

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: P554293

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-80-86-EDD**

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: P554293  
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-LD4-1LO-50-UNV-80-86-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

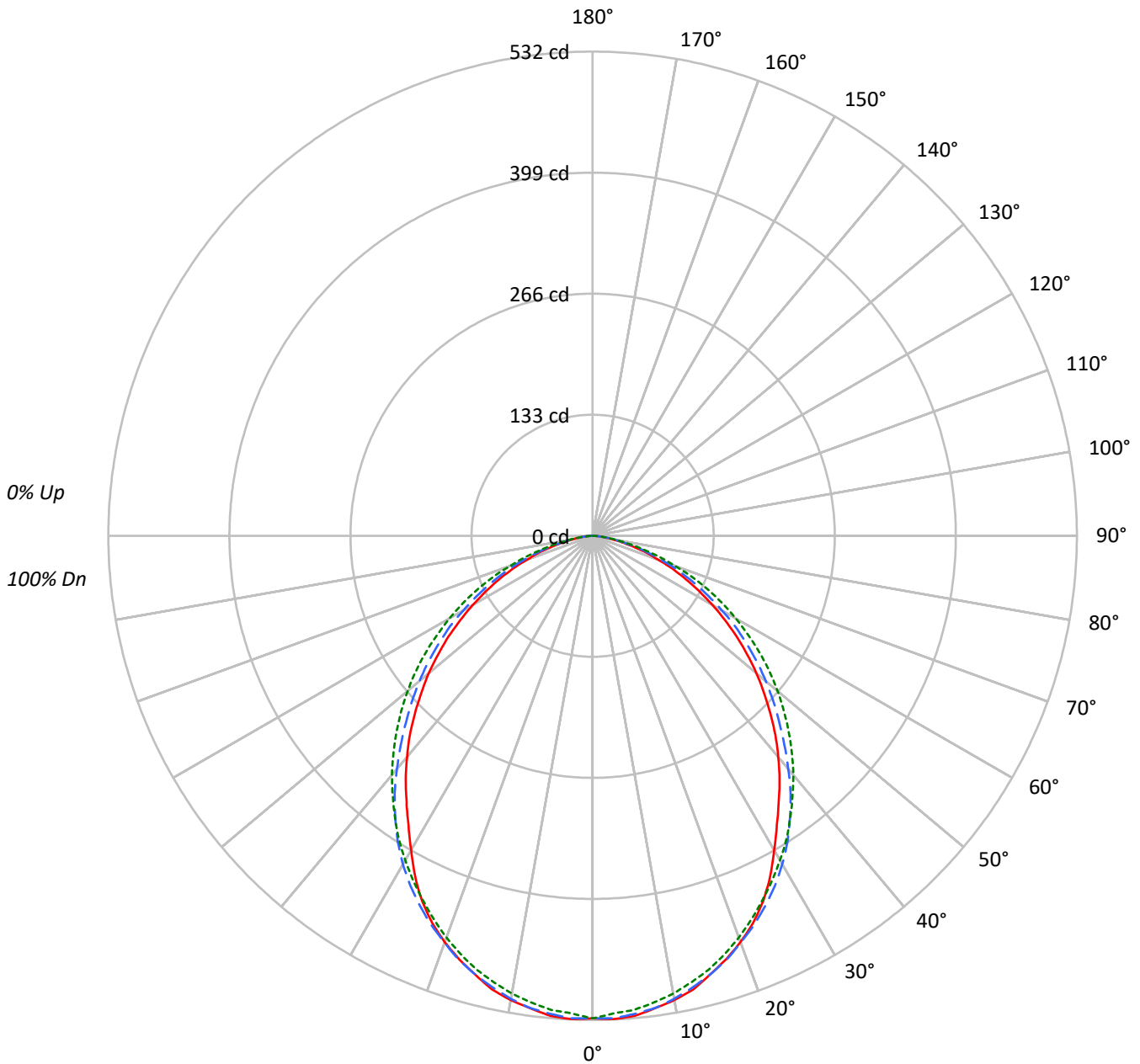
Lumens per Lamp: N/A  
Luminaire Lumens: 1226.0 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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°	2854	2854	2854
5°	2861	2849	2825
10°	2831	2823	2791
15°	2780	2780	2749
20°	2722	2725	2690
25°	2632	2665	2622
30°	2478	2590	2559
35°	2342	2483	2487
40°	2229	2349	2410
45°	2101	2206	2319
50°	1967	2079	2220
55°	1814	1934	2101
60°	1634	1765	1954
65°	1443	1569	1777
70°	1202	1336	1509
75°	944	1067	1181
80°	676	750	834
85°	438	438	414



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.9	4.1
10°-20°	140.2	11.4
20°-30°	204.9	16.7
30°-40°	232.6	19.0
40°-50°	224.6	18.3
50°-60°	185.3	15.1
60°-70°	123.4	10.1
70°-80°	55.2	4.5
80°-90°	9.9	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°	395.1	32.2
0°-40°	627.7	51.2
0°-60°	1037.6	84.6
0°-90°	1226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1226.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	530	529	527	524	523	50
15°	499	500	499	497	493	141
25°	443	447	449	446	442	203
35°	356	361	378	380	378	223
45°	276	281	290	303	305	213
55°	193	197	206	218	224	173
65°	113	116	123	132	140	112
75°	45	48	51	54	57	50
85°	7	7	7	7	7	10
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	530.2	530.2	530.2	530.2	530.2
2.5°	531.6	531.8	530.6	527.4	525.3
5°	529.6	529.4	527.4	524.5	522.9
7.5°	523.7	524.1	523.5	519.4	517.2
10°	518.0	518.2	516.6	513.3	510.7
12.5°	510.7	510.5	508.2	506.6	502.3
15°	499.0	500.3	499.0	496.8	493.3
17.5°	487.8	487.8	488.7	484.8	482.1
20°	475.2	475.8	475.8	472.8	469.7
22.5°	460.6	462.4	463.0	459.7	456.1
25°	443.2	446.7	448.7	445.5	441.6
27.5°	422.3	427.6	433.7	431.2	426.9
30°	398.8	406.6	416.8	414.7	411.7
32.5°	376.6	384.4	398.4	397.6	396.0
35°	356.5	361.4	377.9	379.9	378.5
37.5°	337.3	341.8	357.3	362.0	360.7
40°	317.2	322.0	334.3	342.6	343.0
42.5°	297.2	301.9	311.9	323.9	323.9
45°	276.0	280.7	289.9	303.1	304.7
47.5°	255.2	260.1	269.1	282.3	285.0
50°	234.9	239.3	248.3	261.1	265.2
52.5°	213.7	218.6	227.3	239.1	245.0
55°	193.3	196.6	206.1	217.5	223.9
57.5°	172.1	175.2	186.0	195.7	202.3
60°	151.8	155.6	164.0	174.0	181.5
62.5°	132.2	136.3	143.4	152.2	160.7
65°	113.3	116.3	123.2	132.0	139.5
67.5°	94.9	97.6	104.5	110.6	118.5
70°	76.4	79.8	84.9	90.8	95.9
72.5°	61.5	62.9	67.2	71.5	76.8
75°	45.4	47.9	51.3	53.8	56.8
77.5°	32.6	34.0	36.1	38.1	40.9
80°	21.8	22.4	24.2	24.6	26.9
82.5°	13.2	13.6	14.1	14.3	15.1
85°	7.1	7.1	7.1	6.7	6.7
87.5°	4.1	4.1	3.5	2.9	2.0
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)