

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: P555091

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-82-85-EDD**

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: P555091
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-82-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

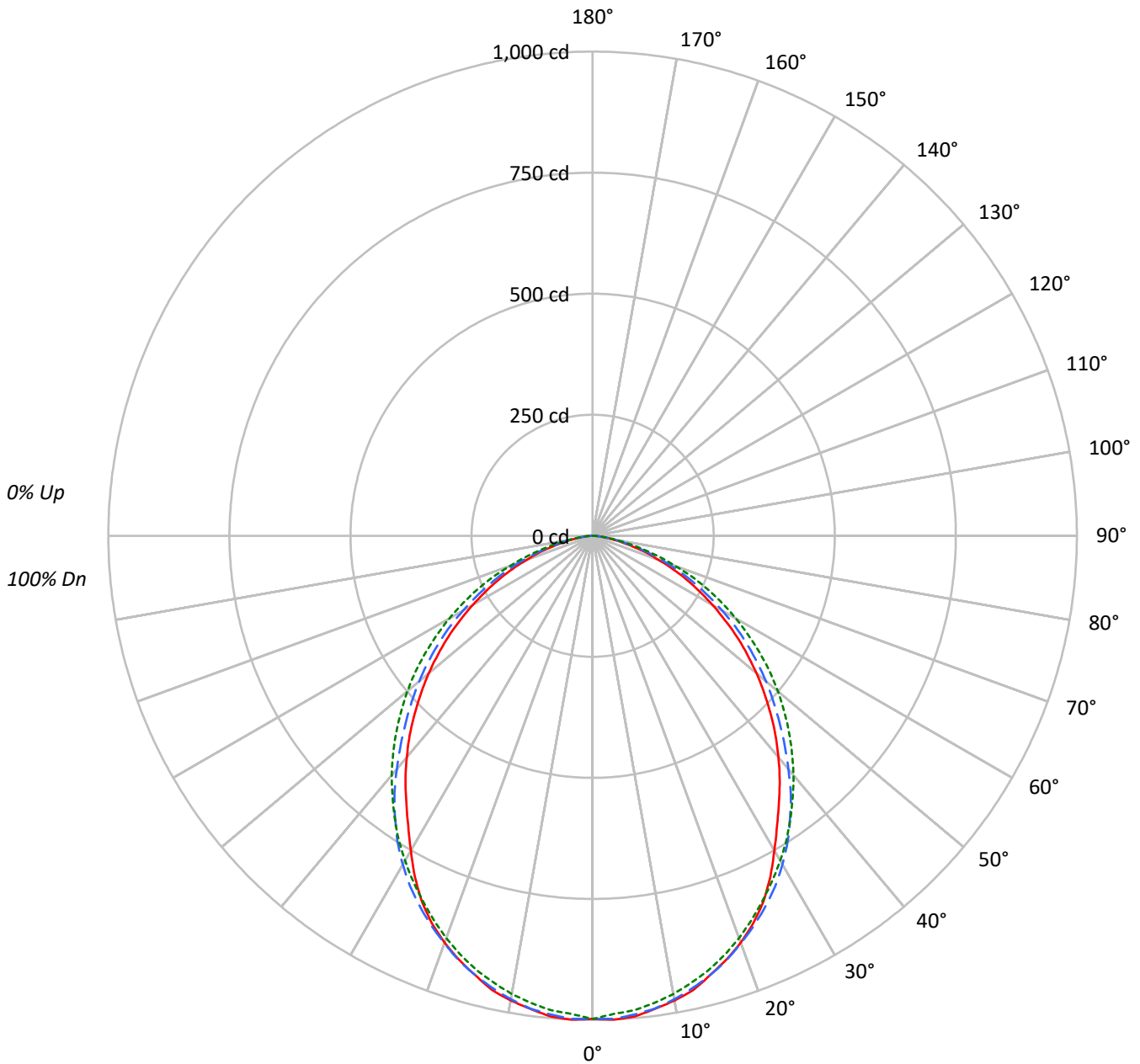
Lumens per Lamp: N/A
Luminaire Lumens: 2307.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555091

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-82-85-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555091

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-82-85-EDD

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°	5370	5370	5370
5°	5384	5361	5316
10°	5327	5312	5251
15°	5232	5232	5172
20°	5121	5128	5062
25°	4953	5014	4935
30°	4664	4873	4814
35°	4407	4671	4679
40°	4193	4419	4535
45°	3953	4151	4364
50°	3700	3912	4179
55°	3413	3640	3952
60°	3074	3322	3676
65°	2714	2953	3344
70°	2261	2515	2840
75°	1778	2009	2223
80°	1271	1413	1568
85°	827	827	778



TEST NUMBER: P555091

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-82-85-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	4.1
10°-20°	263.9	11.4
20°-30°	385.6	16.7
30°-40°	437.7	19.0
40°-50°	422.6	18.3
50°-60°	348.6	15.1
60°-70°	232.1	10.1
70°-80°	103.9	4.5
80°-90°	18.6	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°	743.5	32.2
0°-40°	1181.2	51.2
0°-60°	1952.4	84.6
0°-90°	2307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	997	996	992	987	984	94
15°	939	941	939	935	928	265
25°	834	841	844	838	831	382
35°	671	680	711	715	712	420
45°	519	528	545	570	573	401
55°	364	370	388	409	421	325
65°	213	219	232	248	263	211
75°	86	90	97	101	107	93
85°	13	13	13	13	13	18
90°	0	0	0	0	0	



TEST NUMBER: P555091

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-82-85-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	997.7	997.7	997.7	997.7	997.7
2.5°	1000.4	1000.8	998.5	992.4	988.5
5°	996.6	996.2	992.4	987.0	983.9
7.5°	985.5	986.2	985.1	977.4	973.2
10°	974.7	975.1	972.0	965.9	960.9
12.5°	960.9	960.5	956.3	953.3	945.2
15°	939.1	941.4	939.1	934.9	928.3
17.5°	918.0	918.0	919.5	912.2	907.3
20°	894.2	895.4	895.4	889.6	883.9
22.5°	866.6	870.1	871.2	865.1	858.2
25°	834.1	840.6	844.4	838.3	831.0
27.5°	794.6	804.5	816.0	811.4	803.4
30°	750.5	765.1	784.2	780.4	774.6
32.5°	708.7	723.3	749.7	748.2	745.1
35°	670.8	680.0	711.0	714.8	712.2
37.5°	634.7	643.2	672.3	681.1	678.8
40°	596.8	606.0	629.0	644.7	645.5
42.5°	559.2	568.0	586.8	609.4	609.4
45°	519.4	528.2	545.4	570.3	573.4
47.5°	480.3	489.5	506.3	531.2	536.2
50°	441.9	450.4	467.2	491.4	499.1
52.5°	402.1	411.3	427.8	450.0	461.1
55°	363.7	369.9	387.9	409.4	421.2
57.5°	323.9	329.6	349.9	368.3	380.6
60°	285.6	292.8	308.6	327.3	341.5
62.5°	248.8	256.4	269.8	286.3	302.4
65°	213.1	218.9	231.9	248.4	262.6
67.5°	178.6	183.6	196.6	208.1	223.1
70°	143.7	150.3	159.8	170.9	180.5
72.5°	115.8	118.4	126.5	134.5	144.5
75°	85.5	90.1	96.6	101.2	106.9
77.5°	61.3	64.0	67.8	71.7	77.0
80°	41.0	42.2	45.6	46.4	50.6
82.5°	24.9	25.7	26.4	26.8	28.4
85°	13.4	13.4	13.4	12.6	12.6
87.5°	7.7	7.7	6.5	5.4	3.8
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)