

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: P554879

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-80-97-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: P554879  
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-80-97-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND  
3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

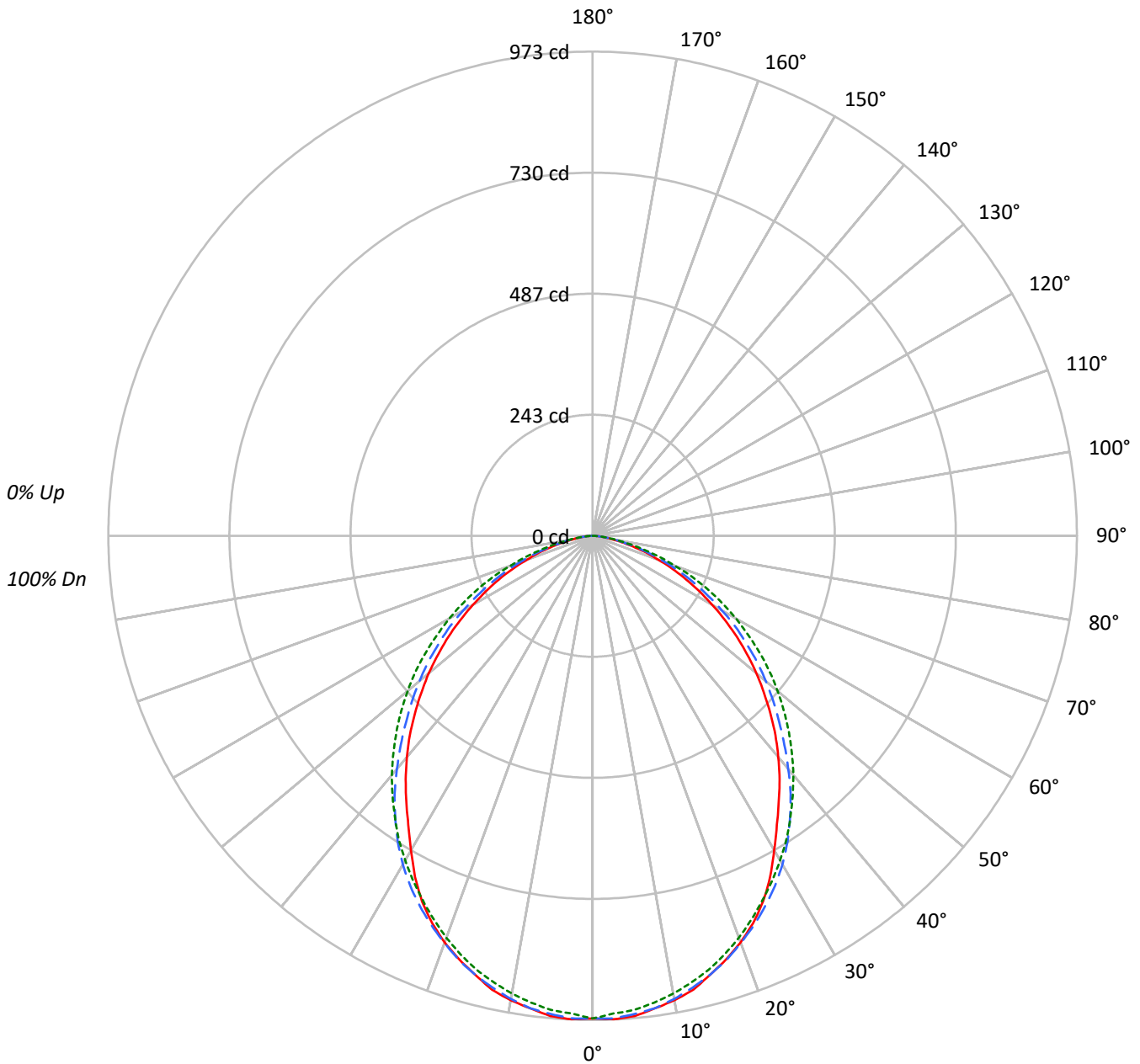
Lumens per Lamp: N/A  
Luminaire Lumens: 2243.0 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	5220	5220	5220
5°	5234	5212	5168
10°	5179	5165	5106
15°	5087	5087	5029
20°	4979	4986	4922
25°	4815	4875	4798
30°	4535	4739	4681
35°	4285	4542	4549
40°	4076	4296	4409
45°	3844	4036	4243
50°	3598	3804	4063
55°	3319	3538	3843
60°	2988	3229	3574
65°	2639	2872	3251
70°	2198	2445	2762
75°	1728	1953	2163
80°	1237	1373	1525
85°	803	803	760



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.3	4.1
10°-20°	256.6	11.4
20°-30°	374.9	16.7
30°-40°	425.6	19.0
40°-50°	410.9	18.3
50°-60°	338.9	15.1
60°-70°	225.7	10.1
70°-80°	101.0	4.5
80°-90°	18.1	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°	722.8	32.2
0°-40°	1148.4	51.2
0°-60°	1898.2	84.6
0°-90°	2243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2243.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	969	968	965	960	957	92
15°	913	915	913	909	903	257
25°	811	817	821	815	808	371
35°	652	661	691	695	692	409
45°	505	514	530	554	558	390
55°	354	360	377	398	410	316
65°	207	213	226	242	255	205
75°	83	88	94	98	104	91
85°	13	13	13	12	12	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	970.0	970.0	970.0	970.0	970.0
2.5°	972.6	973.0	970.8	964.8	961.1
5°	968.9	968.5	964.8	959.6	956.6
7.5°	958.1	958.9	957.7	950.3	946.2
10°	947.7	948.1	945.1	939.1	934.3
12.5°	934.3	933.9	929.8	926.8	919.0
15°	913.0	915.3	913.0	908.9	902.6
17.5°	892.5	892.5	894.0	886.9	882.1
20°	869.4	870.5	870.5	864.9	859.4
22.5°	842.6	845.9	847.1	841.1	834.4
25°	810.9	817.2	821.0	815.0	807.9
27.5°	772.5	782.2	793.4	788.9	781.1
30°	729.7	743.8	762.5	758.7	753.2
32.5°	689.1	703.2	728.9	727.4	724.5
35°	652.2	661.1	691.3	695.0	692.4
37.5°	617.1	625.3	653.6	662.2	660.0
40°	580.2	589.2	611.5	626.8	627.6
42.5°	543.7	552.3	570.5	592.5	592.5
45°	505.0	513.5	530.3	554.5	557.5
47.5°	466.9	475.9	492.3	516.5	521.4
50°	429.7	437.9	454.3	477.8	485.2
52.5°	390.9	399.9	415.9	437.5	448.3
55°	353.7	359.6	377.1	398.0	409.6
57.5°	314.9	320.5	340.2	358.1	370.1
60°	277.6	284.7	300.0	318.3	332.0
62.5°	241.9	249.3	262.4	278.4	294.0
65°	207.2	212.8	225.5	241.5	255.3
67.5°	173.7	178.5	191.2	202.4	216.9
70°	139.7	146.1	155.4	166.2	175.5
72.5°	112.5	115.2	123.0	130.8	140.5
75°	83.1	87.6	93.9	98.4	104.0
77.5°	59.6	62.2	66.0	69.7	74.9
80°	39.9	41.0	44.3	45.1	49.2
82.5°	24.2	25.0	25.7	26.1	27.6
85°	13.0	13.0	13.0	12.3	12.3
87.5°	7.5	7.5	6.3	5.2	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)