

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: P553914

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-80-94-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: P553914  
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-80-94-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

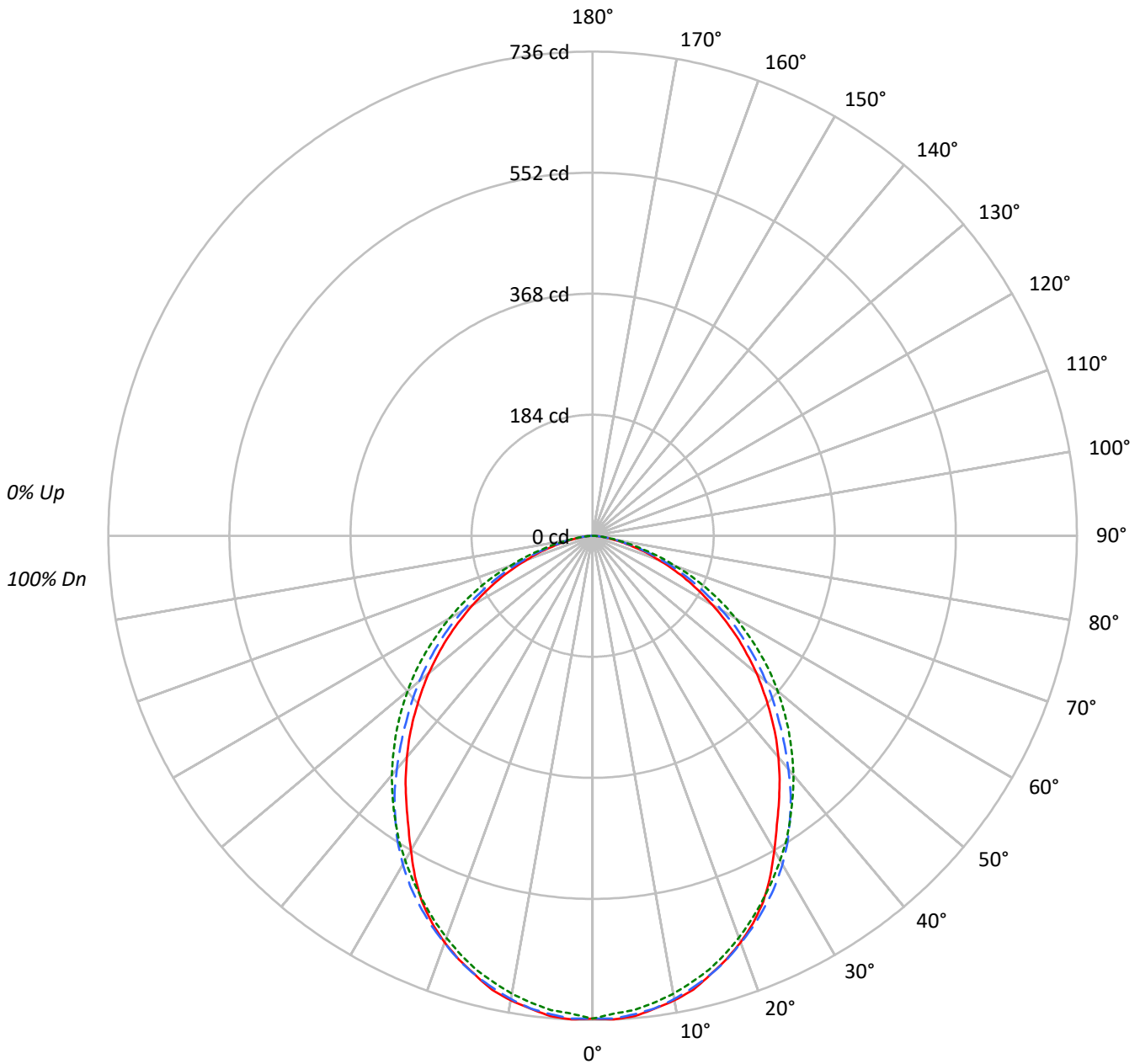
Lumens per Lamp: N/A  
Luminaire Lumens: 1697.0 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	3950	3950	3950
5°	3961	3944	3910
10°	3918	3907	3863
15°	3849	3849	3805
20°	3767	3772	3724
25°	3643	3688	3630
30°	3431	3585	3541
35°	3242	3436	3442
40°	3084	3251	3336
45°	2907	3054	3210
50°	2722	2878	3074
55°	2511	2677	2908
60°	2261	2443	2704
65°	1997	2173	2459
70°	1663	1851	2090
75°	1308	1478	1637
80°	936	1041	1153
85°	611	611	574



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.1	4.1
10°-20°	194.1	11.4
20°-30°	283.7	16.7
30°-40°	322.0	19.0
40°-50°	310.8	18.3
50°-60°	256.4	15.1
60°-70°	170.8	10.1
70°-80°	76.4	4.5
80°-90°	13.7	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°	546.9	32.2
0°-40°	868.9	51.2
0°-60°	1436.2	84.6
0°-90°	1697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1697.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	733	733	730	726	724	69
15°	691	692	691	688	683	195
25°	614	618	621	617	611	281
35°	493	500	523	526	524	309
45°	382	388	401	420	422	295
55°	268	272	285	301	310	239
65°	157	161	171	183	193	155
75°	63	66	71	74	79	69
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	733.9	733.9	733.9	733.9	733.9
2.5°	735.9	736.2	734.5	730.0	727.1
5°	733.1	732.8	730.0	726.0	723.8
7.5°	724.9	725.5	724.6	719.0	715.9
10°	717.0	717.3	715.0	710.5	706.8
12.5°	706.8	706.6	703.5	701.2	695.3
15°	690.8	692.5	690.8	687.7	682.9
17.5°	675.3	675.3	676.4	671.0	667.4
20°	657.8	658.6	658.6	654.4	650.2
22.5°	637.5	640.0	640.9	636.4	631.3
25°	613.5	618.3	621.1	616.6	611.3
27.5°	584.5	591.8	600.3	596.9	591.0
30°	552.1	562.8	576.9	574.0	569.8
32.5°	521.3	532.0	551.5	550.4	548.1
35°	493.4	500.2	523.0	525.8	523.9
37.5°	466.9	473.1	494.5	501.0	499.3
40°	439.0	445.8	462.7	474.2	474.8
42.5°	411.4	417.8	431.7	448.3	448.3
45°	382.0	388.5	401.2	419.5	421.8
47.5°	353.3	360.0	372.5	390.8	394.4
50°	325.1	331.3	343.7	361.5	367.1
52.5°	295.8	302.5	314.7	331.0	339.2
55°	267.6	272.1	285.3	301.1	309.9
57.5°	238.2	242.5	257.4	271.0	280.0
60°	210.1	215.4	227.0	240.8	251.2
62.5°	183.0	188.6	198.5	210.6	222.5
65°	156.8	161.0	170.6	182.7	193.1
67.5°	131.4	135.1	144.6	153.1	164.1
70°	105.7	110.5	117.6	125.7	132.8
72.5°	85.1	87.1	93.0	99.0	106.3
75°	62.9	66.3	71.1	74.4	78.7
77.5°	45.1	47.1	49.9	52.7	56.7
80°	30.2	31.0	33.6	34.1	37.2
82.5°	18.3	18.9	19.5	19.7	20.9
85°	9.9	9.9	9.9	9.3	9.3
87.5°	5.6	5.6	4.8	3.9	2.8
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)