

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: P554942

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-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: P554942  
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-35-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  
3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

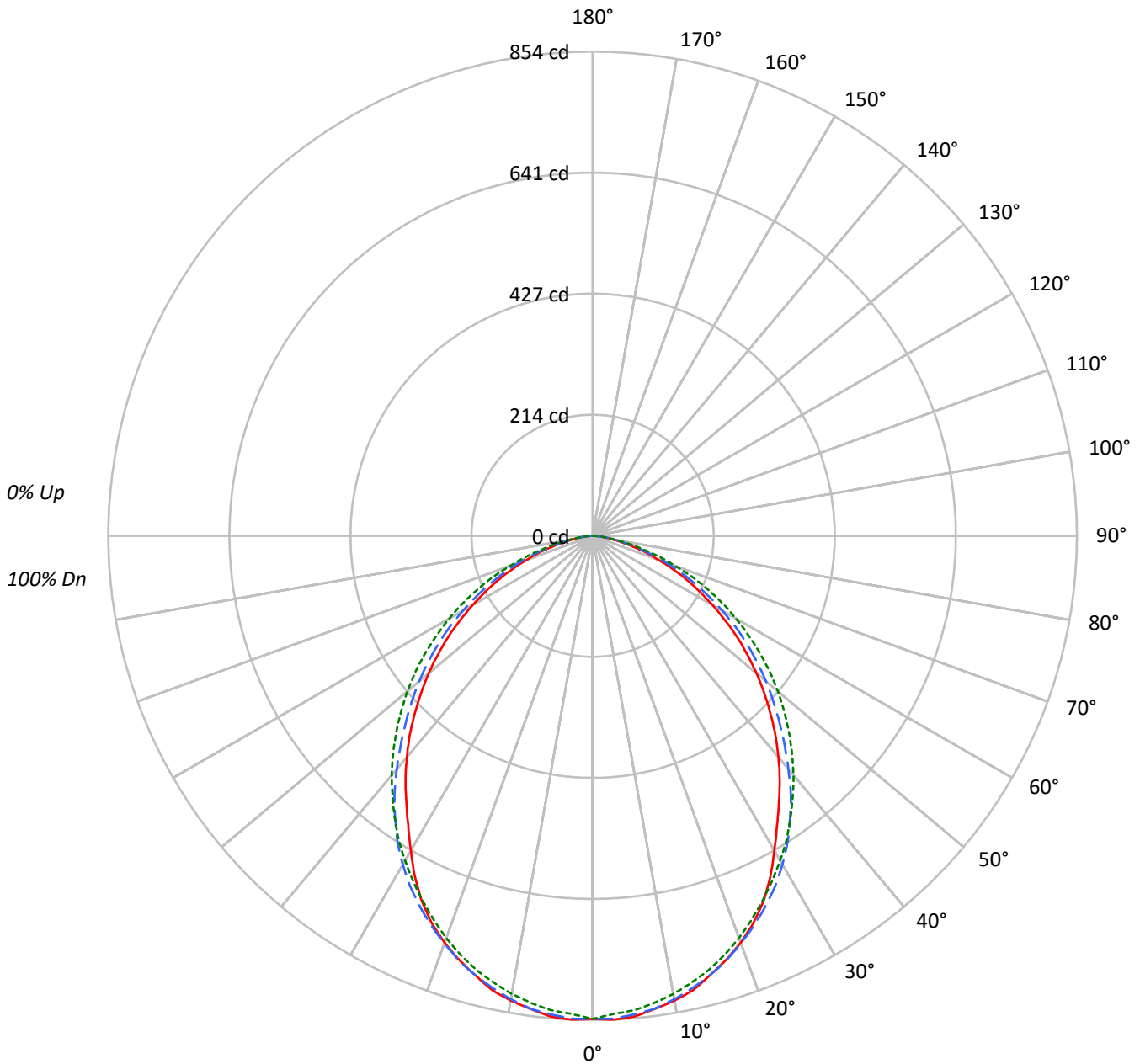
Lumens per Lamp: N/A  
Luminaire Lumens: 1970.0 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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

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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°	4585	4585	4585
5°	4598	4578	4539
10°	4549	4536	4485
15°	4468	4468	4417
20°	4373	4379	4323
25°	4229	4282	4214
30°	3983	4162	4111
35°	3763	3989	3995
40°	3580	3773	3873
45°	3376	3545	3726
50°	3160	3341	3569
55°	2914	3108	3375
60°	2624	2836	3139
65°	2318	2521	2855
70°	1931	2148	2426
75°	1518	1716	1899
80°	1085	1206	1339
85°	710	710	667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.2	4.1
10°-20°	225.3	11.4
20°-30°	329.3	16.7
30°-40°	373.8	19.0
40°-50°	360.8	18.3
50°-60°	297.7	15.1
60°-70°	198.2	10.1
70°-80°	88.7	4.5
80°-90°	15.9	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°	634.9	32.2
0°-40°	1008.7	51.2
0°-60°	1667.2	84.6
0°-90°	1970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1970.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	851	851	847	843	840	81
15°	802	804	802	798	793	226
25°	712	718	721	716	710	326
35°	573	581	607	610	608	359
45°	444	451	466	487	490	342
55°	311	316	331	350	360	277
65°	182	187	198	212	224	180
75°	73	77	82	86	91	80
85°	12	12	12	11	11	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	852.0	852.0	852.0	852.0	852.0
2.5°	854.3	854.6	852.6	847.4	844.1
5°	851.0	850.7	847.4	842.8	840.2
7.5°	841.5	842.2	841.2	834.6	831.0
10°	832.3	832.7	830.0	824.8	820.6
12.5°	820.6	820.2	816.6	814.0	807.1
15°	801.9	803.9	801.9	798.3	792.7
17.5°	783.9	783.9	785.2	779.0	774.7
20°	763.6	764.6	764.6	759.7	754.8
22.5°	740.0	743.0	744.0	738.7	732.8
25°	712.2	717.8	721.1	715.8	709.6
27.5°	678.5	687.0	696.8	692.9	686.0
30°	640.9	653.3	669.7	666.4	661.5
32.5°	605.2	617.6	640.2	638.9	636.3
35°	572.8	580.6	607.2	610.4	608.1
37.5°	542.0	549.2	574.1	581.6	579.7
40°	509.6	517.5	537.1	550.5	551.2
42.5°	477.5	485.1	501.1	520.4	520.4
45°	443.5	451.0	465.8	487.0	489.6
47.5°	410.1	418.0	432.4	453.6	457.9
50°	377.4	384.6	399.0	419.6	426.2
52.5°	343.3	351.2	365.3	384.3	393.7
55°	310.6	315.8	331.2	349.6	359.7
57.5°	276.6	281.5	298.8	314.5	325.0
60°	243.8	250.1	263.5	279.5	291.6
62.5°	212.4	219.0	230.4	244.5	258.2
65°	182.0	186.9	198.0	212.1	224.2
67.5°	152.5	156.8	167.9	177.7	190.5
70°	122.7	128.3	136.5	146.0	154.2
72.5°	98.8	101.1	108.0	114.9	123.4
75°	73.0	76.9	82.5	86.4	91.3
77.5°	52.4	54.7	57.9	61.2	65.8
80°	35.0	36.0	38.9	39.6	43.2
82.5°	21.3	21.9	22.6	22.9	24.2
85°	11.5	11.5	11.5	10.8	10.8
87.5°	6.5	6.5	5.6	4.6	3.3
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)