

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: P554900

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-82-86-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: P554900
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-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

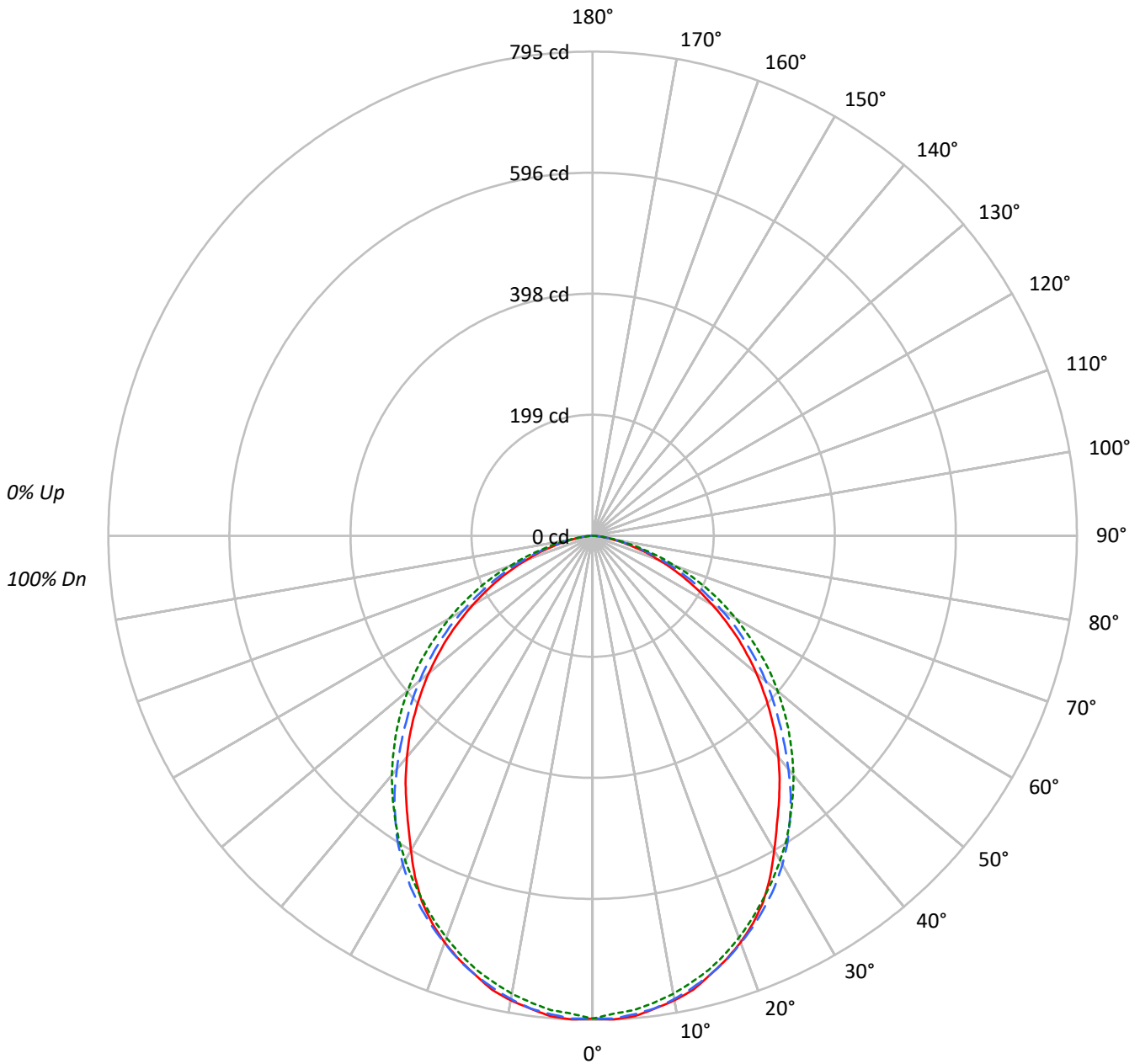
Lumens per Lamp: N/A
Luminaire Lumens: 1833.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): 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

TEST NUMBER: P554900

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-82-86-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554900

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-82-86-EDD-90

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°	4266	4266	4266
5°	4278	4260	4224
10°	4233	4221	4173
15°	4157	4157	4110
20°	4069	4074	4022
25°	3935	3984	3920
30°	3706	3872	3825
35°	3502	3711	3717
40°	3332	3511	3603
45°	3141	3299	3468
50°	2940	3108	3320
55°	2712	2892	3141
60°	2442	2639	2920
65°	2156	2346	2656
70°	1797	1998	2257
75°	1412	1595	1768
80°	1010	1122	1246
85°	661	661	618



TEST NUMBER: P554900

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-82-86-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	4.1
10°-20°	209.7	11.4
20°-30°	306.4	16.7
30°-40°	347.8	19.0
40°-50°	335.8	18.3
50°-60°	277.0	15.1
60°-70°	184.4	10.1
70°-80°	82.5	4.5
80°-90°	14.8	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°	590.7	32.2
0°-40°	938.5	51.2
0°-60°	1551.3	84.6
0°-90°	1833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	793	793	793	793	793	
5°	792	792	788	784	782	75
15°	746	748	746	743	738	210
25°	663	668	671	666	660	303
35°	533	540	565	568	566	334
45°	413	420	433	453	456	318
55°	289	294	308	325	335	258
65°	169	174	184	197	209	168
75°	68	72	77	80	85	74
85°	11	11	11	10	10	14
90°	0	0	0	0	0	



TEST NUMBER: P554900

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-82-86-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	792.7	792.7	792.7	792.7	792.7
2.5°	794.9	795.2	793.3	788.5	785.4
5°	791.8	791.5	788.5	784.2	781.8
7.5°	783.0	783.6	782.7	776.6	773.2
10°	774.5	774.8	772.3	767.4	763.5
12.5°	763.5	763.2	759.8	757.4	751.0
15°	746.1	748.0	746.1	742.8	737.6
17.5°	729.4	729.4	730.6	724.8	720.9
20°	710.5	711.4	711.4	706.8	702.3
22.5°	688.6	691.3	692.2	687.4	681.9
25°	662.7	667.9	670.9	666.0	660.2
27.5°	631.3	639.2	648.4	644.7	638.3
30°	596.3	607.9	623.1	620.0	615.5
32.5°	563.1	574.7	595.7	594.5	592.0
35°	533.0	540.3	564.9	568.0	565.8
37.5°	504.3	511.0	534.2	541.2	539.3
40°	474.2	481.5	499.8	512.2	512.9
42.5°	444.3	451.3	466.3	484.2	484.2
45°	412.7	419.7	433.4	453.2	455.6
47.5°	381.6	388.9	402.3	422.1	426.1
50°	351.1	357.8	371.2	390.4	396.5
52.5°	319.5	326.8	339.9	357.5	366.4
55°	289.0	293.9	308.2	325.3	334.7
57.5°	257.3	261.9	278.0	292.7	302.4
60°	226.9	232.7	245.2	260.1	271.3
62.5°	197.6	203.7	214.4	227.5	240.3
65°	169.3	173.9	184.2	197.3	208.6
67.5°	141.9	145.9	156.2	165.4	177.2
70°	114.2	119.4	127.0	135.8	143.4
72.5°	92.0	94.1	100.5	106.9	114.8
75°	67.9	71.6	76.7	80.4	85.0
77.5°	48.7	50.9	53.9	56.9	61.2
80°	32.6	33.5	36.2	36.8	40.2
82.5°	19.8	20.4	21.0	21.3	22.5
85°	10.7	10.7	10.7	10.0	10.0
87.5°	6.1	6.1	5.2	4.3	3.0
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)