

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: P554586

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-82-94-EDD-90**

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: P554586
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-50-UNV-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

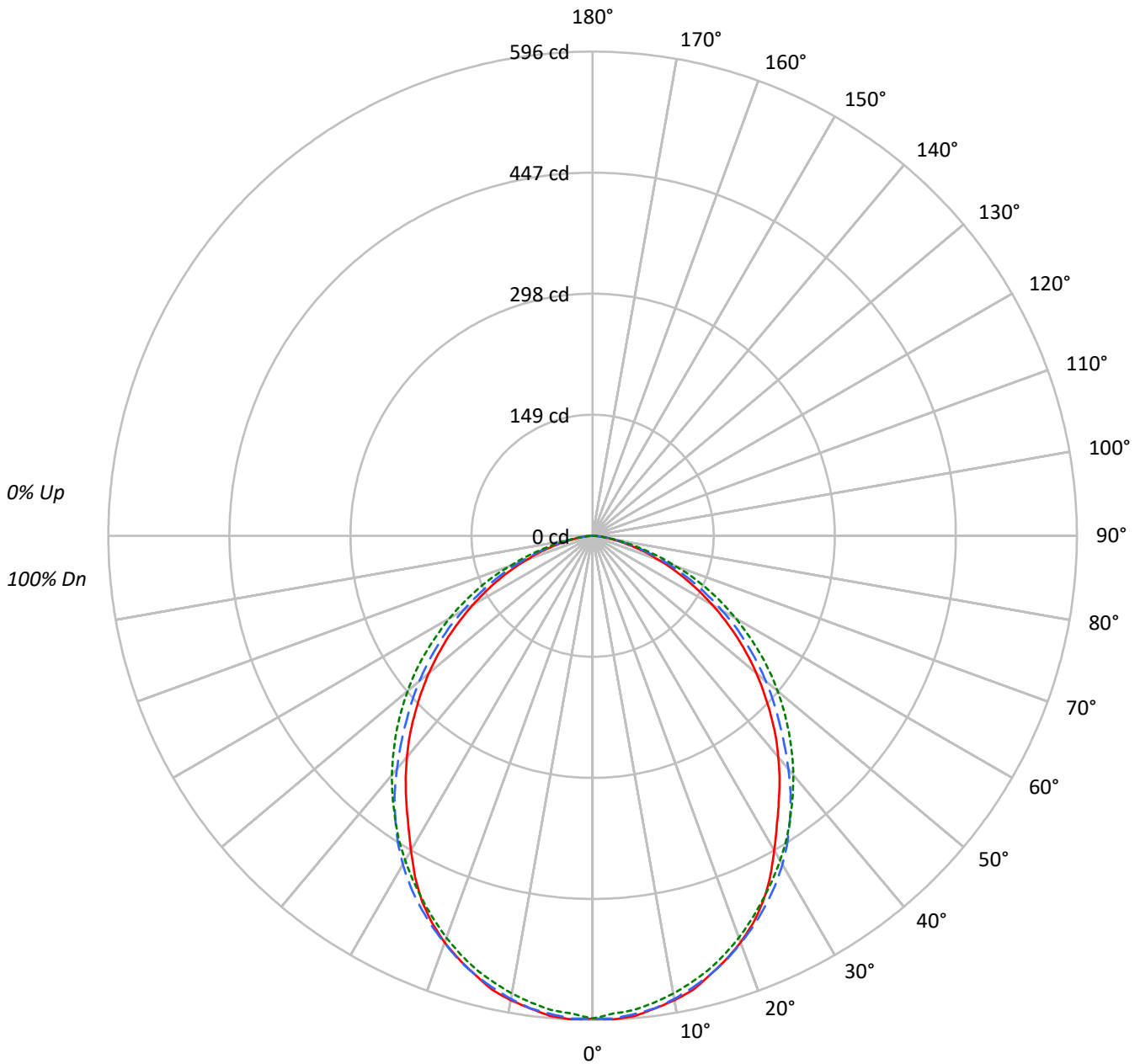
Lumens per Lamp: N/A
Luminaire Lumens: 1374.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (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: P554586

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-82-94-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554586

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-82-94-EDD-90

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°	3198	3198	3198
5°	3206	3193	3166
10°	3172	3164	3128
15°	3116	3116	3081
20°	3050	3054	3015
25°	2950	2986	2939
30°	2778	2903	2867
35°	2625	2782	2786
40°	2497	2632	2701
45°	2354	2472	2599
50°	2204	2330	2488
55°	2032	2168	2354
60°	1831	1978	2189
65°	1616	1759	1992
70°	1347	1498	1692
75°	1058	1196	1325
80°	756	843	933
85°	494	494	463



TEST NUMBER: P554586

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-82-94-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	4.1
10°-20°	157.2	11.4
20°-30°	229.7	16.7
30°-40°	260.7	19.0
40°-50°	251.7	18.3
50°-60°	207.6	15.1
60°-70°	138.3	10.1
70°-80°	61.9	4.5
80°-90°	11.1	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°	442.8	32.2
0°-40°	703.5	51.2
0°-60°	1162.8	84.6
0°-90°	1374.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1374.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	594	594	594	594	594	
5°	594	593	591	588	586	56
15°	559	561	559	557	553	158
25°	497	501	503	499	495	227
35°	400	405	424	426	424	250
45°	309	315	325	340	342	239
55°	217	220	231	244	251	193
65°	127	130	138	148	156	126
75°	51	54	58	60	64	56
85°	8	8	8	8	8	11
90°	0	0	0	0	0	



TEST NUMBER: P554586

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-82-94-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	594.2	594.2	594.2	594.2	594.2
2.5°	595.8	596.0	594.7	591.0	588.7
5°	593.5	593.3	591.0	587.8	586.0
7.5°	586.9	587.4	586.7	582.1	579.6
10°	580.5	580.8	578.9	575.3	572.3
12.5°	572.3	572.1	569.6	567.7	562.9
15°	559.3	560.7	559.3	556.8	552.9
17.5°	546.7	546.7	547.6	543.3	540.3
20°	532.6	533.3	533.3	529.8	526.4
22.5°	516.1	518.2	518.9	515.2	511.1
25°	496.7	500.6	502.9	499.3	494.9
27.5°	473.2	479.2	486.0	483.3	478.5
30°	447.0	455.7	467.1	464.8	461.4
32.5°	422.1	430.8	446.5	445.6	443.8
35°	399.5	405.0	423.5	425.7	424.1
37.5°	378.0	383.1	400.4	405.7	404.3
40°	355.4	360.9	374.6	384.0	384.4
42.5°	333.1	338.3	349.5	363.0	363.0
45°	309.3	314.6	324.8	339.7	341.5
47.5°	286.0	291.5	301.6	316.4	319.4
50°	263.2	268.2	278.3	292.7	297.2
52.5°	239.5	244.9	254.8	268.0	274.6
55°	216.6	220.3	231.0	243.8	250.9
57.5°	192.9	196.3	208.4	219.4	226.7
60°	170.1	174.4	183.8	195.0	203.4
62.5°	148.2	152.7	160.7	170.5	180.1
65°	126.9	130.3	138.1	147.9	156.4
67.5°	106.4	109.3	117.1	124.0	132.9
70°	85.6	89.5	95.2	101.8	107.5
72.5°	68.9	70.5	75.3	80.1	86.1
75°	50.9	53.6	57.5	60.3	63.7
77.5°	36.5	38.1	40.4	42.7	45.9
80°	24.4	25.1	27.2	27.6	30.1
82.5°	14.8	15.3	15.8	16.0	16.9
85°	8.0	8.0	8.0	7.5	7.5
87.5°	4.6	4.6	3.9	3.2	2.3
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)