

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: P553881

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-82-88-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: P553881
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-30-UNV-82-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

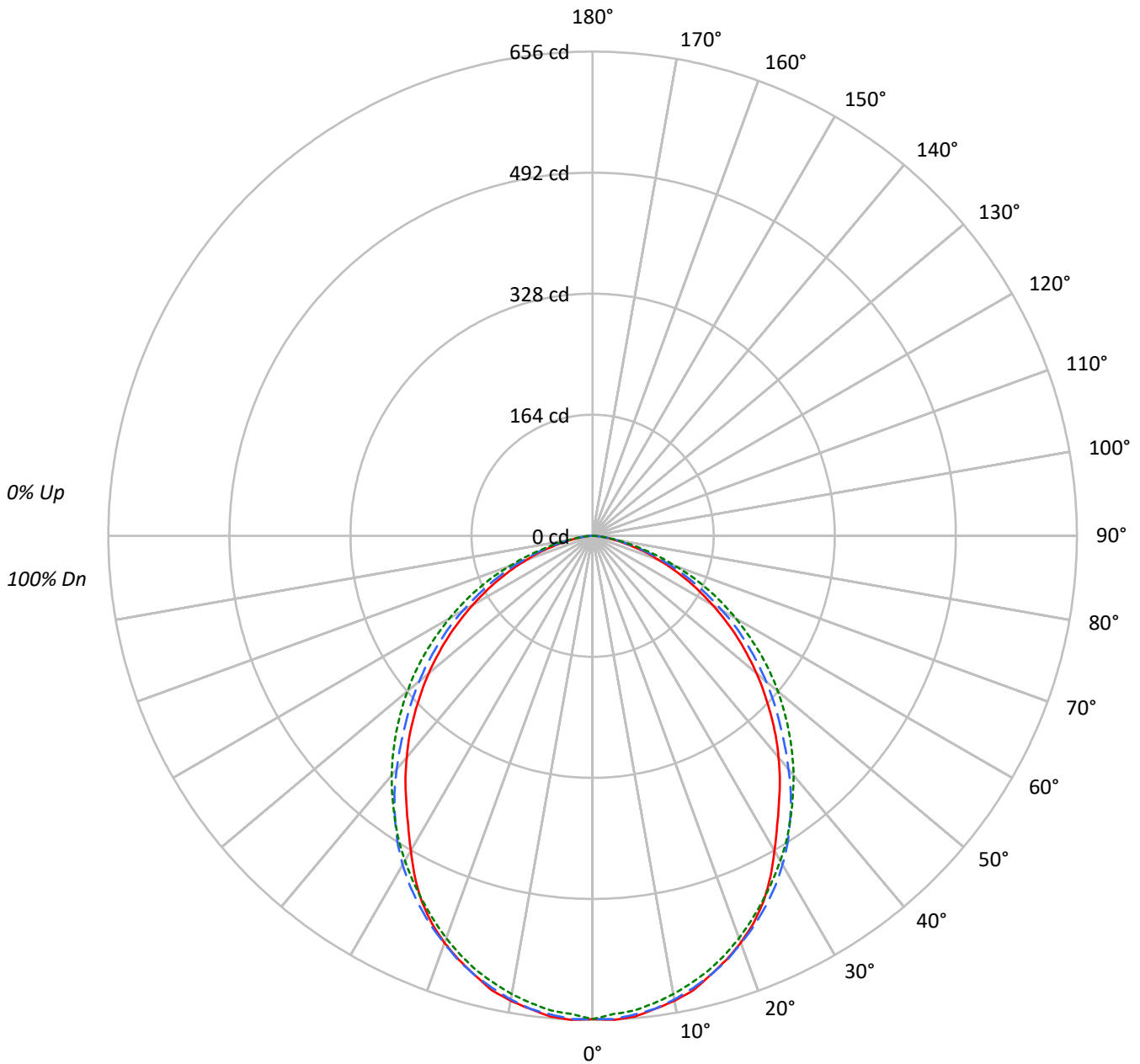
Lumens per Lamp: N/A
Luminaire Lumens: 1514.0 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P553881

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-82-88-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P553881

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-82-88-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°	3524	3524	3524
5°	3533	3518	3488
10°	3496	3486	3446
15°	3434	3434	3394
20°	3361	3365	3322
25°	3251	3290	3238
30°	3061	3199	3159
35°	2892	3066	3071
40°	2752	2900	2976
45°	2594	2724	2864
50°	2428	2567	2742
55°	2240	2389	2594
60°	2017	2180	2412
65°	1782	1938	2194
70°	1484	1651	1865
75°	1167	1318	1460
80°	834	927	1029
85°	543	543	513



TEST NUMBER: P553881

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-82-88-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	4.1
10°-20°	173.2	11.4
20°-30°	253.1	16.7
30°-40°	287.3	19.0
40°-50°	277.3	18.3
50°-60°	228.8	15.1
60°-70°	152.3	10.1
70°-80°	68.2	4.5
80°-90°	12.2	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°	487.9	32.2
0°-40°	775.2	51.2
0°-60°	1281.3	84.6
0°-90°	1514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	654	654	651	648	646	62
15°	616	618	616	614	609	174
25°	547	552	554	550	545	251
35°	440	446	467	469	467	276
45°	341	347	358	374	376	263
55°	239	243	255	269	276	213
65°	140	144	152	163	172	139
75°	56	59	63	66	70	61
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



TEST NUMBER: P553881

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-82-88-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	654.8	654.8	654.8	654.8	654.8
2.5°	656.5	656.8	655.3	651.2	648.7
5°	654.0	653.8	651.2	647.7	645.7
7.5°	646.7	647.2	646.5	641.4	638.7
10°	639.7	639.9	637.9	633.9	630.6
12.5°	630.6	630.4	627.6	625.6	620.3
15°	616.3	617.8	616.3	613.5	609.2
17.5°	602.4	602.4	603.5	598.7	595.4
20°	586.8	587.6	587.6	583.8	580.1
22.5°	568.7	571.0	571.8	567.7	563.2
25°	547.4	551.6	554.1	550.1	545.3
27.5°	521.4	528.0	535.5	532.5	527.2
30°	492.5	502.1	514.7	512.1	508.4
32.5°	465.1	474.7	492.0	491.0	489.0
35°	440.2	446.2	466.6	469.1	467.4
37.5°	416.6	422.1	441.2	447.0	445.5
40°	391.7	397.7	412.8	423.1	423.6
42.5°	367.0	372.8	385.1	400.0	400.0
45°	340.8	346.6	357.9	374.3	376.3
47.5°	315.2	321.2	332.3	348.6	351.9
50°	290.0	295.6	306.6	322.5	327.5
52.5°	263.9	269.9	280.7	295.3	302.6
55°	238.7	242.7	254.6	268.6	276.4
57.5°	212.6	216.3	229.7	241.7	249.8
60°	187.4	192.2	202.5	214.8	224.1
62.5°	163.3	168.3	177.1	187.9	198.5
65°	139.9	143.6	152.2	163.0	172.3
67.5°	117.2	120.5	129.0	136.6	146.4
70°	94.3	98.6	104.9	112.2	118.5
72.5°	76.0	77.7	83.0	88.3	94.8
75°	56.1	59.1	63.4	66.4	70.2
77.5°	40.2	42.0	44.5	47.0	50.6
80°	26.9	27.7	29.9	30.4	33.2
82.5°	16.4	16.9	17.4	17.6	18.6
85°	8.8	8.8	8.8	8.3	8.3
87.5°	5.0	5.0	4.3	3.5	2.5
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)