

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: P555043

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-93-85-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: P555043
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-93-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

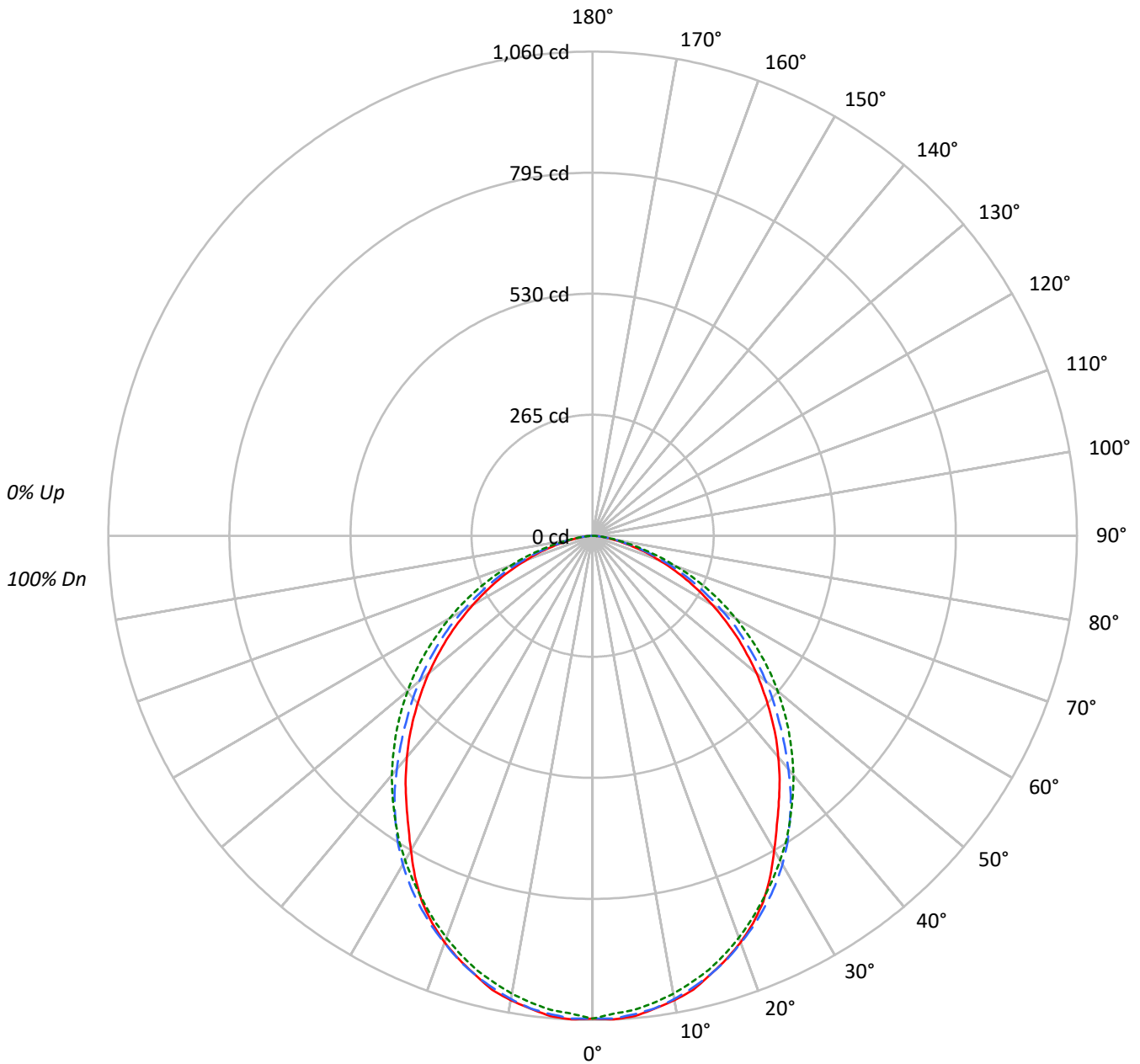
Lumens per Lamp: N/A
Luminaire Lumens: 2444.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555043

CATALOG NUMBER: FUSL-12-2-LD4-2LO-40-UNV-93-85-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555043

CATALOG NUMBER: FUSL-12-2-LD4-2LO-40-UNV-93-85-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°	5689	5689	5689
5°	5703	5680	5631
10°	5643	5628	5563
15°	5543	5543	5480
20°	5426	5432	5363
25°	5247	5312	5228
30°	4941	5163	5100
35°	4669	4949	4957
40°	4442	4681	4804
45°	4188	4398	4624
50°	3920	4145	4427
55°	3615	3856	4188
60°	3256	3519	3894
65°	2876	3129	3542
70°	2397	2664	3010
75°	1884	2127	2356
80°	1345	1497	1661
85°	877	877	827



TEST NUMBER: P555043

CATALOG NUMBER: FUSL-12-2-LD4-2LO-40-UNV-93-85-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	4.1
10°-20°	279.6	11.4
20°-30°	408.5	16.7
30°-40°	463.7	19.0
40°-50°	447.7	18.3
50°-60°	369.3	15.1
60°-70°	245.9	10.1
70°-80°	110.0	4.5
80°-90°	19.7	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°	787.6	32.2
0°-40°	1251.4	51.2
0°-60°	2068.3	84.6
0°-90°	2444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1056	1055	1051	1046	1042	100
15°	995	997	995	990	984	280
25°	884	890	894	888	880	405
35°	711	720	753	757	754	445
45°	550	560	578	604	608	425
55°	385	392	411	434	446	344
65°	226	232	246	263	278	224
75°	91	95	102	107	113	99
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



TEST NUMBER: P555043

CATALOG NUMBER: FUSL-12-2-LD4-2LO-40-UNV-93-85-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1057.0	1057.0	1057.0	1057.0	1057.0
2.5°	1059.8	1060.2	1057.8	1051.3	1047.2
5°	1055.7	1055.3	1051.3	1045.6	1042.3
7.5°	1044.0	1044.8	1043.6	1035.4	1031.0
10°	1032.6	1033.0	1029.8	1023.3	1018.0
12.5°	1018.0	1017.6	1013.1	1009.9	1001.3
15°	994.8	997.3	994.8	990.4	983.5
17.5°	972.5	972.5	974.1	966.4	961.1
20°	947.3	948.5	948.5	942.5	936.4
22.5°	918.1	921.7	923.0	916.5	909.2
25°	883.6	890.5	894.5	888.0	880.3
27.5°	841.8	852.3	864.5	859.6	851.1
30°	795.1	810.5	830.8	826.7	820.6
32.5°	750.8	766.2	794.2	792.6	789.4
35°	710.6	720.3	753.2	757.3	754.5
37.5°	672.4	681.4	712.2	721.6	719.1
40°	632.2	642.0	666.3	683.0	683.8
42.5°	592.4	601.8	621.7	645.6	645.6
45°	550.2	559.5	577.8	604.2	607.5
47.5°	508.8	518.5	536.4	562.8	568.1
50°	468.2	477.1	495.0	520.6	528.7
52.5°	426.0	435.7	453.2	476.7	488.5
55°	385.3	391.8	410.9	433.7	446.3
57.5°	343.1	349.2	370.7	390.2	403.2
60°	302.5	310.2	326.9	346.8	361.8
62.5°	263.5	271.7	285.9	303.3	320.4
65°	225.8	231.9	245.7	263.1	278.1
67.5°	189.2	194.5	208.3	220.5	236.3
70°	152.3	159.2	169.3	181.1	191.3
72.5°	122.6	125.5	134.0	142.5	153.1
75°	90.6	95.4	102.3	107.2	113.3
77.5°	65.0	67.8	71.9	75.9	81.6
80°	43.4	44.7	48.3	49.1	53.6
82.5°	26.4	27.2	28.0	28.4	30.0
85°	14.2	14.2	14.2	13.4	13.4
87.5°	8.1	8.1	6.9	5.7	4.1
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)