

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: P554892

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-81-96-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: P554892  
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-81-96-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDES  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

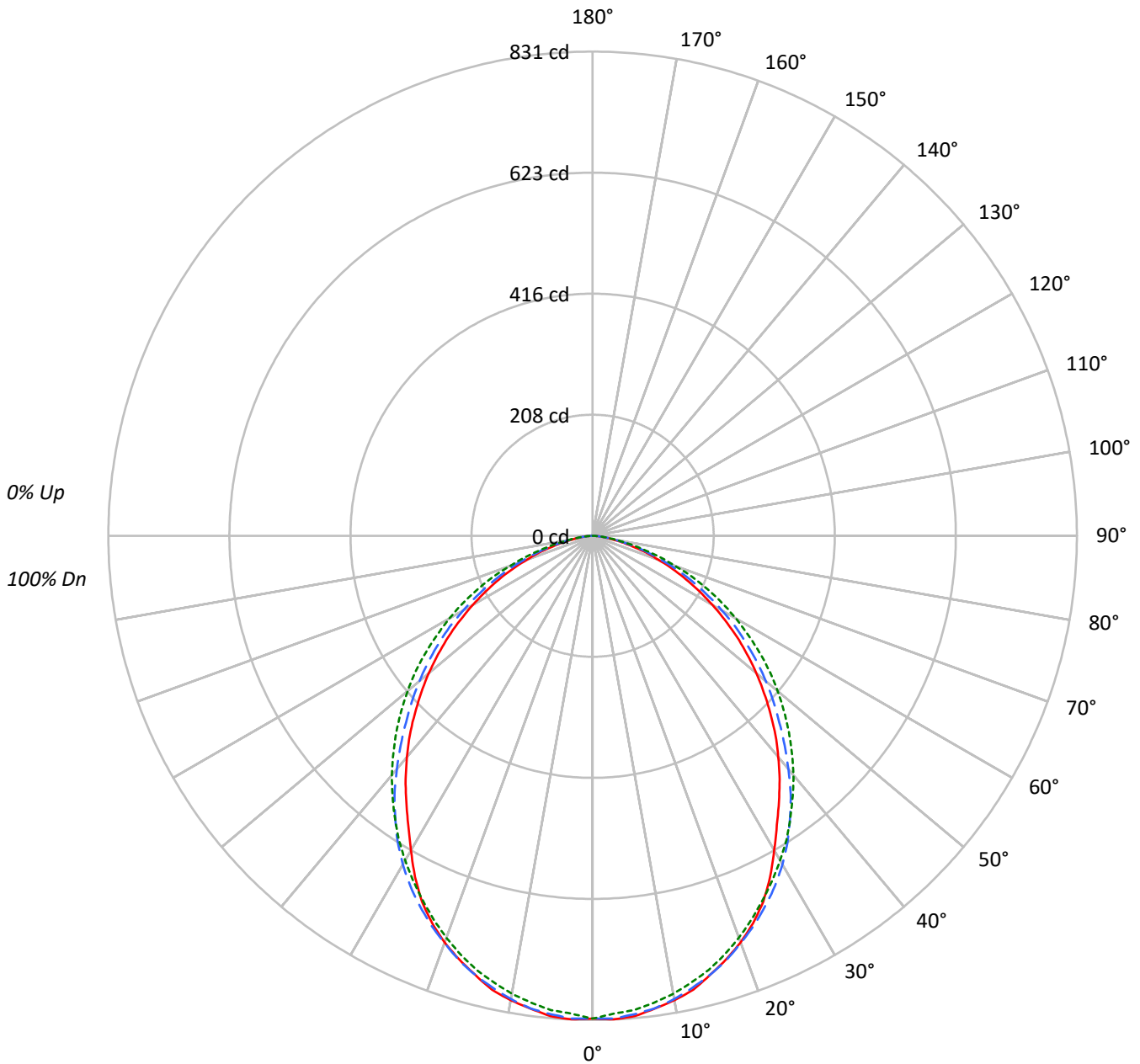
Lumens per Lamp: N/A  
Luminaire Lumens: 1916.0 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	4459	4459	4459
5°	4472	4453	4415
10°	4424	4412	4362
15°	4345	4345	4296
20°	4254	4259	4204
25°	4113	4165	4098
30°	3874	4048	3998
35°	3660	3880	3886
40°	3482	3670	3766
45°	3283	3448	3624
50°	3073	3249	3471
55°	2835	3023	3282
60°	2553	2759	3053
65°	2254	2453	2777
70°	1879	2088	2359
75°	1476	1668	1847
80°	1057	1175	1302
85°	685	685	648



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.0	4.1
10°-20°	219.2	11.4
20°-30°	320.3	16.7
30°-40°	363.6	19.0
40°-50°	351.0	18.3
50°-60°	289.5	15.1
60°-70°	192.8	10.1
70°-80°	86.3	4.5
80°-90°	15.4	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°	617.5	32.2
0°-40°	981.0	51.2
0°-60°	1621.5	84.6
0°-90°	1916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1916.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	829	829	829	829	829	
5°	828	827	824	820	817	78
15°	780	782	780	776	771	220
25°	693	698	701	696	690	317
35°	557	565	590	594	592	349
45°	431	439	453	474	476	333
55°	302	307	322	340	350	270
65°	177	182	193	206	218	175
75°	71	75	80	84	89	78
85°	11	11	11	10	10	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	828.6	828.6	828.6	828.6	828.6
2.5°	830.8	831.2	829.3	824.2	821.0
5°	827.7	827.3	824.2	819.7	817.2
7.5°	818.4	819.1	818.1	811.7	808.2
10°	809.5	809.8	807.3	802.2	798.1
12.5°	798.1	797.7	794.2	791.7	785.0
15°	779.9	781.8	779.9	776.4	771.0
17.5°	762.4	762.4	763.7	757.6	753.5
20°	742.7	743.6	743.6	738.9	734.1
22.5°	719.8	722.6	723.6	718.5	712.7
25°	692.7	698.1	701.3	696.2	690.1
27.5°	659.9	668.2	677.7	673.9	667.2
30°	623.3	635.4	651.3	648.1	643.4
32.5°	588.6	600.7	622.7	621.4	618.8
35°	557.1	564.7	590.5	593.7	591.5
37.5°	527.2	534.2	558.4	565.7	563.8
40°	495.6	503.3	522.4	535.4	536.1
42.5°	464.4	471.8	487.4	506.1	506.1
45°	431.3	438.7	453.0	473.7	476.2
47.5°	398.9	406.5	420.5	441.2	445.3
50°	367.0	374.0	388.0	408.1	414.5
52.5°	333.9	341.6	355.3	373.7	383.0
55°	302.1	307.2	322.2	340.0	349.8
57.5°	269.0	273.8	290.6	305.9	316.1
60°	237.2	243.2	256.3	271.9	283.6
62.5°	206.6	213.0	224.1	237.8	251.2
65°	177.0	181.8	192.6	206.3	218.1
67.5°	148.3	152.5	163.3	172.9	185.3
70°	119.4	124.8	132.7	142.0	149.9
72.5°	96.1	98.4	105.0	111.7	120.0
75°	71.0	74.8	80.2	84.0	88.8
77.5°	50.9	53.2	56.3	59.5	64.0
80°	34.1	35.0	37.9	38.5	42.0
82.5°	20.7	21.3	22.0	22.3	23.6
85°	11.1	11.1	11.1	10.5	10.5
87.5°	6.4	6.4	5.4	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)