

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: P555118

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-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: P555118
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-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

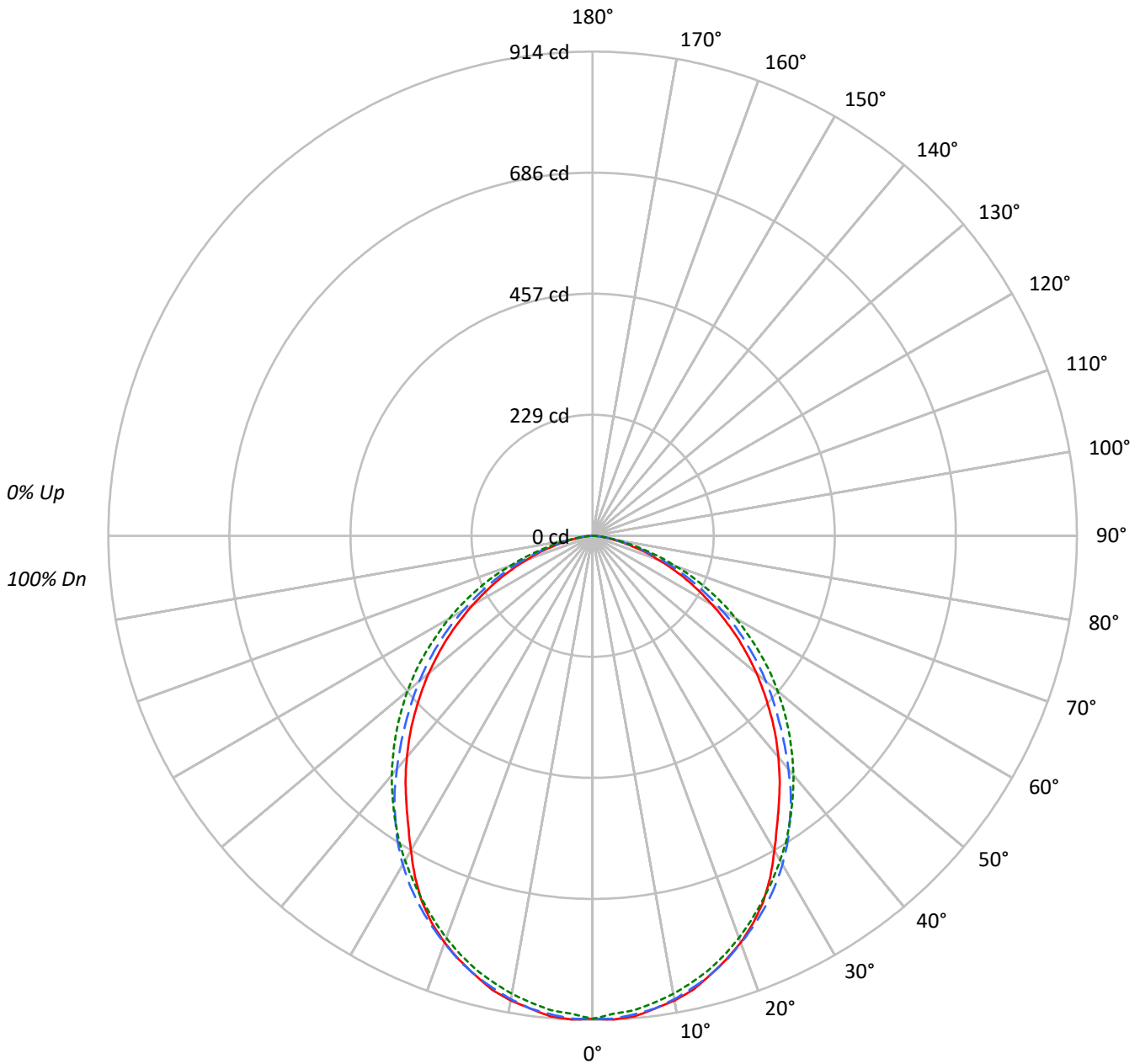
Lumens per Lamp: N/A
Luminaire Lumens: 2108.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555118

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-93-97-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555118

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-93-97-EDD-90

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4907	4907	4907
5°	4920	4899	4857
10°	4867	4854	4798
15°	4781	4781	4727
20°	4680	4686	4625
25°	4526	4582	4509
30°	4262	4453	4399
35°	4027	4269	4275
40°	3831	4038	4144
45°	3612	3793	3988
50°	3381	3574	3818
55°	3119	3325	3612
60°	2808	3034	3359
65°	2479	2699	3055
70°	2066	2297	2596
75°	1624	1836	2032
80°	1162	1292	1432
85°	760	760	716



TEST NUMBER: P555118

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-93-97-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	4.1
10°-20°	241.1	11.4
20°-30°	352.4	16.7
30°-40°	400.0	19.0
40°-50°	386.1	18.3
50°-60°	318.5	15.1
60°-70°	212.1	10.1
70°-80°	94.9	4.5
80°-90°	17.0	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°	679.3	32.2
0°-40°	1079.3	51.2
0°-60°	1784.0	84.6
0°-90°	2108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	911	910	907	902	899	86
15°	858	860	858	854	848	242
25°	762	768	772	766	759	349
35°	613	621	650	653	651	384
45°	475	483	498	521	524	366
55°	332	338	354	374	385	297
65°	195	200	212	227	240	193
75°	78	82	88	92	98	85
85°	12	12	12	12	12	17
90°	0	0	0	0	0	



TEST NUMBER: P555118

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-93-97-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	911.7	911.7	911.7	911.7	911.7
2.5°	914.1	914.5	912.4	906.8	903.2
5°	910.6	910.3	906.8	901.8	899.0
7.5°	900.4	901.1	900.1	893.1	889.2
10°	890.6	891.0	888.2	882.6	878.0
12.5°	878.0	877.7	873.8	871.0	863.7
15°	858.1	860.2	858.1	854.2	848.3
17.5°	838.8	838.8	840.2	833.6	829.0
20°	817.1	818.1	818.1	812.9	807.6
22.5°	791.9	795.0	796.1	790.5	784.2
25°	762.1	768.1	771.6	766.0	759.3
27.5°	726.0	735.1	745.6	741.4	734.1
30°	685.8	699.1	716.6	713.1	707.8
32.5°	647.6	660.9	685.1	683.7	680.9
35°	612.9	621.3	649.7	653.2	650.7
37.5°	580.0	587.7	614.3	622.4	620.3
40°	545.3	553.7	574.7	589.1	589.8
42.5°	511.0	519.0	536.2	556.9	556.9
45°	474.6	482.6	498.4	521.1	523.9
47.5°	438.8	447.2	462.7	485.4	490.0
50°	403.8	411.5	426.9	449.0	456.0
52.5°	367.4	375.8	390.9	411.2	421.3
55°	332.4	338.0	354.4	374.0	384.9
57.5°	295.9	301.2	319.8	336.6	347.8
60°	260.9	267.6	281.9	299.1	312.1
62.5°	227.3	234.3	246.6	261.6	276.3
65°	194.7	200.0	211.9	227.0	239.9
67.5°	163.2	167.8	179.7	190.2	203.8
70°	131.3	137.3	146.0	156.2	165.0
72.5°	105.8	108.2	115.6	122.9	132.0
75°	78.1	82.3	88.3	92.5	97.7
77.5°	56.0	58.5	62.0	65.5	70.4
80°	37.5	38.5	41.7	42.4	46.2
82.5°	22.8	23.5	24.2	24.5	25.9
85°	12.3	12.3	12.3	11.6	11.6
87.5°	7.0	7.0	6.0	4.9	3.5
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)