

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: P554430

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-80-97-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: P554430  
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-LD4-1STD-35-UNV-80-97-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND  
3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

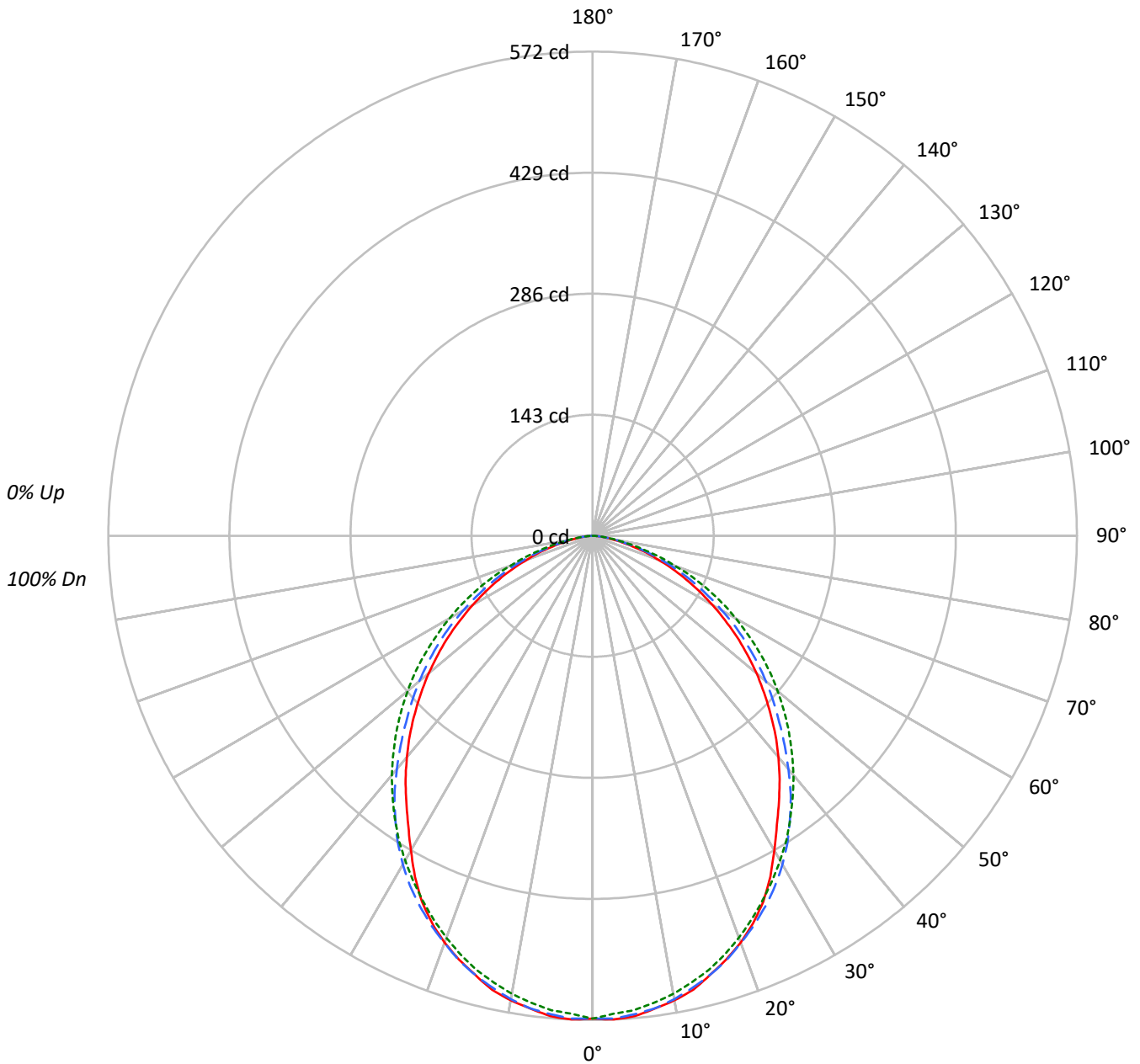
Lumens per Lamp: N/A  
Luminaire Lumens: 1319.0 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.6  
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°	3070	3070	3070
5°	3078	3065	3039
10°	3046	3037	3002
15°	2992	2992	2958
20°	2928	2932	2894
25°	2832	2867	2821
30°	2667	2787	2752
35°	2520	2671	2675
40°	2397	2526	2592
45°	2260	2373	2495
50°	2116	2236	2389
55°	1952	2081	2259
60°	1758	1899	2102
65°	1551	1689	1911
70°	1293	1438	1624
75°	1017	1148	1271
80°	725	809	896
85°	475	475	445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.7	4.1
10°-20°	150.9	11.4
20°-30°	220.5	16.7
30°-40°	250.3	19.0
40°-50°	241.6	18.3
50°-60°	199.3	15.1
60°-70°	132.7	10.1
70°-80°	59.4	4.5
80°-90°	10.6	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°	425.1	32.2
0°-40°	675.4	51.2
0°-60°	1116.3	84.6
0°-90°	1319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1319.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	570	570	567	564	562	54
15°	537	538	537	534	531	151
25°	477	481	483	479	475	218
35°	384	389	406	409	407	240
45°	297	302	312	326	328	229
55°	208	212	222	234	241	186
65°	122	125	133	142	150	121
75°	49	52	55	58	61	53
85°	8	8	8	7	7	10
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	570.4	570.4	570.4	570.4	570.4
2.5°	572.0	572.2	570.9	567.4	565.2
5°	569.8	569.6	567.4	564.3	562.5
7.5°	563.4	563.9	563.2	558.8	556.4
10°	557.3	557.5	555.8	552.2	549.4
12.5°	549.4	549.2	546.8	545.0	540.4
15°	536.9	538.2	536.9	534.5	530.8
17.5°	524.9	524.9	525.7	521.6	518.7
20°	511.3	511.9	511.9	508.6	505.3
22.5°	495.5	497.5	498.1	494.6	490.7
25°	476.9	480.6	482.8	479.3	475.1
27.5°	454.3	460.0	466.6	463.9	459.3
30°	429.1	437.4	448.4	446.2	442.9
32.5°	405.2	413.5	428.6	427.8	426.0
35°	383.5	388.8	406.5	408.7	407.2
37.5°	362.9	367.7	384.4	389.4	388.1
40°	341.2	346.5	359.6	368.6	369.0
42.5°	319.7	324.8	335.5	348.4	348.4
45°	296.9	302.0	311.8	326.1	327.8
47.5°	274.6	279.8	289.5	303.7	306.6
50°	252.7	257.5	267.1	280.9	285.3
52.5°	229.9	235.1	244.6	257.3	263.6
55°	208.0	211.5	221.8	234.0	240.8
57.5°	185.2	188.5	200.1	210.6	217.6
60°	163.3	167.4	176.4	187.1	195.3
62.5°	142.2	146.6	154.3	163.7	172.9
65°	121.8	125.1	132.6	142.0	150.1
67.5°	102.1	105.0	112.4	119.0	127.5
70°	82.2	85.9	91.4	97.7	103.2
72.5°	66.2	67.7	72.3	76.9	82.6
75°	48.9	51.5	55.2	57.9	61.1
77.5°	35.1	36.6	38.8	41.0	44.0
80°	23.4	24.1	26.1	26.5	28.9
82.5°	14.2	14.7	15.1	15.3	16.2
85°	7.7	7.7	7.7	7.2	7.2
87.5°	4.4	4.4	3.7	3.1	2.2
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)