

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: P554236

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-80-96-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: P554236  
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-40-UNV-80-96-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

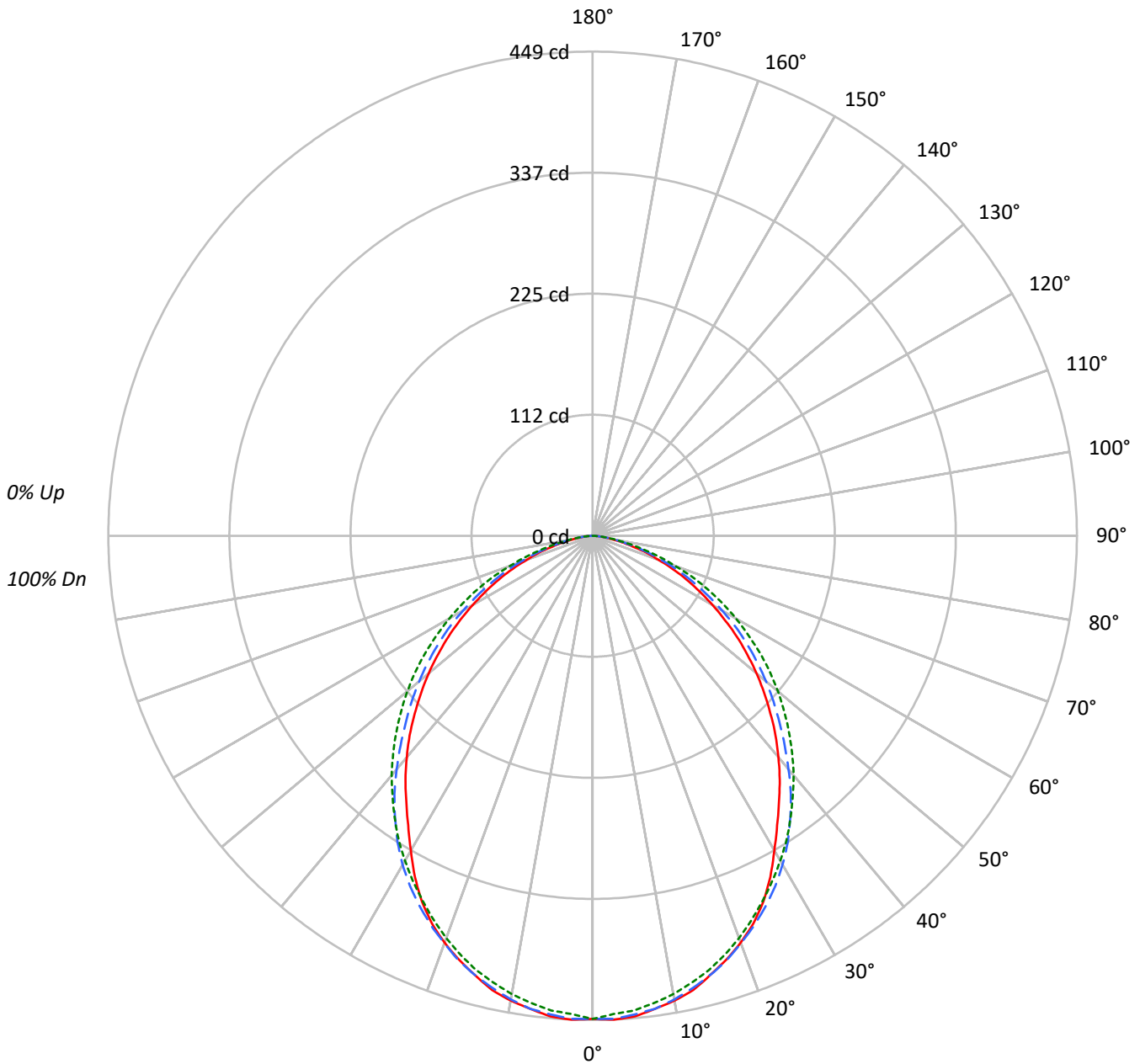
Lumens per Lamp: N/A  
Luminaire Lumens: 1036.0 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
Input Voltage (V): NR  
Input Current (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°	2411	2411	2411
5°	2418	2407	2387
10°	2392	2385	2358
15°	2350	2350	2323
20°	2300	2303	2273
25°	2224	2252	2216
30°	2094	2189	2162
35°	1979	2098	2101
40°	1883	1985	2037
45°	1775	1864	1960
50°	1662	1757	1876
55°	1532	1635	1775
60°	1380	1492	1651
65°	1219	1326	1501
70°	1015	1130	1276
75°	799	902	998
80°	570	635	704
85°	371	371	352



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.2	4.1
10°-20°	118.5	11.4
20°-30°	173.2	16.7
30°-40°	196.6	19.0
40°-50°	189.8	18.3
50°-60°	156.5	15.1
60°-70°	104.2	10.1
70°-80°	46.6	4.5
80°-90°	8.3	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°	333.9	32.2
0°-40°	530.5	51.2
0°-60°	876.8	84.6
0°-90°	1036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1036.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	448	448	448	448	448	
5°	448	447	446	443	442	42
15°	422	423	422	420	417	119
25°	374	378	379	376	373	172
35°	301	305	319	321	320	189
45°	233	237	245	256	258	180
55°	163	166	174	184	189	146
65°	96	98	104	112	118	95
75°	38	40	43	45	48	42
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	448.0	448.0	448.0	448.0	448.0
2.5°	449.2	449.4	448.4	445.6	443.9
5°	447.5	447.4	445.6	443.2	441.8
7.5°	442.5	442.9	442.4	438.9	437.0
10°	437.7	437.9	436.5	433.8	431.5
12.5°	431.5	431.3	429.5	428.1	424.5
15°	421.7	422.7	421.7	419.8	416.9
17.5°	412.2	412.2	412.9	409.7	407.4
20°	401.6	402.1	402.1	399.5	396.9
22.5°	389.2	390.7	391.2	388.5	385.4
25°	374.5	377.5	379.2	376.4	373.2
27.5°	356.8	361.3	366.5	364.4	360.8
30°	337.0	343.6	352.2	350.4	347.9
32.5°	318.3	324.8	336.7	336.0	334.6
35°	301.2	305.4	319.3	321.0	319.8
37.5°	285.0	288.8	301.9	305.9	304.8
40°	268.0	272.1	282.5	289.5	289.9
42.5°	251.1	255.1	263.5	273.7	273.7
45°	233.2	237.2	244.9	256.1	257.5
47.5°	215.7	219.8	227.4	238.6	240.8
50°	198.5	202.2	209.8	220.7	224.1
52.5°	180.6	184.7	192.1	202.1	207.1
55°	163.3	166.1	174.2	183.8	189.2
57.5°	145.4	148.0	157.2	165.4	170.9
60°	128.2	131.5	138.6	147.0	153.4
62.5°	111.7	115.2	121.2	128.6	135.8
65°	95.7	98.3	104.1	111.5	117.9
67.5°	80.2	82.4	88.3	93.5	100.2
70°	64.5	67.5	71.8	76.8	81.1
72.5°	52.0	53.2	56.8	60.4	64.9
75°	38.4	40.4	43.4	45.4	48.0
77.5°	27.5	28.7	30.5	32.2	34.6
80°	18.4	18.9	20.5	20.8	22.7
82.5°	11.2	11.5	11.9	12.0	12.7
85°	6.0	6.0	6.0	5.7	5.7
87.5°	3.4	3.4	2.9	2.4	1.7
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)