

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: P554926

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-93-97-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: P554926  
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-93-97-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

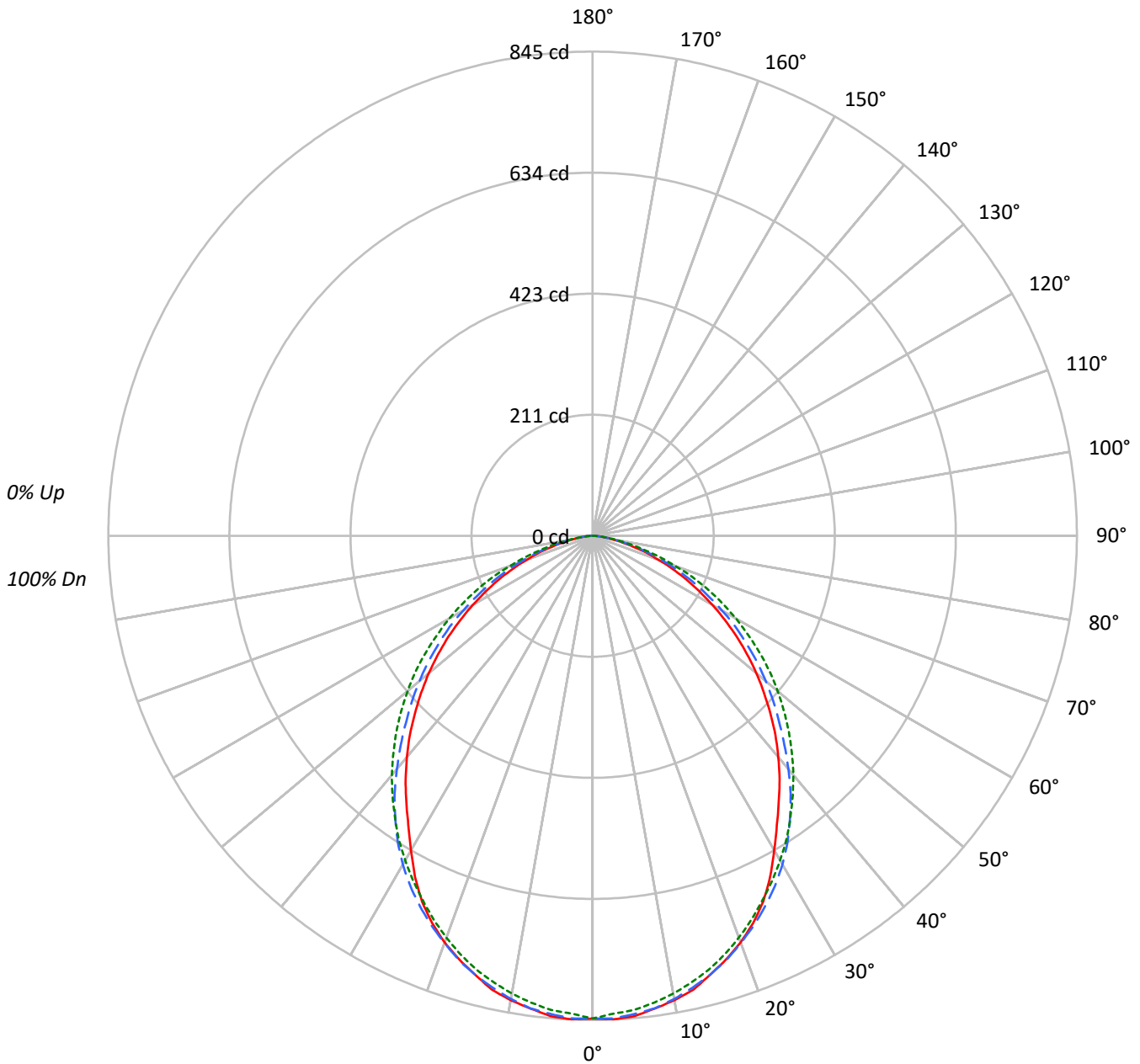
Lumens per Lamp: N/A  
Luminaire Lumens: 1948.0 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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				20				
RC	80				70				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°	4534	4534	4534
5°	4546	4527	4488
10°	4498	4486	4434
15°	4418	4418	4368
20°	4325	4330	4274
25°	4182	4234	4167
30°	3938	4115	4065
35°	3721	3945	3951
40°	3540	3731	3829
45°	3338	3506	3685
50°	3125	3303	3528
55°	2882	3073	3338
60°	2595	2804	3104
65°	2291	2493	2823
70°	1910	2124	2398
75°	1501	1697	1878
80°	1072	1193	1323
85°	698	698	661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.3	4.1
10°-20°	222.8	11.4
20°-30°	325.6	16.7
30°-40°	369.6	19.0
40°-50°	356.8	18.3
50°-60°	294.4	15.1
60°-70°	196.0	10.1
70°-80°	87.7	4.5
80°-90°	15.7	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°	627.8	32.2
0°-40°	997.4	51.2
0°-60°	1648.6	84.6
0°-90°	1948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1948.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	842	841	838	833	831	80
15°	793	795	793	789	784	224
25°	704	710	713	708	702	323
35°	566	574	600	604	601	355
45°	438	446	461	482	484	338
55°	307	312	328	346	356	274
65°	180	185	196	210	222	178
75°	72	76	82	85	90	79
85°	11	11	11	11	11	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	842.5	842.5	842.5	842.5	842.5
2.5°	844.7	845.0	843.1	837.9	834.7
5°	841.5	841.2	837.9	833.4	830.8
7.5°	832.1	832.8	831.8	825.3	821.7
10°	823.0	823.4	820.8	815.6	811.4
12.5°	811.4	811.1	807.5	804.9	798.1
15°	792.9	794.9	792.9	789.4	783.9
17.5°	775.1	775.1	776.4	770.3	766.1
20°	755.1	756.0	756.0	751.2	746.3
22.5°	731.8	734.7	735.7	730.5	724.7
25°	704.3	709.8	713.0	707.8	701.7
27.5°	670.9	679.3	689.0	685.2	678.4
30°	633.7	646.0	662.2	659.0	654.1
32.5°	598.4	610.7	633.1	631.8	629.2
35°	566.4	574.2	600.4	603.6	601.3
37.5°	536.0	543.1	567.7	575.1	573.2
40°	503.9	511.7	531.1	544.4	545.0
42.5°	472.2	479.6	495.5	514.6	514.6
45°	438.5	446.0	460.6	481.6	484.2
47.5°	405.5	413.3	427.5	448.6	452.8
50°	373.2	380.3	394.5	414.9	421.4
52.5°	339.5	347.3	361.2	380.0	389.4
55°	307.1	312.3	327.5	345.7	355.7
57.5°	273.5	278.3	295.5	311.0	321.4
60°	241.1	247.3	260.5	276.4	288.4
62.5°	210.0	216.5	227.8	241.8	255.4
65°	179.9	184.8	195.8	209.7	221.7
67.5°	150.8	155.0	166.0	175.7	188.4
70°	121.4	126.9	135.0	144.3	152.4
72.5°	97.7	100.0	106.8	113.6	122.0
75°	72.2	76.1	81.6	85.4	90.3
77.5°	51.8	54.0	57.3	60.5	65.1
80°	34.6	35.6	38.5	39.2	42.7
82.5°	21.0	21.7	22.3	22.7	24.0
85°	11.3	11.3	11.3	10.7	10.7
87.5°	6.5	6.5	5.5	4.5	3.2
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)