

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: P554197

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-82-86-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: P554197
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-LD4-1LO-35-UNV-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

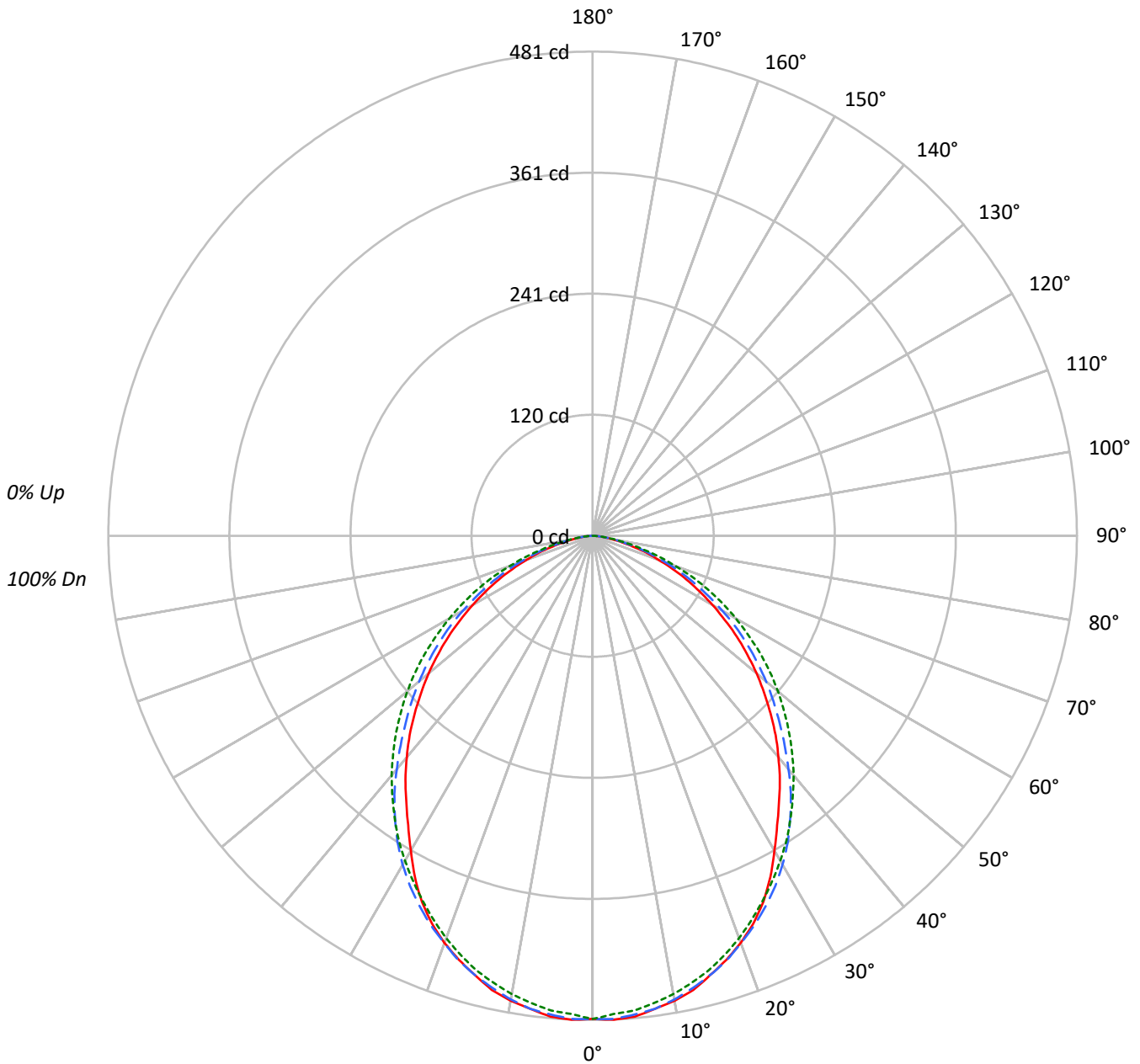
Lumens per Lamp: N/A
Luminaire Lumens: 1110.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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: P554197

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-86-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554197

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-86-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°	2583	2583	2583
5°	2591	2580	2558
10°	2563	2556	2526
15°	2517	2517	2489
20°	2464	2467	2436
25°	2383	2413	2374
30°	2244	2345	2316
35°	2120	2248	2252
40°	2017	2126	2182
45°	1902	1997	2100
50°	1780	1882	2010
55°	1642	1751	1902
60°	1479	1598	1769
65°	1305	1421	1608
70°	1089	1210	1367
75°	855	967	1071
80°	611	679	753
85°	401	401	377



TEST NUMBER: P554197

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-86-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	4.1
10°-20°	127.0	11.4
20°-30°	185.5	16.7
30°-40°	210.6	19.0
40°-50°	203.3	18.3
50°-60°	167.7	15.1
60°-70°	111.7	10.1
70°-80°	50.0	4.5
80°-90°	8.9	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°	357.7	32.2
0°-40°	568.3	51.2
0°-60°	939.4	84.6
0°-90°	1110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1110.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	480	480	480	480	480	
5°	480	479	478	475	473	45
15°	452	453	452	450	447	127
25°	401	404	406	403	400	184
35°	323	327	342	344	343	202
45°	250	254	262	274	276	193
55°	175	178	187	197	203	156
65°	102	105	112	120	126	102
75°	41	43	46	49	52	45
85°	6	6	6	6	6	9
90°	0	0	0	0	0	



TEST NUMBER: P554197

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-86-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	480.0	480.0	480.0	480.0	480.0
2.5°	481.3	481.5	480.4	477.5	475.6
5°	479.5	479.3	477.5	474.9	473.4
7.5°	474.1	474.5	474.0	470.3	468.2
10°	469.0	469.2	467.7	464.7	462.3
12.5°	462.3	462.2	460.1	458.7	454.8
15°	451.8	452.9	451.8	449.8	446.7
17.5°	441.7	441.7	442.4	438.9	436.5
20°	430.3	430.8	430.8	428.0	425.3
22.5°	417.0	418.6	419.2	416.2	412.9
25°	401.3	404.4	406.3	403.3	399.8
27.5°	382.3	387.1	392.6	390.4	386.5
30°	361.1	368.1	377.3	375.5	372.7
32.5°	341.0	348.0	360.7	360.0	358.5
35°	322.7	327.2	342.1	343.9	342.7
37.5°	305.4	309.5	323.5	327.7	326.6
40°	287.1	291.6	302.6	310.2	310.6
42.5°	269.1	273.3	282.3	293.2	293.2
45°	249.9	254.1	262.4	274.4	275.9
47.5°	231.1	235.5	243.6	255.6	258.0
50°	212.6	216.7	224.8	236.4	240.1
52.5°	193.5	197.9	205.8	216.5	221.9
55°	175.0	178.0	186.6	197.0	202.7
57.5°	155.8	158.6	168.4	177.2	183.1
60°	137.4	140.9	148.5	157.5	164.3
62.5°	119.7	123.4	129.8	137.8	145.5
65°	102.5	105.3	111.6	119.5	126.3
67.5°	85.9	88.3	94.6	100.1	107.3
70°	69.2	72.3	76.9	82.3	86.9
72.5°	55.7	57.0	60.9	64.7	69.5
75°	41.1	43.3	46.5	48.7	51.5
77.5°	29.5	30.8	32.6	34.5	37.1
80°	19.7	20.3	21.9	22.3	24.3
82.5°	12.0	12.4	12.7	12.9	13.6
85°	6.5	6.5	6.5	6.1	6.1
87.5°	3.7	3.7	3.1	2.6	1.8
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)