

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: P555056

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-80-84-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: P555056  
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-50-UNV-80-84-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

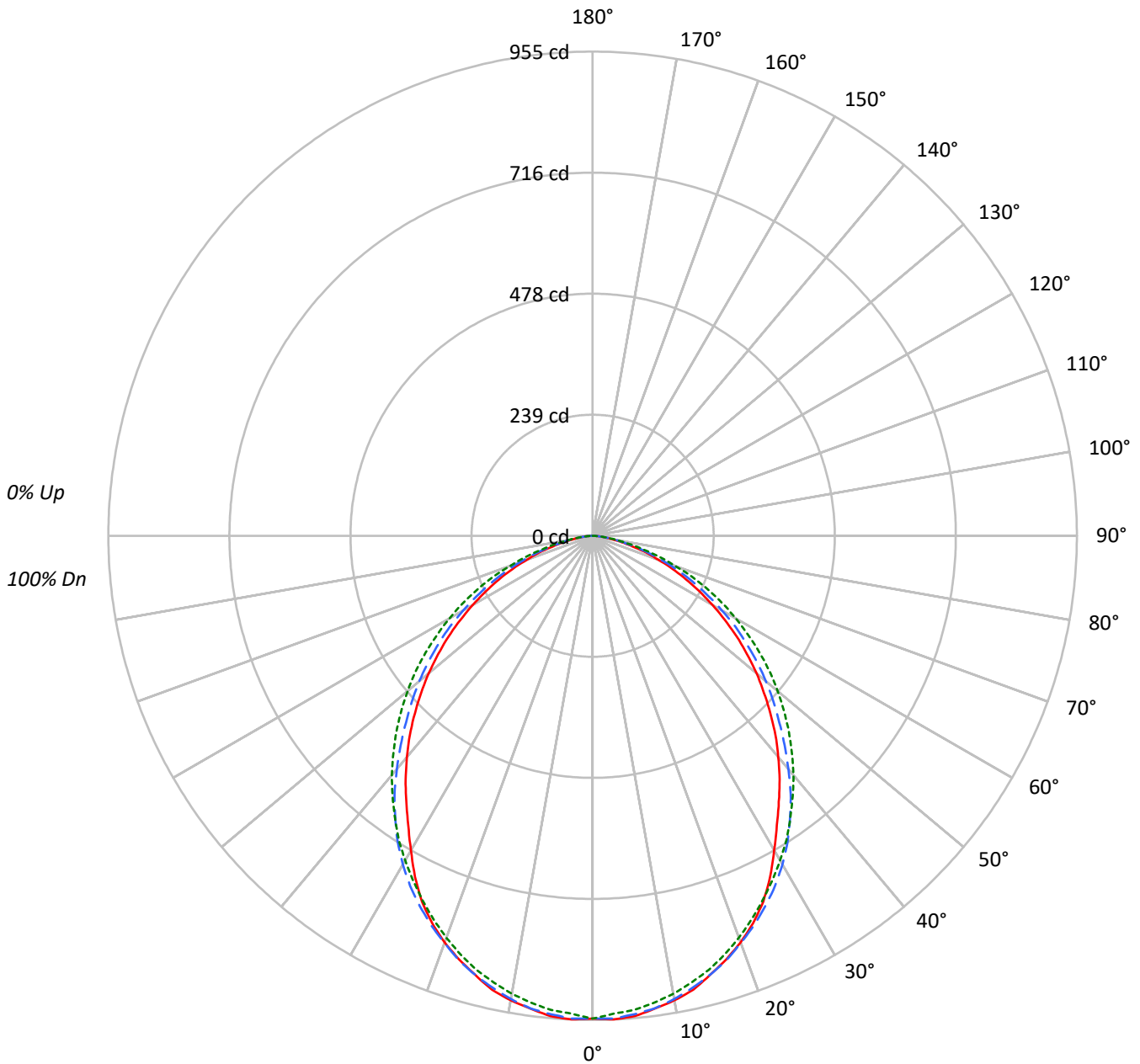
Lumens per Lamp: N/A  
Luminaire Lumens: 2202.0 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (Ain): 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°	5125	5125	5125
5°	5139	5117	5074
10°	5085	5070	5012
15°	4994	4994	4937
20°	4888	4895	4832
25°	4728	4786	4710
30°	4451	4652	4595
35°	4206	4459	4466
40°	4002	4218	4329
45°	3773	3962	4166
50°	3532	3734	3988
55°	3258	3474	3773
60°	2934	3170	3509
65°	2590	2818	3191
70°	2159	2401	2711
75°	1697	1917	2123
80°	1212	1348	1497
85°	790	790	747



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.7	4.1
10°-20°	251.9	11.4
20°-30°	368.1	16.7
30°-40°	417.8	19.0
40°-50°	403.3	18.3
50°-60°	332.7	15.1
60°-70°	221.6	10.1
70°-80°	99.1	4.5
80°-90°	17.7	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°	709.6	32.2
0°-40°	1127.5	51.2
0°-60°	1863.5	84.6
0°-90°	2202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2202.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	951	951	947	942	939	90
15°	896	898	896	892	886	253
25°	796	802	806	800	793	365
35°	640	649	679	682	680	401
45°	496	504	521	544	547	382
55°	347	353	370	391	402	310
65°	203	209	221	237	251	202
75°	82	86	92	97	102	89
85°	13	13	13	12	12	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	952.3	952.3	952.3	952.3	952.3
2.5°	954.9	955.2	953.0	947.2	943.5
5°	951.2	950.8	947.2	942.1	939.1
7.5°	940.6	941.3	940.2	932.9	928.9
10°	930.4	930.7	927.8	921.9	917.2
12.5°	917.2	916.8	912.8	909.9	902.2
15°	896.3	898.5	896.3	892.3	886.1
17.5°	876.2	876.2	877.7	870.7	866.0
20°	853.5	854.6	854.6	849.1	843.7
22.5°	827.2	830.5	831.6	825.7	819.1
25°	796.1	802.3	806.0	800.1	793.2
27.5°	758.4	767.9	778.9	774.5	766.8
30°	716.3	730.2	748.5	744.9	739.4
32.5°	676.5	690.4	715.6	714.1	711.2
35°	640.2	649.0	678.7	682.3	679.7
37.5°	605.8	613.9	641.7	650.1	647.9
40°	569.6	578.4	600.4	615.4	616.1
42.5°	533.8	542.2	560.1	581.7	581.7
45°	495.7	504.1	520.6	544.4	547.3
47.5°	458.4	467.2	483.3	507.1	511.8
50°	421.8	429.9	446.0	469.0	476.3
52.5°	383.8	392.6	408.3	429.5	440.1
55°	347.2	353.0	370.2	390.7	402.1
57.5°	309.1	314.6	334.0	351.6	363.3
60°	272.6	279.5	294.5	312.4	326.0
62.5°	237.4	244.8	257.6	273.3	288.7
65°	203.4	208.9	221.3	237.1	250.6
67.5°	170.5	175.2	187.7	198.7	212.9
70°	137.2	143.4	152.6	163.2	172.3
72.5°	110.5	113.0	120.7	128.4	137.9
75°	81.6	86.0	92.2	96.6	102.1
77.5°	58.5	61.1	64.8	68.4	73.5
80°	39.1	40.2	43.5	44.3	48.3
82.5°	23.8	24.5	25.2	25.6	27.1
85°	12.8	12.8	12.8	12.1	12.1
87.5°	7.3	7.3	6.2	5.1	3.7
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)