

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: P557691

Luminaire Tested: **FUSL-12-4-LD4-3HI-30-UNV-80-94-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: P557691
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-12-4-LD4-3HI-30-UNV-80-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

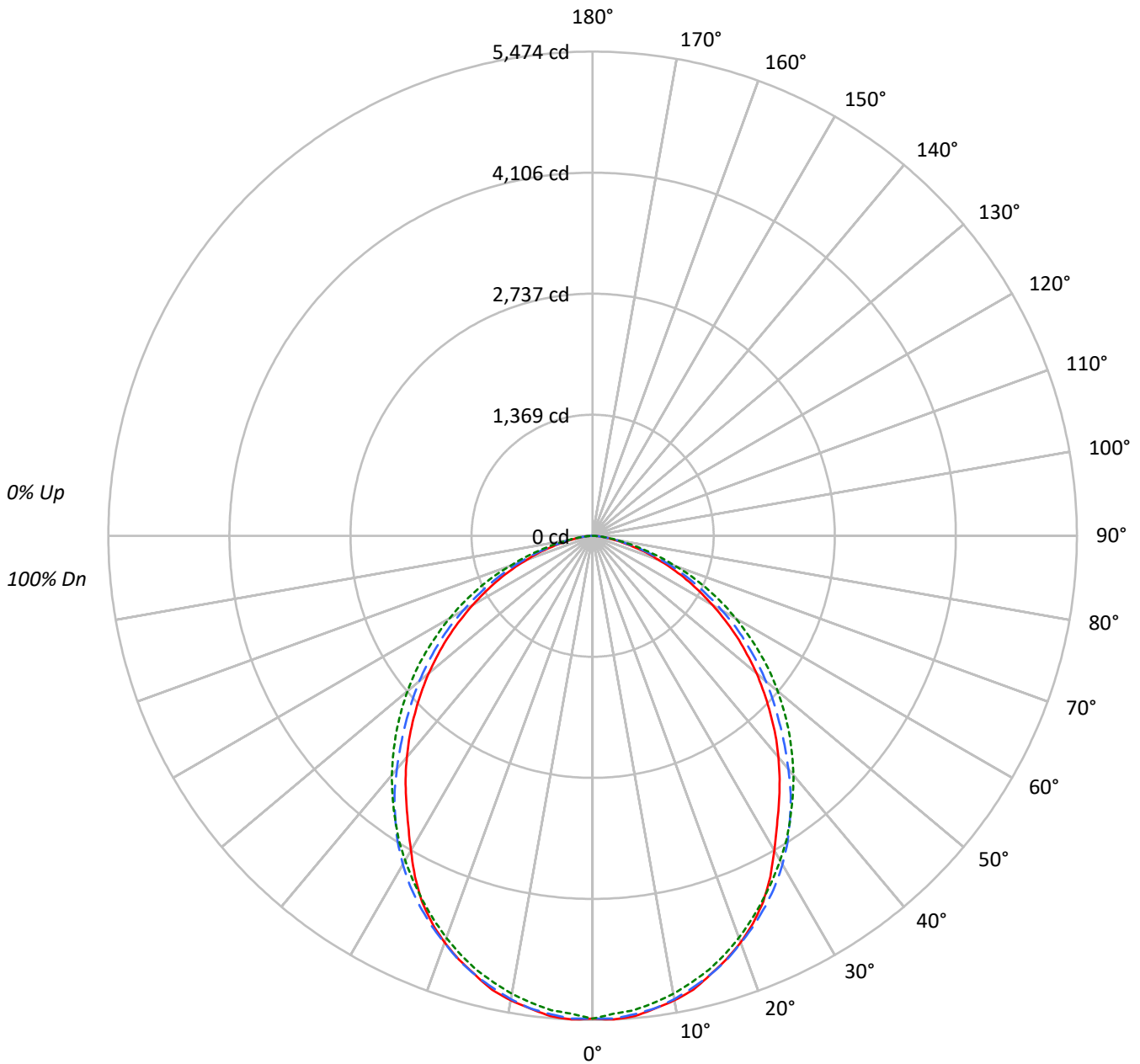
Lumens per Lamp: N/A
Luminaire Lumens: 12623.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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: P557691

CATALOG NUMBER: FUSL-12-4-LD4-3HI-30-UNV-80-94-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P557691

CATALOG NUMBER: FUSL-12-4-LD4-3HI-30-UNV-80-94-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°	14690	14690	14690
5°	14729	14667	14542
10°	14573	14533	14367
15°	14315	14315	14151
20°	14012	14030	13849
25°	13550	13718	13500
30°	12760	13333	13170
35°	12057	12780	12801
40°	11471	12090	12407
45°	10815	11357	11940
50°	10123	10703	11431
55°	9338	9957	10814
60°	8409	9086	10057
65°	7425	8079	9147
70°	6188	6881	7772
75°	4863	5495	6083
80°	3477	3868	4289
85°	2266	2266	2137



TEST NUMBER: P557691

CATALOG NUMBER: FUSL-12-4-LD4-3HI-30-UNV-80-94-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.0	4.1
10°-20°	1443.9	11.4
20°-30°	2110.1	16.7
30°-40°	2395.2	19.0
40°-50°	2312.2	18.3
50°-60°	1907.4	15.1
60°-70°	1270.2	10.1
70°-80°	568.4	4.5
80°-90°	101.7	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°	4068.0	32.2
0°-40°	6463.2	51.2
0°-60°	10682.8	84.6
0°-90°	12623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12623.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5459	5459	5459	5459	5459	
5°	5453	5451	5430	5400	5384	516
15°	5138	5151	5138	5115	5080	1449
25°	4564	4599	4620	4587	4547	2090
35°	3670	3720	3890	3911	3897	2300
45°	2842	2890	2984	3121	3138	2193
55°	1990	2024	2122	2240	2305	1776
65°	1166	1198	1269	1359	1437	1156
75°	468	493	528	554	585	511
85°	73	73	73	69	69	99
90°	0	0	0	0	0	



TEST NUMBER: P557691

CATALOG NUMBER: FUSL-12-4-LD4-3HI-30-UNV-80-94-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5459.1	5459.1	5459.1	5459.1	5459.1
2.5°	5473.8	5475.9	5463.3	5429.8	5408.8
5°	5452.8	5450.7	5429.8	5400.4	5383.6
7.5°	5392.0	5396.2	5389.9	5348.0	5324.9
10°	5333.3	5335.4	5318.6	5285.1	5257.8
12.5°	5257.8	5255.7	5232.6	5215.8	5171.8
15°	5138.2	5150.8	5138.2	5115.2	5079.5
17.5°	5022.9	5022.9	5031.3	4991.4	4964.2
20°	4892.9	4899.2	4899.2	4867.7	4836.2
22.5°	4741.9	4760.7	4767.0	4733.5	4695.7
25°	4563.6	4599.3	4620.2	4586.7	4546.8
27.5°	4347.6	4402.1	4465.0	4439.9	4395.8
30°	4106.4	4186.1	4291.0	4270.0	4238.5
32.5°	3877.8	3957.5	4102.2	4093.8	4077.0
35°	3670.2	3720.5	3890.4	3911.4	3896.7
37.5°	3473.0	3519.2	3678.6	3726.8	3714.2
40°	3265.4	3315.7	3441.6	3527.6	3531.8
42.5°	3059.9	3108.1	3210.9	3334.6	3334.6
45°	2841.8	2890.0	2984.4	3120.7	3137.5
47.5°	2627.8	2678.2	2770.5	2906.8	2934.0
50°	2418.1	2464.3	2556.5	2688.7	2730.6
52.5°	2200.0	2250.3	2340.5	2462.2	2523.0
55°	1990.3	2023.8	2122.4	2239.9	2304.9
57.5°	1772.2	1803.6	1914.8	2015.4	2082.6
60°	1562.4	1602.3	1688.3	1791.0	1868.6
62.5°	1361.1	1403.1	1476.5	1566.6	1654.7
65°	1166.1	1197.5	1268.8	1359.0	1436.6
67.5°	977.3	1004.6	1075.9	1138.8	1220.6
70°	786.5	822.1	874.6	935.4	987.8
72.5°	633.4	648.0	692.1	736.1	790.7
75°	467.7	492.9	528.5	553.7	585.1
77.5°	335.6	350.2	371.2	392.2	421.5
80°	224.4	230.7	249.6	253.8	276.8
82.5°	136.3	140.5	144.7	146.8	155.2
85°	73.4	73.4	73.4	69.2	69.2
87.5°	41.9	41.9	35.7	29.4	21.0
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)