

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: P555058

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-80-85-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: P555058  
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-80-85-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

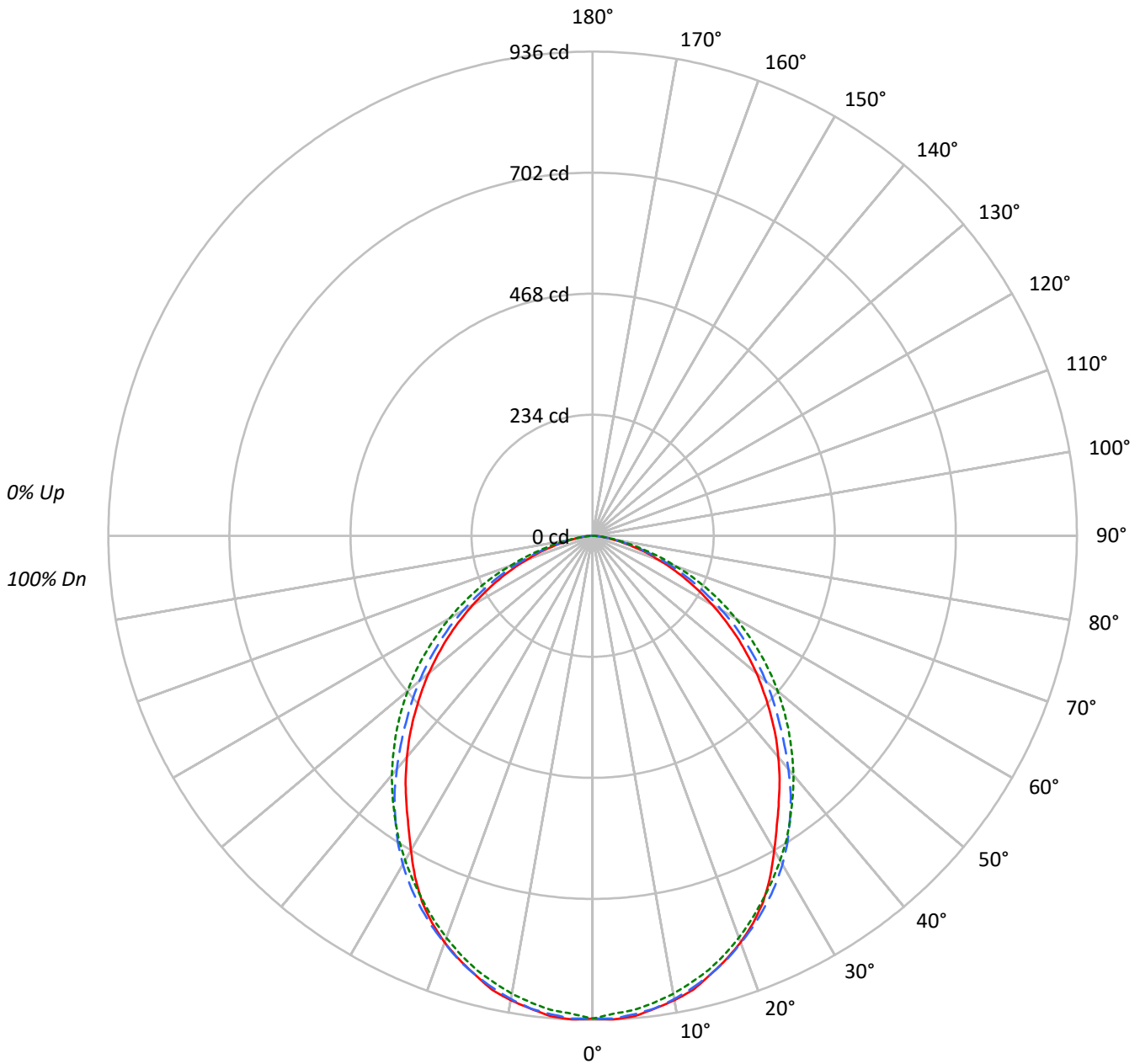
Lumens per Lamp: N/A  
Luminaire Lumens: 2158.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (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°	5023	5023	5023
5°	5036	5015	4972
10°	4983	4969	4912
15°	4894	4894	4839
20°	4791	4797	4735
25°	4633	4691	4616
30°	4363	4559	4503
35°	4122	4370	4377
40°	3922	4134	4242
45°	3698	3883	4083
50°	3461	3660	3908
55°	3193	3404	3697
60°	2875	3106	3439
65°	2538	2762	3128
70°	2116	2353	2658
75°	1664	1880	2079
80°	1190	1323	1466
85°	772	772	729



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.9	4.1
10°-20°	246.9	11.4
20°-30°	360.7	16.7
30°-40°	409.5	19.0
40°-50°	395.3	18.3
50°-60°	326.1	15.1
60°-70°	217.1	10.1
70°-80°	97.2	4.5
80°-90°	17.4	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°	695.5	32.2
0°-40°	1104.9	51.2
0°-60°	1826.3	84.6
0°-90°	2158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2158.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	932	932	928	923	920	88
15°	878	881	878	874	868	248
25°	780	786	790	784	777	357
35°	627	636	665	669	666	393
45°	486	494	510	534	536	375
55°	340	346	363	383	394	304
65°	199	205	217	232	246	198
75°	80	84	90	95	100	87
85°	12	12	12	12	12	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	933.3	933.3	933.3	933.3	933.3
2.5°	935.8	936.1	934.0	928.3	924.7
5°	932.2	931.8	928.3	923.2	920.4
7.5°	921.8	922.5	921.4	914.3	910.3
10°	911.8	912.1	909.3	903.5	898.9
12.5°	898.9	898.5	894.6	891.7	884.2
15°	878.4	880.6	878.4	874.5	868.4
17.5°	858.7	858.7	860.1	853.3	848.7
20°	836.5	837.5	837.5	832.2	826.8
22.5°	810.7	813.9	815.0	809.2	802.8
25°	780.2	786.3	789.9	784.1	777.3
27.5°	743.3	752.6	763.3	759.0	751.5
30°	702.0	715.6	733.6	730.0	724.6
32.5°	662.9	676.6	701.3	699.9	697.0
35°	627.4	636.0	665.1	668.7	666.2
37.5°	593.7	601.6	628.9	637.1	635.0
40°	558.2	566.9	588.4	603.1	603.8
42.5°	523.1	531.4	548.9	570.1	570.1
45°	485.8	494.1	510.2	533.5	536.4
47.5°	449.3	457.9	473.6	496.9	501.6
50°	413.4	421.3	437.1	459.6	466.8
52.5°	376.1	384.7	400.1	420.9	431.3
55°	340.3	346.0	362.8	382.9	394.0
57.5°	303.0	308.3	327.3	344.6	356.0
60°	267.1	273.9	288.6	306.2	319.5
62.5°	232.7	239.9	252.4	267.8	282.9
65°	199.3	204.7	216.9	232.3	245.6
67.5°	167.1	171.7	183.9	194.7	208.7
70°	134.5	140.5	149.5	159.9	168.9
72.5°	108.3	110.8	118.3	125.8	135.2
75°	80.0	84.3	90.4	94.7	100.0
77.5°	57.4	59.9	63.5	67.0	72.1
80°	38.4	39.4	42.7	43.4	47.3
82.5°	23.3	24.0	24.7	25.1	26.5
85°	12.5	12.5	12.5	11.8	11.8
87.5°	7.2	7.2	6.1	5.0	3.6
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)