

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: P554878

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-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: P554878  
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-30-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  
3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

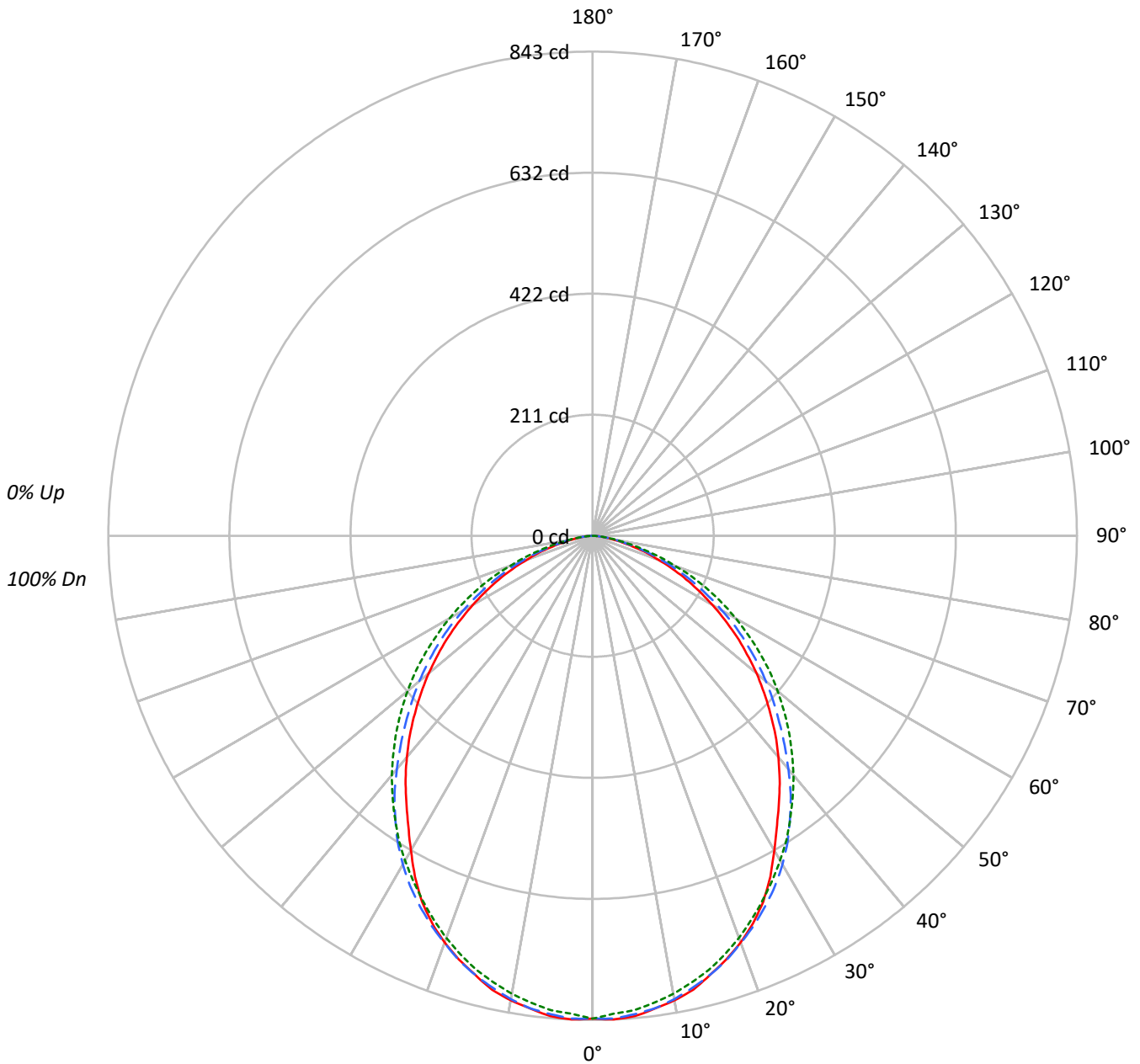
Lumens per Lamp: N/A  
Luminaire Lumens: 1944.0 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	4525	4525	4525
5°	4537	4518	4479
10°	4489	4476	4425
15°	4409	4409	4359
20°	4316	4321	4266
25°	4173	4225	4158
30°	3930	4107	4057
35°	3713	3936	3943
40°	3533	3724	3821
45°	3331	3498	3678
50°	3118	3296	3521
55°	2876	3067	3331
60°	2590	2799	3098
65°	2287	2488	2817
70°	1906	2120	2393
75°	1497	1693	1874
80°	1072	1190	1320
85°	698	698	661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.2	4.1
10°-20°	222.4	11.4
20°-30°	325.0	16.7
30°-40°	368.9	19.0
40°-50°	356.1	18.3
50°-60°	293.8	15.1
60°-70°	195.6	10.1
70°-80°	87.5	4.5
80°-90°	15.7	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°	626.5	32.2
0°-40°	995.4	51.2
0°-60°	1645.2	84.6
0°-90°	1944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1944.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	841	841	841	841	841	
5°	840	839	836	832	829	79
15°	791	793	791	788	782	223
25°	703	708	712	706	700	322
35°	565	573	599	602	600	354
45°	438	445	460	481	483	338
55°	306	312	327	345	355	274
65°	180	184	195	209	221	178
75°	72	76	81	85	90	79
85°	11	11	11	11	11	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	840.7	840.7	840.7	840.7	840.7
2.5°	843.0	843.3	841.4	836.2	833.0
5°	839.8	839.4	836.2	831.7	829.1
7.5°	830.4	831.0	830.1	823.6	820.1
10°	821.4	821.7	819.1	813.9	809.7
12.5°	809.7	809.4	805.8	803.3	796.5
15°	791.3	793.3	791.3	787.8	782.3
17.5°	773.5	773.5	774.8	768.7	764.5
20°	753.5	754.5	754.5	749.6	744.8
22.5°	730.3	733.2	734.1	729.0	723.2
25°	702.8	708.3	711.5	706.4	700.2
27.5°	669.5	677.9	687.6	683.8	677.0
30°	632.4	644.7	660.8	657.6	652.8
32.5°	597.2	609.5	631.8	630.5	627.9
35°	565.2	573.0	599.1	602.4	600.1
37.5°	534.9	542.0	566.5	573.9	572.0
40°	502.9	510.6	530.0	543.3	543.9
42.5°	471.2	478.7	494.5	513.5	513.5
45°	437.6	445.1	459.6	480.6	483.2
47.5°	404.7	412.5	426.7	447.7	451.9
50°	372.4	379.5	393.7	414.1	420.5
52.5°	338.8	346.6	360.5	379.2	388.6
55°	306.5	311.7	326.9	344.9	355.0
57.5°	272.9	277.8	294.9	310.4	320.7
60°	240.6	246.8	260.0	275.8	287.8
62.5°	209.6	216.1	227.4	241.3	254.8
65°	179.6	184.4	195.4	209.3	221.2
67.5°	150.5	154.7	165.7	175.4	188.0
70°	121.1	126.6	134.7	144.1	152.1
72.5°	97.5	99.8	106.6	113.4	121.8
75°	72.0	75.9	81.4	85.3	90.1
77.5°	51.7	53.9	57.2	60.4	64.9
80°	34.6	35.5	38.4	39.1	42.6
82.5°	21.0	21.6	22.3	22.6	23.9
85°	11.3	11.3	11.3	10.7	10.7
87.5°	6.5	6.5	5.5	4.5	3.2
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)