

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: P554876

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-80-96-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: P554876  
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-80-96-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

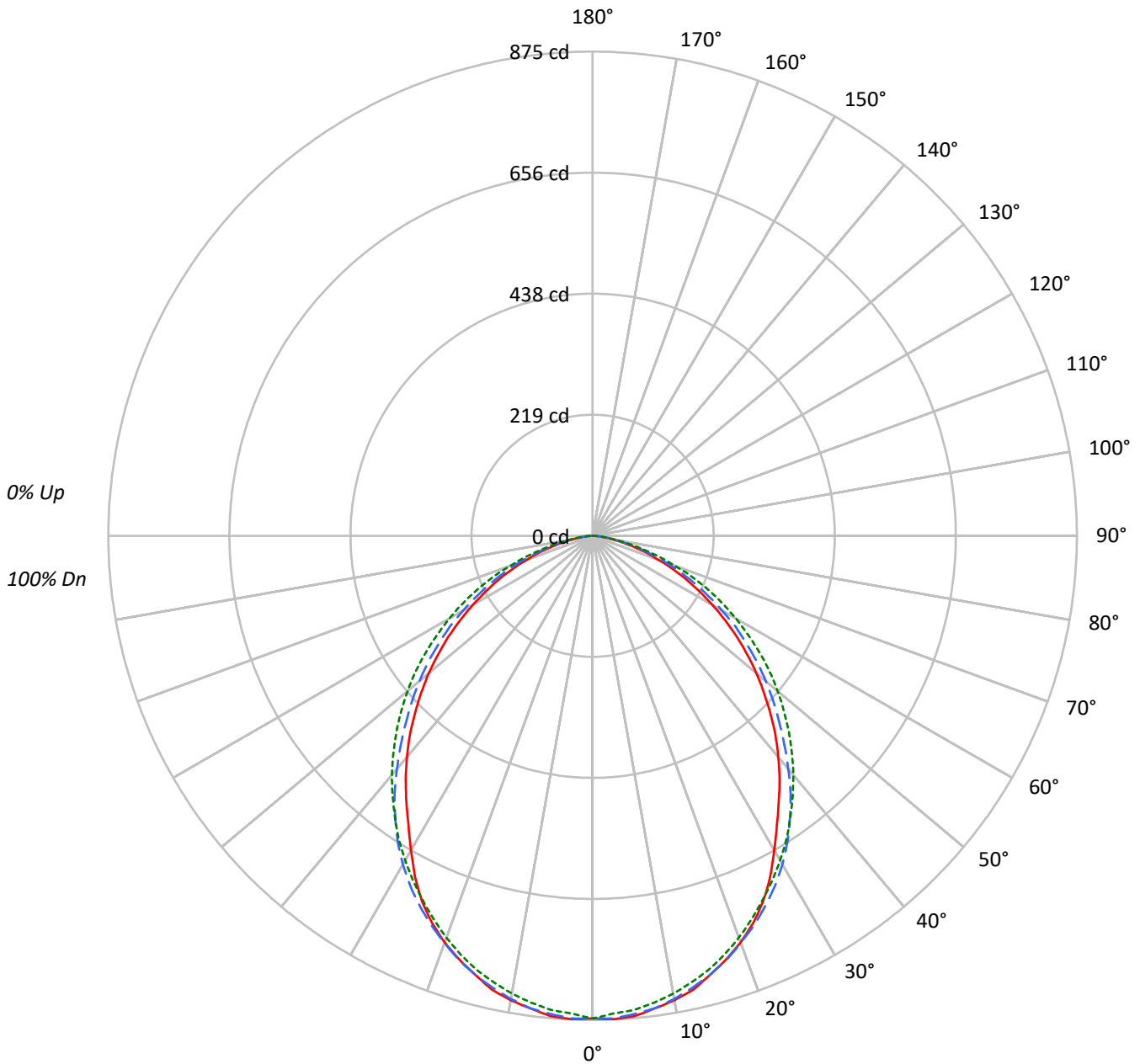
Lumens per Lamp: N/A  
Luminaire Lumens: 2017.0 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	4695	4695	4695
5°	4707	4687	4647
10°	4657	4644	4591
15°	4574	4574	4522
20°	4478	4483	4426
25°	4330	4384	4314
30°	4078	4261	4209
35°	3853	4084	4091
40°	3666	3863	3965
45°	3456	3630	3816
50°	3235	3420	3653
55°	2984	3182	3456
60°	2688	2904	3214
65°	2372	2581	2924
70°	1978	2198	2483
75°	1553	1755	1944
80°	1113	1237	1370
85°	722	722	685



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.1	4.1
10°-20°	230.7	11.4
20°-30°	337.2	16.7
30°-40°	382.7	19.0
40°-50°	369.5	18.3
50°-60°	304.8	15.1
60°-70°	203.0	10.1
70°-80°	90.8	4.5
80°-90°	16.3	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°	650.0	32.2
0°-40°	1032.7	51.2
0°-60°	1707.0	84.6
0°-90°	2017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2017.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	871	871	868	863	860	82
15°	821	823	821	817	812	231
25°	729	735	738	733	726	334
35°	586	594	622	625	623	367
45°	454	462	477	499	501	350
55°	318	323	339	358	368	284
65°	186	191	203	217	230	185
75°	75	79	84	88	94	82
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	872.3	872.3	872.3	872.3	872.3
2.5°	874.6	875.0	873.0	867.6	864.3
5°	871.3	871.0	867.6	862.9	860.2
7.5°	861.6	862.2	861.2	854.5	850.9
10°	852.2	852.5	849.8	844.5	840.1
12.5°	840.1	839.8	836.1	833.4	826.4
15°	821.0	823.0	821.0	817.3	811.6
17.5°	802.6	802.6	803.9	797.6	793.2
20°	781.8	782.8	782.8	777.8	772.8
22.5°	757.7	760.7	761.7	756.4	750.3
25°	729.2	734.9	738.3	732.9	726.5
27.5°	694.7	703.4	713.5	709.4	702.4
30°	656.2	668.9	685.6	682.3	677.3
32.5°	619.6	632.4	655.5	654.1	651.5
35°	586.4	594.5	621.6	625.0	622.6
37.5°	554.9	562.3	587.8	595.5	593.5
40°	521.8	529.8	549.9	563.7	564.3
42.5°	488.9	496.6	513.1	532.8	532.8
45°	454.1	461.8	476.9	498.6	501.3
47.5°	419.9	427.9	442.7	464.5	468.8
50°	386.4	393.8	408.5	429.6	436.3
52.5°	351.5	359.6	374.0	393.4	403.1
55°	318.0	323.4	339.1	357.9	368.3
57.5°	283.2	288.2	306.0	322.0	332.8
60°	249.7	256.0	269.8	286.2	298.6
62.5°	217.5	224.2	235.9	250.3	264.4
65°	186.3	191.3	202.7	217.2	229.6
67.5°	156.2	160.5	171.9	182.0	195.0
70°	125.7	131.4	139.7	149.5	157.8
72.5°	101.2	103.6	110.6	117.6	126.3
75°	74.7	78.8	84.4	88.5	93.5
77.5°	53.6	56.0	59.3	62.7	67.4
80°	35.9	36.9	39.9	40.5	44.2
82.5°	21.8	22.5	23.1	23.5	24.8
85°	11.7	11.7	11.7	11.1	11.1
87.5°	6.7	6.7	5.7	4.7	3.4
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)