1646
85°	871	871	821



TEST NUMBER: P555119

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-93-97-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.7	4.1
10°-20°	277.2	11.4
20°-30°	405.0	16.7
30°-40°	459.8	19.0
40°-50°	443.8	18.3
50°-60°	366.1	15.1
60°-70°	243.8	10.1
70°-80°	109.1	4.5
80°-90°	19.5	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°	780.9	32.2
0°-40°	1240.6	51.2
0°-60°	2050.6	84.6
0°-90°	2423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2423.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1047	1046	1042	1037	1033	99
15°	986	989	986	982	975	278
25°	876	883	887	880	873	401
35°	704	714	747	751	748	441
45°	546	555	573	599	602	421
55°	382	388	407	430	442	341
65°	224	230	244	261	276	222
75°	90	95	101	106	112	98
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



TEST NUMBER: P555119

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-93-97-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1047.9	1047.9	1047.9	1047.9	1047.9
2.5°	1050.7	1051.1	1048.7	1042.2	1038.2
5°	1046.7	1046.3	1042.2	1036.6	1033.4
7.5°	1035.0	1035.8	1034.6	1026.5	1022.1
10°	1023.7	1024.1	1020.9	1014.5	1009.2
12.5°	1009.2	1008.8	1004.4	1001.2	992.7
15°	986.3	988.7	986.3	981.9	975.0
17.5°	964.2	964.2	965.8	958.1	952.9
20°	939.2	940.4	940.4	934.4	928.3
22.5°	910.2	913.8	915.0	908.6	901.4
25°	876.0	882.8	886.9	880.4	872.8
27.5°	834.5	845.0	857.1	852.2	843.8
30°	788.2	803.5	823.7	819.6	813.6
32.5°	744.3	759.6	787.4	785.8	782.6
35°	704.5	714.2	746.8	750.8	748.0
37.5°	666.7	675.5	706.1	715.4	712.9
40°	626.8	636.5	660.6	677.1	677.9
42.5°	587.3	596.6	616.3	640.1	640.1
45°	545.5	554.7	572.9	599.0	602.2
47.5°	504.4	514.1	531.8	558.0	563.2
50°	464.2	473.0	490.7	516.1	524.1
52.5°	422.3	432.0	449.3	472.6	484.3
55°	382.0	388.5	407.4	429.9	442.4
57.5°	340.2	346.2	367.5	386.9	399.8
60°	299.9	307.6	324.1	343.8	358.7
62.5°	261.3	269.3	283.4	300.7	317.6
65°	223.8	229.9	243.6	260.9	275.8
67.5°	187.6	192.8	206.5	218.6	234.3
70°	151.0	157.8	167.9	179.5	189.6
72.5°	121.6	124.4	132.8	141.3	151.8
75°	89.8	94.6	101.4	106.3	112.3
77.5°	64.4	67.2	71.3	75.3	80.9
80°	43.1	44.3	47.9	48.7	53.1
82.5°	26.2	27.0	27.8	28.2	29.8
85°	14.1	14.1	14.1	13.3	13.3
87.5°	8.1	8.1	6.8	5.6	4.0
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)