

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: P554207

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-82-97-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: P554207  
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-35-UNV-82-97-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375  
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

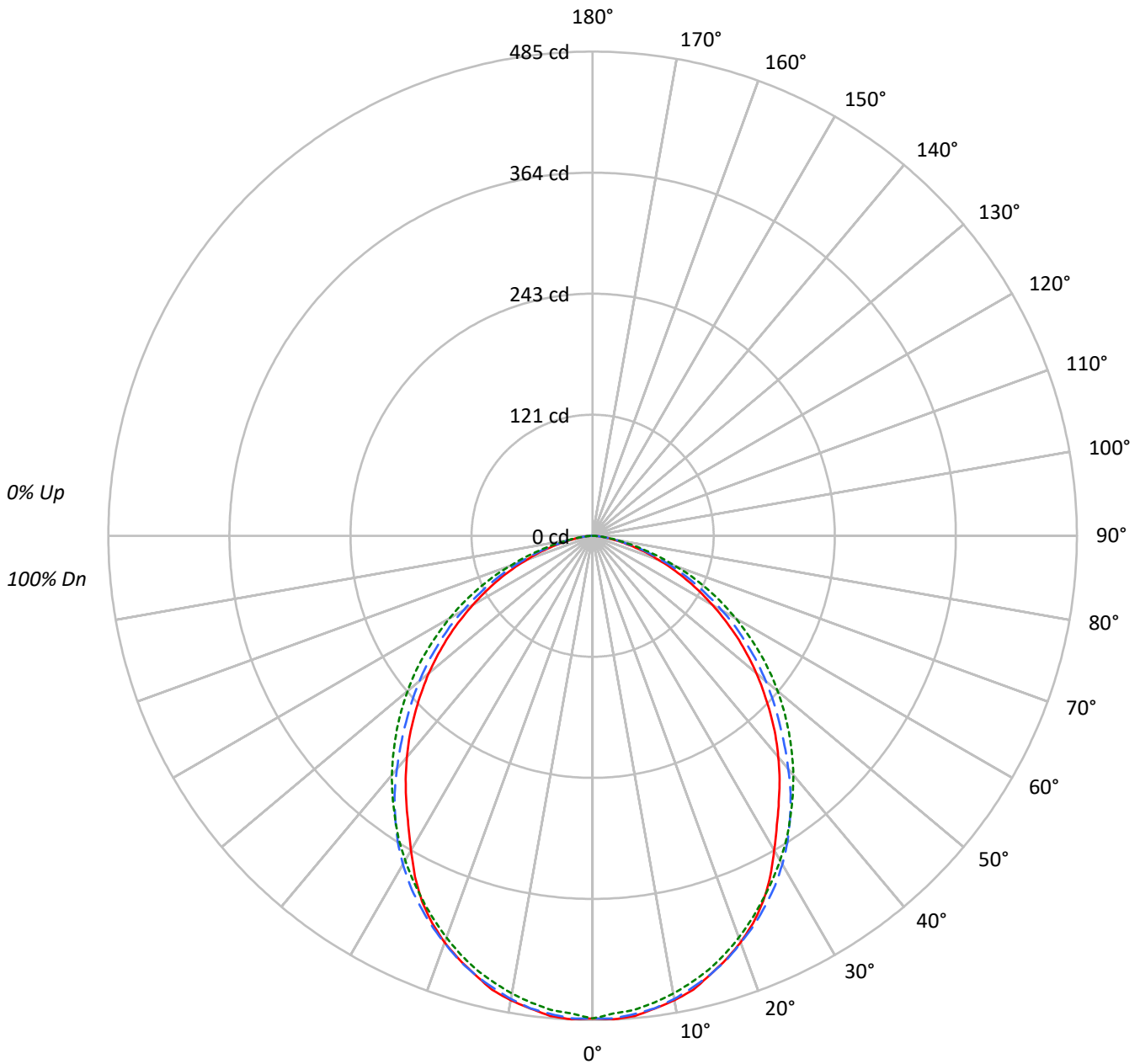
Lumens per Lamp: N/A  
Luminaire Lumens: 1118.0 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	2602	2602	2602
5°	2609	2598	2576
10°	2582	2575	2545
15°	2536	2536	2507
20°	2482	2485	2453
25°	2400	2430	2391
30°	2260	2362	2333
35°	2136	2264	2267
40°	2032	2141	2198
45°	1916	2012	2115
50°	1793	1896	2025
55°	1654	1764	1915
60°	1490	1609	1781
65°	1316	1431	1620
70°	1097	1220	1377
75°	861	973	1077
80°	617	685	759
85°	401	401	377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.5	4.1
10°-20°	127.9	11.4
20°-30°	186.9	16.7
30°-40°	212.1	19.0
40°-50°	204.8	18.3
50°-60°	168.9	15.1
60°-70°	112.5	10.1
70°-80°	50.3	4.5
80°-90°	9.0	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°	360.3	32.2
0°-40°	572.4	51.2
0°-60°	946.2	84.6
0°-90°	1118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1118.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	483	483	481	478	477	46
15°	455	456	455	453	450	128
25°	404	407	409	406	403	185
35°	325	330	345	346	345	204
45°	252	256	264	276	278	194
55°	176	179	188	198	204	157
65°	103	106	112	120	127	102
75°	41	44	47	49	52	45
85°	6	6	6	6	6	9
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	483.5	483.5	483.5	483.5	483.5
2.5°	484.8	485.0	483.9	480.9	479.0
5°	482.9	482.8	480.9	478.3	476.8
7.5°	477.6	477.9	477.4	473.7	471.6
10°	472.4	472.5	471.1	468.1	465.7
12.5°	465.7	465.5	463.4	462.0	458.1
15°	455.1	456.2	455.1	453.0	449.9
17.5°	444.9	444.9	445.6	442.1	439.7
20°	433.4	433.9	433.9	431.1	428.3
22.5°	420.0	421.7	422.2	419.2	415.9
25°	404.2	407.3	409.2	406.2	402.7
27.5°	385.1	389.9	395.5	393.2	389.3
30°	363.7	370.8	380.0	378.2	375.4
32.5°	343.5	350.5	363.3	362.6	361.1
35°	325.1	329.5	344.6	346.4	345.1
37.5°	307.6	311.7	325.8	330.1	329.0
40°	289.2	293.7	304.8	312.4	312.8
42.5°	271.0	275.3	284.4	295.3	295.3
45°	251.7	256.0	264.3	276.4	277.9
47.5°	232.7	237.2	245.4	257.4	259.9
50°	214.2	218.3	226.4	238.1	241.8
52.5°	194.9	199.3	207.3	218.1	223.5
55°	176.3	179.2	188.0	198.4	204.1
57.5°	157.0	159.7	169.6	178.5	184.4
60°	138.4	141.9	149.5	158.6	165.5
62.5°	120.6	124.3	130.8	138.8	146.6
65°	103.3	106.1	112.4	120.4	127.2
67.5°	86.6	89.0	95.3	100.9	108.1
70°	69.7	72.8	77.5	82.8	87.5
72.5°	56.1	57.4	61.3	65.2	70.0
75°	41.4	43.7	46.8	49.0	51.8
77.5°	29.7	31.0	32.9	34.7	37.3
80°	19.9	20.4	22.1	22.5	24.5
82.5°	12.1	12.4	12.8	13.0	13.7
85°	6.5	6.5	6.5	6.1	6.1
87.5°	3.7	3.7	3.2	2.6	1.9
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)