

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: P555049

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-93-88-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: P555049
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-40-UNV-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

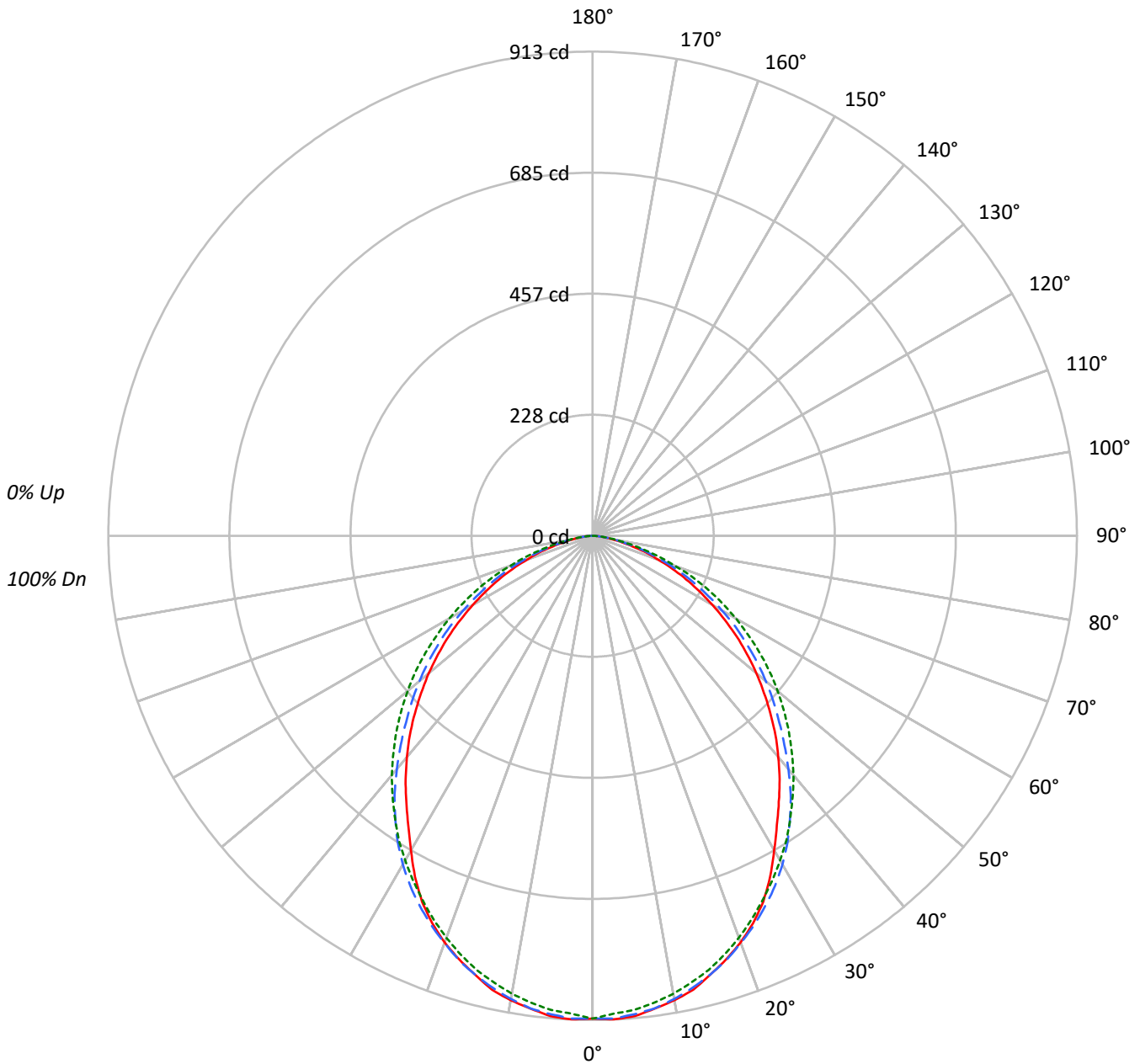
Lumens per Lamp: N/A
Luminaire Lumens: 2105.0 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555049

CATALOG NUMBER: FUSL-12-2-LD4-2LO-40-UNV-93-88-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555049

CATALOG NUMBER: FUSL-12-2-LD4-2LO-40-UNV-93-88-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°	4900	4900	4900
5°	4913	4892	4850
10°	4861	4847	4792
15°	4774	4774	4720
20°	4673	4679	4619
25°	4519	4575	4502
30°	4256	4447	4392
35°	4021	4263	4269
40°	3825	4032	4138
45°	3607	3788	3982
50°	3376	3569	3813
55°	3114	3321	3607
60°	2805	3030	3354
65°	2477	2695	3051
70°	2065	2294	2592
75°	1622	1832	2030
80°	1159	1289	1432
85°	753	753	710



TEST NUMBER: P555049

CATALOG NUMBER: FUSL-12-2-LD4-2LO-40-UNV-93-88-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	4.1
10°-20°	240.8	11.4
20°-30°	351.9	16.7
30°-40°	399.4	19.0
40°-50°	385.6	18.3
50°-60°	318.1	15.1
60°-70°	211.8	10.1
70°-80°	94.8	4.5
80°-90°	16.9	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°	678.4	32.2
0°-40°	1077.8	51.2
0°-60°	1781.5	84.6
0°-90°	2105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2105.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	909	909	906	901	898	86
15°	857	859	857	853	847	242
25°	761	767	770	765	758	349
35°	612	620	649	652	650	383
45°	474	482	498	520	523	366
55°	332	338	354	374	384	296
65°	194	200	212	227	240	193
75°	78	82	88	92	98	85
85°	12	12	12	12	12	16
90°	0	0	0	0	0	



TEST NUMBER: P555049

CATALOG NUMBER: FUSL-12-2-LD4-2LO-40-UNV-93-88-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.4	910.4	910.4	910.4	910.4
2.5°	912.8	913.2	911.1	905.5	902.0
5°	909.3	909.0	905.5	900.6	897.8
7.5°	899.2	899.9	898.8	891.8	888.0
10°	889.4	889.7	886.9	881.3	876.8
12.5°	876.8	876.4	872.6	869.8	862.4
15°	856.8	858.9	856.8	853.0	847.1
17.5°	837.6	837.6	839.0	832.4	827.8
20°	815.9	817.0	817.0	811.7	806.5
22.5°	790.7	793.9	794.9	789.4	783.1
25°	761.0	767.0	770.5	764.9	758.2
27.5°	725.0	734.1	744.6	740.4	733.0
30°	684.8	698.1	715.6	712.1	706.8
32.5°	646.7	659.9	684.1	682.7	679.9
35°	612.0	620.4	648.8	652.3	649.8
37.5°	579.2	586.9	613.4	621.5	619.4
40°	544.5	552.9	573.9	588.3	589.0
42.5°	510.3	518.3	535.4	556.1	556.1
45°	473.9	481.9	497.7	520.4	523.2
47.5°	438.2	446.6	462.0	484.7	489.3
50°	403.2	410.9	426.3	448.4	455.4
52.5°	366.9	375.3	390.3	410.6	420.7
55°	331.9	337.5	353.9	373.5	384.4
57.5°	295.5	300.8	319.3	336.1	347.3
60°	260.6	267.2	281.5	298.7	311.6
62.5°	227.0	234.0	246.2	261.3	275.9
65°	194.5	199.7	211.6	226.6	239.6
67.5°	163.0	167.5	179.4	189.9	203.5
70°	131.2	137.1	145.8	156.0	164.7
72.5°	105.6	108.1	115.4	122.8	131.8
75°	78.0	82.2	88.1	92.3	97.6
77.5°	56.0	58.4	61.9	65.4	70.3
80°	37.4	38.5	41.6	42.3	46.2
82.5°	22.7	23.4	24.1	24.5	25.9
85°	12.2	12.2	12.2	11.5	11.5
87.5°	7.0	7.0	5.9	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)