

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: P553913

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-80-88-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: P553913
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-LD4-1HI-35-UNV-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

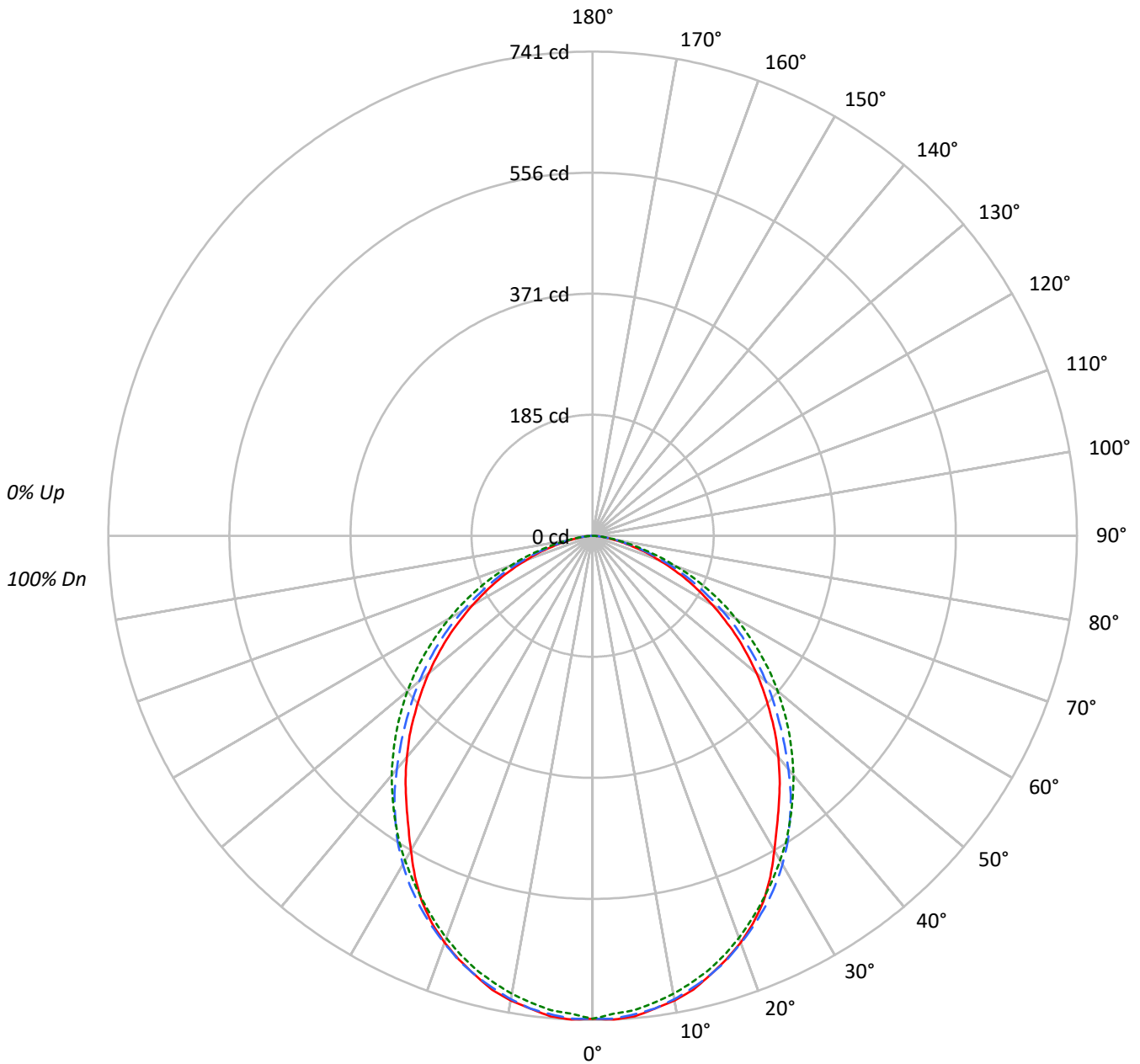
Lumens per Lamp: N/A
Luminaire Lumens: 1709.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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: P553913

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-80-88-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P553913

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-80-88-EDD

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°	3978	3978	3978
5°	3988	3971	3938
10°	3946	3935	3890
15°	3876	3876	3832
20°	3794	3799	3750
25°	3669	3714	3656
30°	3455	3610	3566
35°	3265	3461	3466
40°	3106	3273	3360
45°	2928	3075	3233
50°	2741	2898	3095
55°	2529	2696	2928
60°	2277	2461	2723
65°	2011	2188	2477
70°	1676	1863	2104
75°	1316	1489	1647
80°	942	1048	1162
85°	611	611	580



TEST NUMBER: P553913

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-80-88-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	4.1
10°-20°	195.5	11.4
20°-30°	285.7	16.7
30°-40°	324.3	19.0
40°-50°	313.0	18.3
50°-60°	258.2	15.1
60°-70°	172.0	10.1
70°-80°	77.0	4.5
80°-90°	13.8	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°	550.8	32.2
0°-40°	875.0	51.2
0°-60°	1446.3	84.6
0°-90°	1709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	738	738	735	731	729	70
15°	696	697	696	692	688	196
25°	618	623	626	621	616	283
35°	497	504	527	530	528	311
45°	385	391	404	422	425	297
55°	270	274	287	303	312	241
65°	158	162	172	184	194	157
75°	63	67	72	75	79	69
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



TEST NUMBER: P553913

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-80-88-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	739.1	739.1	739.1	739.1	739.1
2.5°	741.1	741.4	739.7	735.1	732.3
5°	738.2	738.0	735.1	731.1	728.9
7.5°	730.0	730.6	729.7	724.0	720.9
10°	722.1	722.3	720.1	715.5	711.8
12.5°	711.8	711.6	708.4	706.2	700.2
15°	695.7	697.4	695.7	692.5	687.7
17.5°	680.0	680.0	681.2	675.8	672.1
20°	662.4	663.3	663.3	659.0	654.8
22.5°	642.0	644.5	645.4	640.9	635.7
25°	617.9	622.7	625.5	621.0	615.6
27.5°	588.6	596.0	604.5	601.1	595.1
30°	556.0	566.7	580.9	578.1	573.8
32.5°	525.0	535.8	555.4	554.3	552.0
35°	496.9	503.7	526.7	529.5	527.6
37.5°	470.2	476.5	498.0	504.6	502.9
40°	442.1	448.9	465.9	477.6	478.2
42.5°	414.3	420.8	434.7	451.5	451.5
45°	384.7	391.3	404.0	422.5	424.8
47.5°	355.8	362.6	375.1	393.5	397.2
50°	327.4	333.6	346.1	364.0	369.7
52.5°	297.9	304.7	316.9	333.3	341.6
55°	269.5	274.0	287.3	303.2	312.1
57.5°	239.9	244.2	259.2	272.9	282.0
60°	211.5	216.9	228.6	242.5	253.0
62.5°	184.3	190.0	199.9	212.1	224.0
65°	157.9	162.1	171.8	184.0	194.5
67.5°	132.3	136.0	145.7	154.2	165.3
70°	106.5	111.3	118.4	126.6	133.7
72.5°	85.8	87.7	93.7	99.7	107.0
75°	63.3	66.7	71.6	75.0	79.2
77.5°	45.4	47.4	50.3	53.1	57.1
80°	30.4	31.2	33.8	34.4	37.5
82.5°	18.5	19.0	19.6	19.9	21.0
85°	9.9	9.9	9.9	9.4	9.4
87.5°	5.7	5.7	4.8	4.0	2.8
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)