

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: P555086

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-81-97-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: P555086
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-50-UNV-81-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

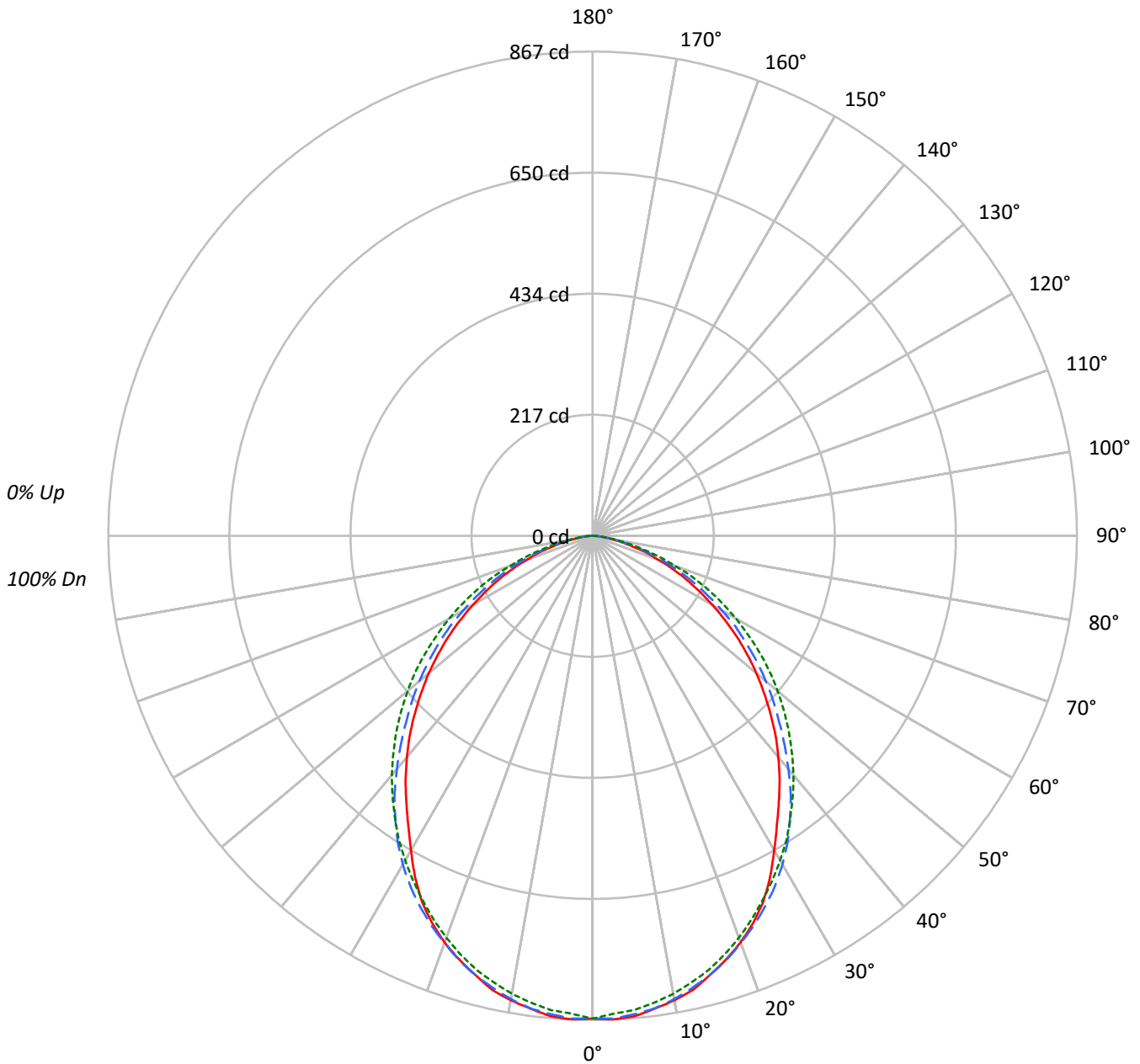
Lumens per Lamp: N/A
Luminaire Lumens: 1999.0 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): 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: P555086

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-81-97-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555086

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-81-97-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°	4653	4653	4653
5°	4665	4646	4606
10°	4616	4603	4550
15°	4534	4534	4482
20°	4438	4443	4387
25°	4292	4345	4276
30°	4041	4223	4171
35°	3819	4048	4054
40°	3633	3829	3929
45°	3425	3597	3782
50°	3206	3390	3620
55°	2958	3154	3425
60°	2663	2878	3185
65°	2352	2558	2897
70°	1959	2179	2461
75°	1541	1740	1928
80°	1100	1224	1358
85°	716	716	679



TEST NUMBER: P555086

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-81-97-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	4.1
10°-20°	228.7	11.4
20°-30°	334.2	16.7
30°-40°	379.3	19.0
40°-50°	366.2	18.3
50°-60°	302.0	15.1
60°-70°	201.1	10.1
70°-80°	90.0	4.5
80°-90°	16.1	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°	644.2	32.2
0°-40°	1023.5	51.2
0°-60°	1691.7	84.6
0°-90°	1999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	864	863	860	855	853	82
15°	814	816	814	810	804	229
25°	723	728	732	726	720	331
35°	581	589	616	619	617	364
45°	450	458	473	494	497	347
55°	315	320	336	355	365	281
65°	185	190	201	215	228	183
75°	74	78	84	88	93	81
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



TEST NUMBER: P555086

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-81-97-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.5	864.5	864.5	864.5	864.5
2.5°	866.8	867.2	865.2	859.9	856.5
5°	863.5	863.2	859.9	855.2	852.6
7.5°	853.9	854.6	853.6	846.9	843.3
10°	844.6	844.9	842.3	836.9	832.6
12.5°	832.6	832.3	828.6	826.0	819.0
15°	813.7	815.7	813.7	810.0	804.4
17.5°	795.4	795.4	796.8	790.5	786.1
20°	774.8	775.8	775.8	770.9	765.9
22.5°	750.9	753.9	754.9	749.6	743.6
25°	722.7	728.3	731.7	726.4	720.0
27.5°	688.5	697.1	707.1	703.1	696.1
30°	650.3	662.9	679.5	676.2	671.2
32.5°	614.1	626.7	649.6	648.3	645.6
35°	581.2	589.2	616.1	619.4	617.1
37.5°	550.0	557.3	582.5	590.2	588.2
40°	517.1	525.1	545.0	558.6	559.3
42.5°	484.6	492.2	508.5	528.1	528.1
45°	450.0	457.7	472.6	494.2	496.9
47.5°	416.1	424.1	438.7	460.3	464.6
50°	382.9	390.2	404.9	425.8	432.4
52.5°	348.4	356.4	370.6	389.9	399.5
55°	315.2	320.5	336.1	354.7	365.0
57.5°	280.6	285.6	303.2	319.2	329.8
60°	247.4	253.7	267.4	283.6	295.9
62.5°	215.5	222.2	233.8	248.1	262.0
65°	184.7	189.6	200.9	215.2	227.5
67.5°	154.8	159.1	170.4	180.3	193.3
70°	124.5	130.2	138.5	148.1	156.4
72.5°	100.3	102.6	109.6	116.6	125.2
75°	74.1	78.0	83.7	87.7	92.7
77.5°	53.1	55.5	58.8	62.1	66.8
80°	35.5	36.5	39.5	40.2	43.8
82.5°	21.6	22.3	22.9	23.2	24.6
85°	11.6	11.6	11.6	11.0	11.0
87.5°	6.6	6.6	5.6	4.6	3.3
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)