

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: P555084

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-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: P555084
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-81-96-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 5000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

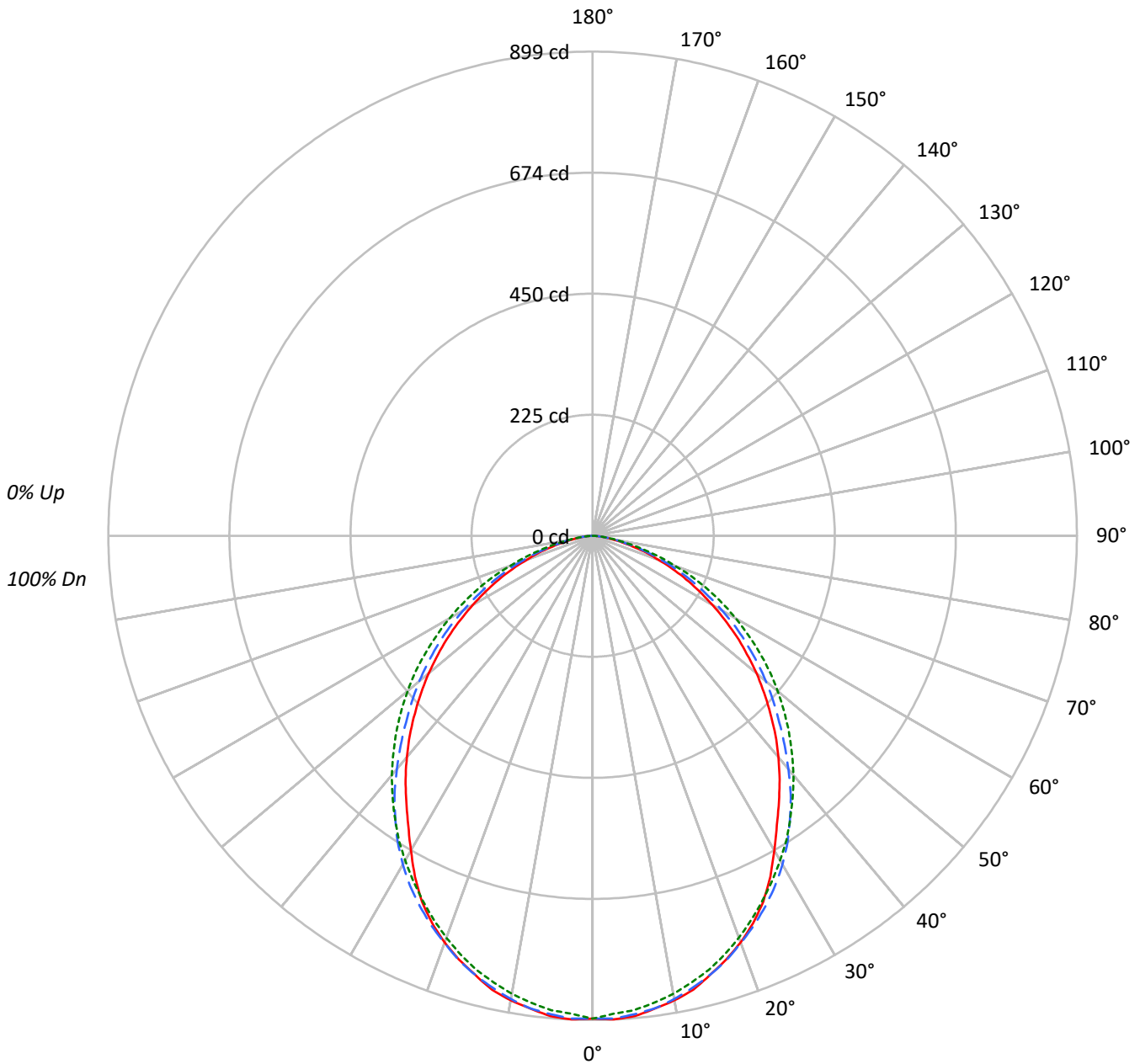
Lumens per Lamp: N/A
Luminaire Lumens: 2073.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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: P555084

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-81-96-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555084

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-81-96-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°	4825	4825	4825
5°	4838	4817	4776
10°	4787	4773	4719
15°	4701	4701	4648
20°	4602	4608	4549
25°	4451	4506	4434
30°	4191	4379	4326
35°	3960	4198	4204
40°	3768	3971	4075
45°	3552	3730	3921
50°	3325	3515	3754
55°	3067	3271	3552
60°	2762	2985	3303
65°	2439	2654	3004
70°	2033	2260	2552
75°	1597	1805	1998
80°	1144	1271	1410
85°	747	747	704



TEST NUMBER: P555084

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-81-96-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	4.1
10°-20°	237.1	11.4
20°-30°	346.5	16.7
30°-40°	393.3	19.0
40°-50°	379.7	18.3
50°-60°	313.2	15.1
60°-70°	208.6	10.1
70°-80°	93.3	4.5
80°-90°	16.7	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°	668.1	32.2
0°-40°	1061.4	51.2
0°-60°	1754.4	84.6
0°-90°	2073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2073.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	896	895	892	887	884	85
15°	844	846	844	840	834	238
25°	750	755	759	753	747	343
35°	603	611	639	642	640	378
45°	467	475	490	512	515	360
55°	327	332	349	368	378	292
65°	192	197	208	223	236	190
75°	77	81	87	91	96	84
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



TEST NUMBER: P555084

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-81-96-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	896.5	896.5	896.5	896.5	896.5
2.5°	898.9	899.3	897.2	891.7	888.3
5°	895.5	895.1	891.7	886.9	884.1
7.5°	885.5	886.2	885.2	878.3	874.5
10°	875.9	876.2	873.4	867.9	863.5
12.5°	863.5	863.1	859.3	856.6	849.3
15°	843.8	845.9	843.8	840.0	834.2
17.5°	824.9	824.9	826.3	819.7	815.2
20°	803.5	804.6	804.6	799.4	794.2
22.5°	778.7	781.8	782.9	777.4	771.2
25°	749.5	755.3	758.8	753.2	746.7
27.5°	714.0	722.9	733.3	729.1	721.9
30°	674.4	687.5	704.7	701.2	696.1
32.5°	636.8	649.9	673.7	672.3	669.5
35°	602.7	611.0	638.9	642.3	639.9
37.5°	570.4	577.9	604.1	612.0	610.0
40°	536.3	544.5	565.2	579.3	580.0
42.5°	502.5	510.4	527.3	547.6	547.6
45°	466.7	474.6	490.1	512.5	515.2
47.5°	431.6	439.8	455.0	477.4	481.8
50°	397.1	404.7	419.8	441.5	448.4
52.5°	361.3	369.6	384.4	404.3	414.3
55°	326.9	332.4	348.6	367.8	378.5
57.5°	291.0	296.2	314.5	331.0	342.0
60°	256.6	263.1	277.3	294.1	306.9
62.5°	223.5	230.4	242.5	257.3	271.7
65°	191.5	196.7	208.4	223.2	235.9
67.5°	160.5	165.0	176.7	187.0	200.5
70°	129.2	135.0	143.6	153.6	162.2
72.5°	104.0	106.4	113.7	120.9	129.8
75°	76.8	80.9	86.8	90.9	96.1
77.5°	55.1	57.5	61.0	64.4	69.2
80°	36.9	37.9	41.0	41.7	45.5
82.5°	22.4	23.1	23.8	24.1	25.5
85°	12.1	12.1	12.1	11.4	11.4
87.5°	6.9	6.9	5.9	4.8	3.4
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)