

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: P555050

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-93-94-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: P555050  
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-40-UNV-93-94-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

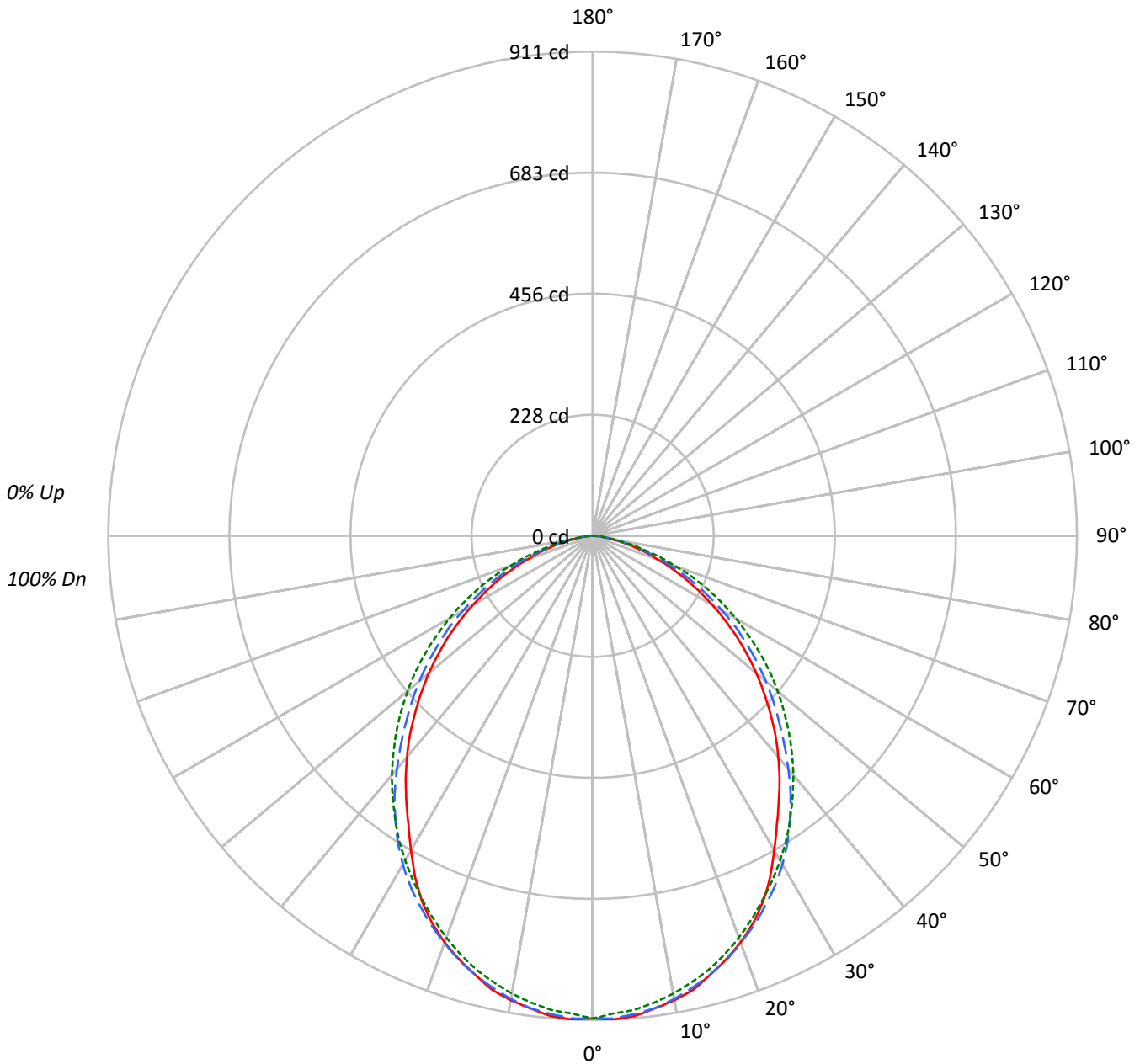
Lumens per Lamp: N/A  
Luminaire Lumens: 2100.0 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	4888	4888	4888
5°	4901	4880	4838
10°	4849	4835	4780
15°	4763	4763	4708
20°	4662	4668	4608
25°	4508	4564	4492
30°	4246	4437	4382
35°	4012	4252	4259
40°	3816	4023	4128
45°	3599	3779	3973
50°	3368	3561	3804
55°	3107	3313	3598
60°	2798	3024	3347
65°	2471	2688	3044
70°	2058	2290	2585
75°	1618	1828	2023
80°	1156	1286	1429
85°	753	753	710



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.5	4.1
10°-20°	240.2	11.4
20°-30°	351.0	16.7
30°-40°	398.5	19.0
40°-50°	384.7	18.3
50°-60°	317.3	15.1
60°-70°	211.3	10.1
70°-80°	94.6	4.5
80°-90°	16.9	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°	676.8	32.2
0°-40°	1075.2	51.2
0°-60°	1777.2	84.6
0°-90°	2100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	907	907	903	898	896	86
15°	855	857	855	851	845	241
25°	759	765	769	763	756	348
35°	611	619	647	651	648	383
45°	473	481	496	519	522	365
55°	331	337	353	373	383	296
65°	194	199	211	226	239	192
75°	78	82	88	92	97	85
85°	12	12	12	12	12	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	908.2	908.2	908.2	908.2	908.2
2.5°	910.6	911.0	908.9	903.3	899.8
5°	907.1	906.8	903.3	898.4	895.6
7.5°	897.0	897.7	896.7	889.7	885.9
10°	887.3	887.6	884.8	879.2	874.7
12.5°	874.7	874.4	870.5	867.7	860.4
15°	854.8	856.9	854.8	851.0	845.0
17.5°	835.6	835.6	837.0	830.4	825.9
20°	814.0	815.0	815.0	809.8	804.6
22.5°	788.9	792.0	793.1	787.5	781.2
25°	759.2	765.1	768.6	763.1	756.4
27.5°	723.3	732.3	742.8	738.6	731.3
30°	683.2	696.4	713.9	710.4	705.1
32.5°	645.1	658.4	682.5	681.1	678.3
35°	610.6	619.0	647.2	650.7	648.3
37.5°	577.8	585.5	612.0	620.0	617.9
40°	543.2	551.6	572.6	586.9	587.6
42.5°	509.1	517.1	534.2	554.8	554.8
45°	472.8	480.8	496.5	519.2	522.0
47.5°	437.2	445.5	460.9	483.6	488.1
50°	402.3	410.0	425.3	447.3	454.3
52.5°	366.0	374.4	389.4	409.6	419.7
55°	331.1	336.7	353.1	372.6	383.4
57.5°	294.8	300.1	318.5	335.3	346.5
60°	259.9	266.6	280.9	298.0	310.9
62.5°	226.4	233.4	245.6	260.6	275.3
65°	194.0	199.2	211.1	226.1	239.0
67.5°	162.6	167.1	179.0	189.5	203.1
70°	130.8	136.8	145.5	155.6	164.3
72.5°	105.4	107.8	115.1	122.5	131.5
75°	77.8	82.0	87.9	92.1	97.3
77.5°	55.8	58.3	61.8	65.2	70.1
80°	37.3	38.4	41.5	42.2	46.1
82.5°	22.7	23.4	24.1	24.4	25.8
85°	12.2	12.2	12.2	11.5	11.5
87.5°	7.0	7.0	5.9	4.9	3.5
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)