

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: P555186

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-80-85-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: P555186  
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-LD4-2STD-35-UNV-80-85-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

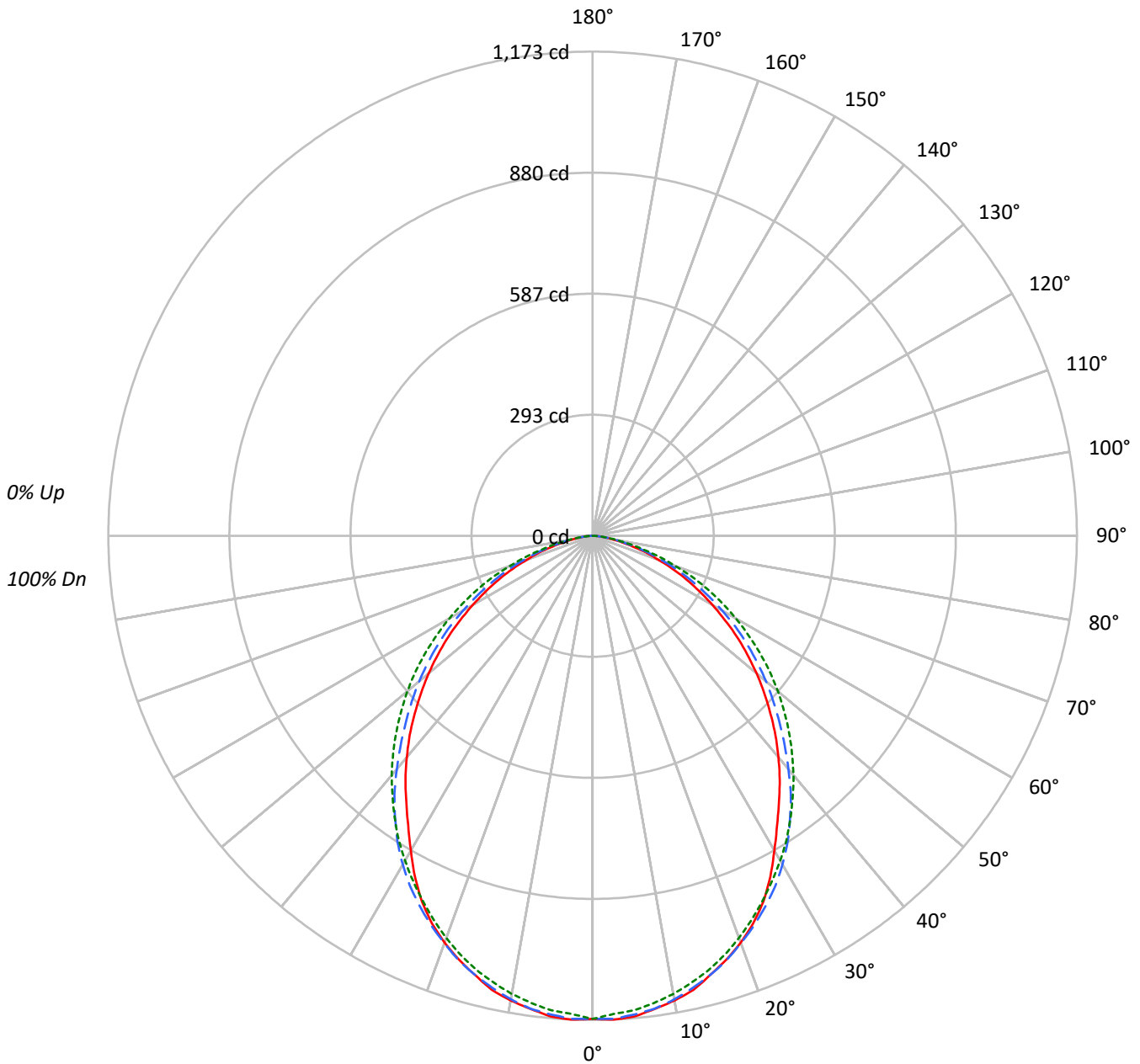
Lumens per Lamp: N/A  
Luminaire Lumens: 2706.0 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6299	6299	6299
5°	6315	6289	6235
10°	6248	6231	6160
15°	6137	6137	6067
20°	6007	6015	5938
25°	5809	5881	5788
30°	5471	5717	5647
35°	5169	5480	5488
40°	4918	5184	5319
45°	4637	4870	5119
50°	4340	4588	4901
55°	4004	4269	4636
60°	3605	3895	4312
65°	3184	3464	3922
70°	2653	2950	3333
75°	2086	2356	2608
80°	1491	1658	1838
85°	969	969	914



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.2	4.1
10°-20°	309.5	11.4
20°-30°	452.3	16.7
30°-40°	513.5	19.0
40°-50°	495.7	18.3
50°-60°	408.9	15.1
60°-70°	272.3	10.1
70°-80°	121.9	4.5
80°-90°	21.8	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°	872.1	32.2
0°-40°	1385.5	51.2
0°-60°	2290.1	84.6
0°-90°	2706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2706.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1169	1168	1164	1158	1154	111
15°	1102	1104	1102	1096	1089	311
25°	978	986	990	983	975	448
35°	787	798	834	838	835	493
45°	609	620	640	669	673	470
55°	427	434	455	480	494	381
65°	250	257	272	291	308	248
75°	100	106	113	119	125	110
85°	16	16	16	15	15	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1170.3	1170.3	1170.3	1170.3	1170.3
2.5°	1173.4	1173.9	1171.2	1164.0	1159.5
5°	1168.9	1168.5	1164.0	1157.7	1154.1
7.5°	1155.9	1156.8	1155.4	1146.4	1141.5
10°	1143.3	1143.7	1140.2	1133.0	1127.1
12.5°	1127.1	1126.7	1121.7	1118.1	1108.7
15°	1101.5	1104.2	1101.5	1096.5	1088.9
17.5°	1076.8	1076.8	1078.6	1070.0	1064.2
20°	1048.9	1050.2	1050.2	1043.5	1036.7
22.5°	1016.5	1020.6	1021.9	1014.7	1006.6
25°	978.3	985.9	990.4	983.2	974.7
27.5°	932.0	943.7	957.2	951.8	942.3
30°	880.3	897.4	919.9	915.4	908.6
32.5°	831.3	848.4	879.4	877.6	874.0
35°	786.8	797.6	834.0	838.5	835.3
37.5°	744.5	754.4	788.6	798.9	796.2
40°	700.0	710.8	737.8	756.2	757.1
42.5°	655.9	666.3	688.3	714.8	714.8
45°	609.2	619.5	639.8	669.0	672.6
47.5°	563.3	574.1	593.9	623.1	629.0
50°	518.4	528.3	548.0	576.4	585.4
52.5°	471.6	482.4	501.7	527.8	540.9
55°	426.7	433.9	455.0	480.2	494.1
57.5°	379.9	386.6	410.5	432.1	446.4
60°	334.9	343.5	361.9	383.9	400.6
62.5°	291.8	300.8	316.5	335.8	354.7
65°	250.0	256.7	272.0	291.3	308.0
67.5°	209.5	215.4	230.6	244.1	261.7
70°	168.6	176.2	187.5	200.5	211.8
72.5°	135.8	138.9	148.4	157.8	169.5
75°	100.3	105.7	113.3	118.7	125.4
77.5°	71.9	75.1	79.6	84.1	90.4
80°	48.1	49.5	53.5	54.4	59.3
82.5°	29.2	30.1	31.0	31.5	33.3
85°	15.7	15.7	15.7	14.8	14.8
87.5°	9.0	9.0	7.6	6.3	4.5
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)