

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: P553918

Luminaire Tested: **FUSL-12-2-LD4-1HI-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: P553918  
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-LD4-1HI-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**

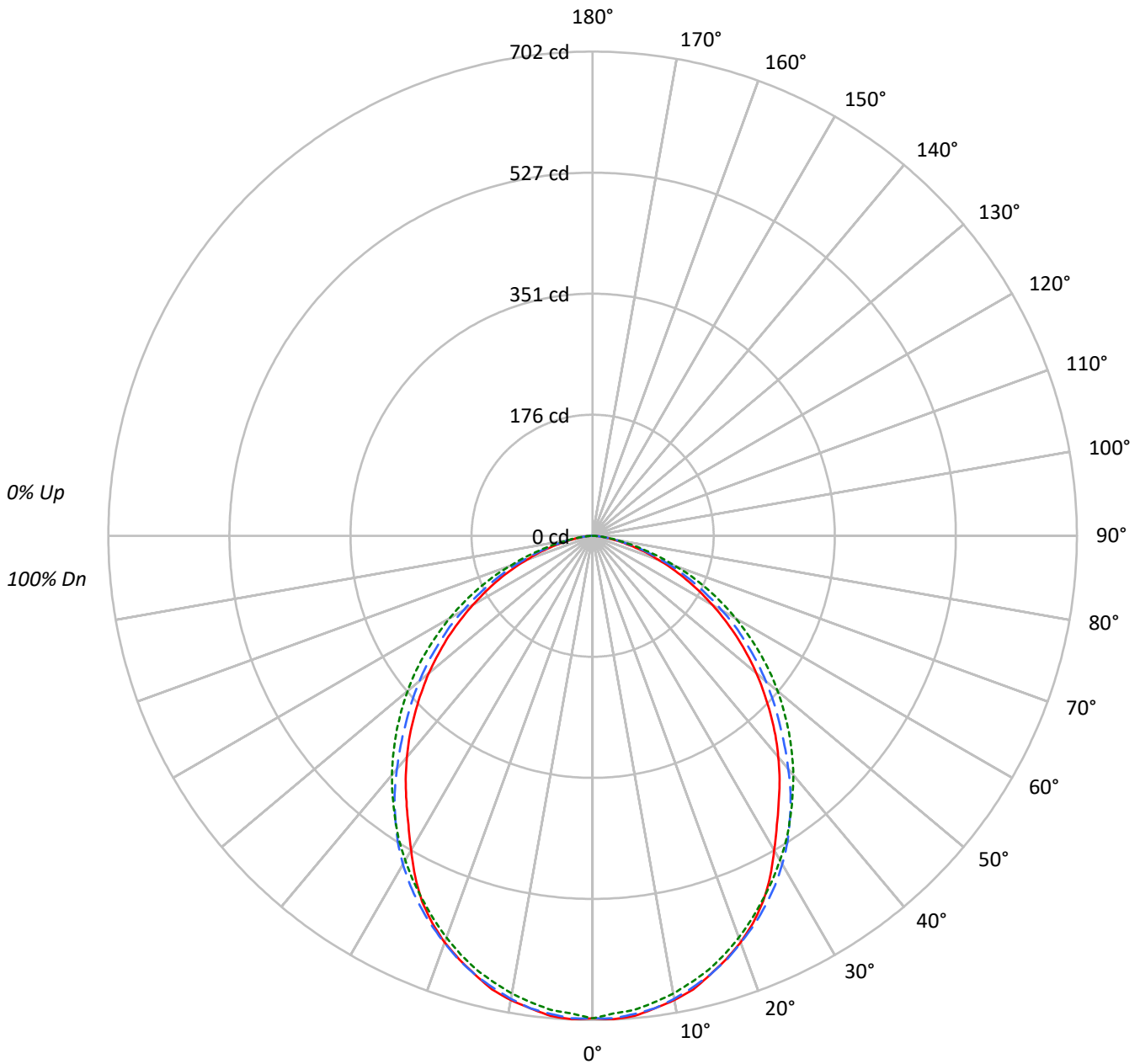
Lumens per Lamp: N/A  
Luminaire Lumens: 1618.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.6  
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°	3766	3766	3766
5°	3776	3760	3728
10°	3736	3725	3683
15°	3670	3670	3628
20°	3592	3597	3550
25°	3474	3517	3461
30°	3271	3418	3376
35°	3091	3277	3282
40°	2941	3099	3181
45°	2773	2911	3061
50°	2596	2744	2930
55°	2394	2552	2772
60°	2156	2329	2578
65°	1904	2071	2344
70°	1586	1764	1992
75°	1246	1408	1560
80°	893	992	1100
85°	580	580	550



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.9	4.1
10°-20°	185.1	11.4
20°-30°	270.5	16.7
30°-40°	307.0	19.0
40°-50°	296.4	18.3
50°-60°	244.5	15.1
60°-70°	162.8	10.1
70°-80°	72.9	4.5
80°-90°	13.0	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°	521.4	32.2
0°-40°	828.5	51.2
0°-60°	1369.3	84.6
0°-90°	1618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1618.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	699	699	696	692	690	66
15°	659	660	659	656	651	186
25°	585	590	592	588	583	268
35°	470	477	499	501	500	295
45°	364	370	382	400	402	281
55°	255	259	272	287	295	228
65°	150	154	163	174	184	148
75°	60	63	68	71	75	66
85°	9	9	9	9	9	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	699.7	699.7	699.7	699.7	699.7
2.5°	701.6	701.9	700.3	696.0	693.3
5°	698.9	698.7	696.0	692.2	690.1
7.5°	691.1	691.7	690.9	685.5	682.5
10°	683.6	683.9	681.7	677.4	673.9
12.5°	673.9	673.7	670.7	668.6	662.9
15°	658.6	660.2	658.6	655.7	651.1
17.5°	643.8	643.8	644.9	639.8	636.3
20°	627.2	628.0	628.0	623.9	619.9
22.5°	607.8	610.2	611.0	606.7	601.9
25°	585.0	589.5	592.2	587.9	582.8
27.5°	557.3	564.3	572.3	569.1	563.5
30°	526.4	536.6	550.0	547.3	543.3
32.5°	497.1	507.3	525.8	524.7	522.6
35°	470.4	476.9	498.7	501.4	499.5
37.5°	445.2	451.1	471.5	477.7	476.1
40°	418.6	425.0	441.1	452.2	452.7
42.5°	392.2	398.4	411.6	427.4	427.4
45°	364.3	370.4	382.5	400.0	402.2
47.5°	336.8	343.3	355.1	372.6	376.1
50°	310.0	315.9	327.7	344.6	350.0
52.5°	282.0	288.4	300.0	315.6	323.4
55°	255.1	259.4	272.0	287.1	295.4
57.5°	227.2	231.2	245.4	258.3	266.9
60°	200.3	205.4	216.4	229.6	239.5
62.5°	174.5	179.8	189.3	200.8	212.1
65°	149.5	153.5	162.6	174.2	184.1
67.5°	125.3	128.8	137.9	146.0	156.5
70°	100.8	105.4	112.1	119.9	126.6
72.5°	81.2	83.1	88.7	94.4	101.3
75°	59.9	63.2	67.7	71.0	75.0
77.5°	43.0	44.9	47.6	50.3	54.0
80°	28.8	29.6	32.0	32.5	35.5
82.5°	17.5	18.0	18.5	18.8	19.9
85°	9.4	9.4	9.4	8.9	8.9
87.5°	5.4	5.4	4.6	3.8	2.7
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)