

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: P554485

Luminaire Tested: **FUSL-12-2-LD4-1STD-40-UNV-80-86-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: P554485
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-LD4-1STD-40-UNV-80-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

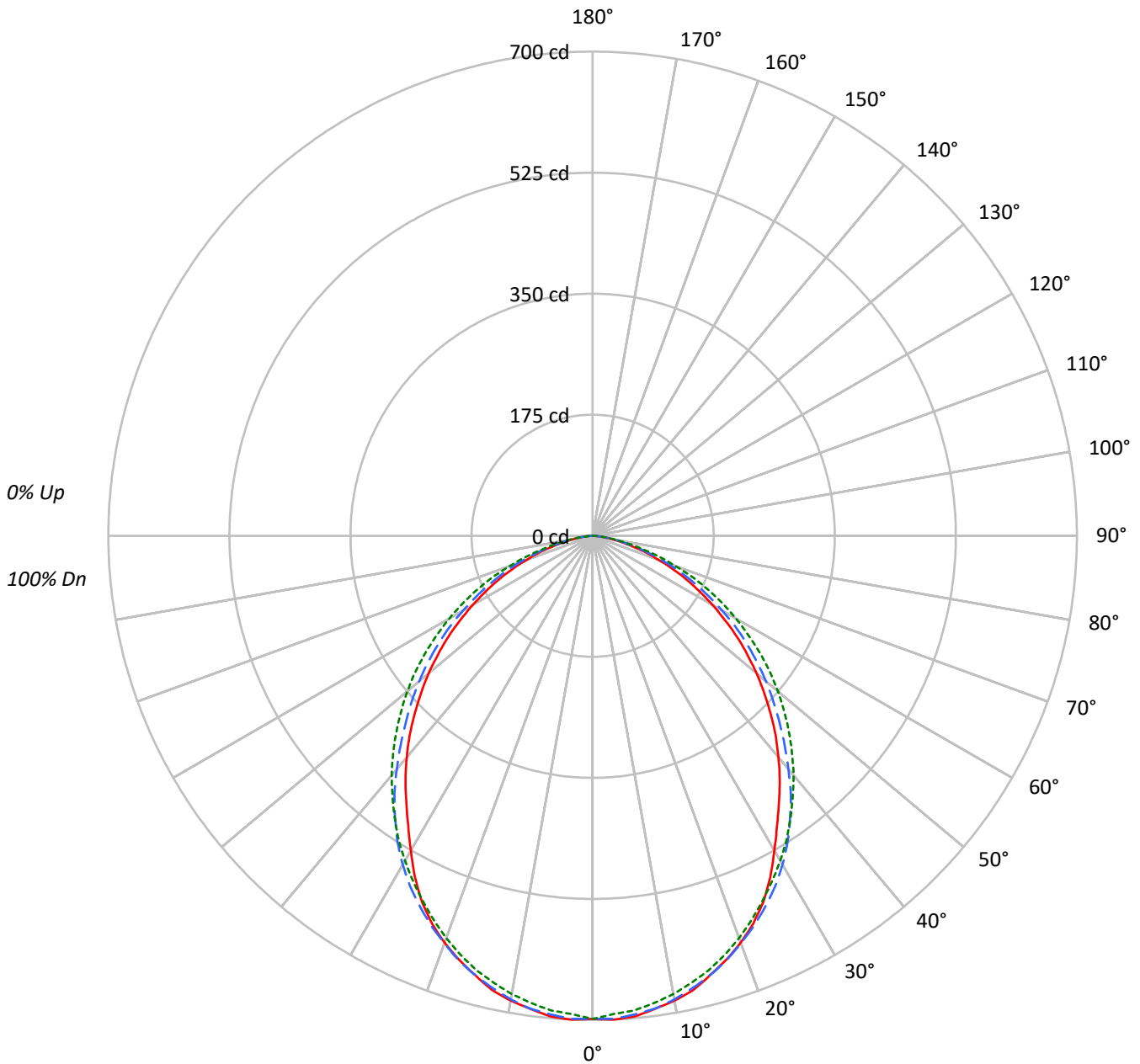
Lumens per Lamp: N/A
Luminaire Lumens: 1615.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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: P554485

CATALOG NUMBER: FUSL-12-2-LD4-1STD-40-UNV-80-86-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554485

CATALOG NUMBER: FUSL-12-2-LD4-1STD-40-UNV-80-86-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°	3759	3759	3759
5°	3769	3753	3721
10°	3729	3719	3676
15°	3663	3663	3621
20°	3585	3590	3544
25°	3467	3510	3454
30°	3265	3412	3370
35°	3085	3270	3275
40°	2935	3093	3175
45°	2767	2906	3055
50°	2591	2739	2925
55°	2389	2548	2767
60°	2152	2325	2574
65°	1900	2067	2341
70°	1583	1761	1989
75°	1243	1406	1557
80°	890	989	1097
85°	580	580	550



TEST NUMBER: P554485

CATALOG NUMBER: FUSL-12-2-LD4-1STD-40-UNV-80-86-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	4.1
10°-20°	184.7	11.4
20°-30°	270.0	16.7
30°-40°	306.4	19.0
40°-50°	295.8	18.3
50°-60°	244.0	15.1
60°-70°	162.5	10.1
70°-80°	72.7	4.5
80°-90°	13.0	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°	520.5	32.2
0°-40°	826.9	51.2
0°-60°	1366.8	84.6
0°-90°	1615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	698	697	695	691	689	66
15°	657	659	657	654	650	185
25°	584	588	591	587	582	267
35°	470	476	498	500	498	294
45°	364	370	382	399	401	281
55°	255	259	272	287	295	227
65°	149	153	162	174	184	148
75°	60	63	68	71	75	65
85°	9	9	9	9	9	13
90°	0	0	0	0	0	



TEST NUMBER: P554485

CATALOG NUMBER: FUSL-12-2-LD4-1STD-40-UNV-80-86-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	698.4	698.4	698.4	698.4	698.4
2.5°	700.3	700.6	699.0	694.7	692.0
5°	697.6	697.4	694.7	690.9	688.8
7.5°	689.9	690.4	689.6	684.2	681.3
10°	682.3	682.6	680.5	676.2	672.7
12.5°	672.7	672.4	669.5	667.3	661.7
15°	657.4	659.0	657.4	654.4	649.9
17.5°	642.6	642.6	643.7	638.6	635.1
20°	626.0	626.8	626.8	622.8	618.8
22.5°	606.7	609.1	609.9	605.6	600.8
25°	583.9	588.4	591.1	586.8	581.7
27.5°	556.2	563.2	571.3	568.0	562.4
30°	525.4	535.6	549.0	546.3	542.3
32.5°	496.1	506.3	524.8	523.8	521.6
35°	469.6	476.0	497.7	500.4	498.5
37.5°	444.3	450.2	470.6	476.8	475.2
40°	417.8	424.2	440.3	451.3	451.9
42.5°	391.5	397.7	410.8	426.6	426.6
45°	363.6	369.7	381.8	399.3	401.4
47.5°	336.2	342.6	354.5	371.9	375.4
50°	309.4	315.3	327.1	344.0	349.4
52.5°	281.5	287.9	299.4	315.0	322.8
55°	254.6	258.9	271.5	286.6	294.9
57.5°	226.7	230.8	245.0	257.9	266.4
60°	199.9	205.0	216.0	229.1	239.1
62.5°	174.1	179.5	188.9	200.4	211.7
65°	149.2	153.2	162.3	173.9	183.8
67.5°	125.0	128.5	137.6	145.7	156.2
70°	100.6	105.2	111.9	119.7	126.4
72.5°	81.0	82.9	88.5	94.2	101.2
75°	59.8	63.1	67.6	70.8	74.9
77.5°	42.9	44.8	47.5	50.2	53.9
80°	28.7	29.5	31.9	32.5	35.4
82.5°	17.4	18.0	18.5	18.8	19.9
85°	9.4	9.4	9.4	8.9	8.9
87.5°	5.4	5.4	4.6	3.8	2.7
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)