

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: P553863

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-81-87-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: P553863
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-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

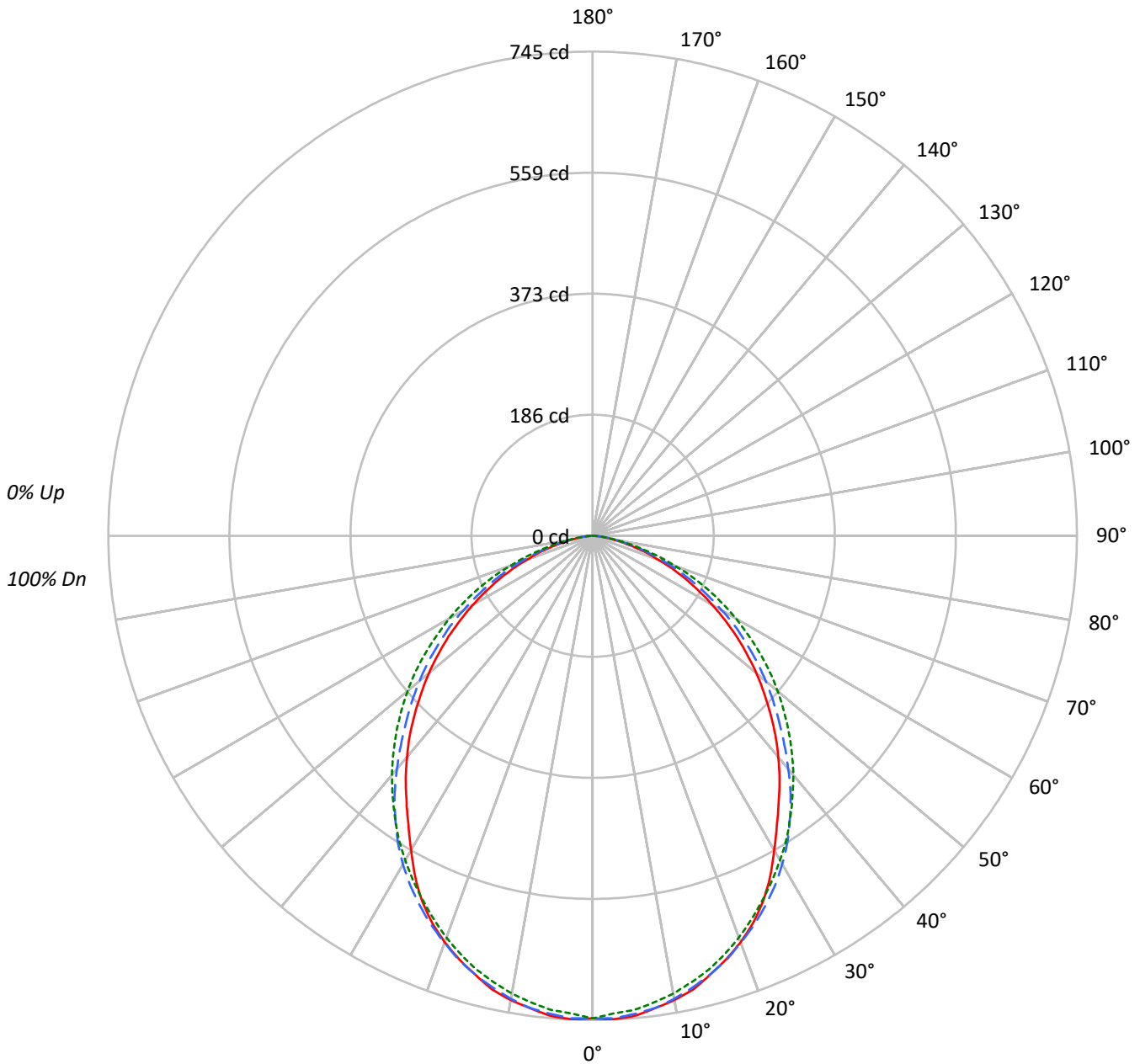
Lumens per Lamp: N/A
Luminaire Lumens: 1717.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P553863

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-81-87-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P553863

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-81-87-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°	3997	3997	3997
5°	4007	3990	3956
10°	3964	3953	3909
15°	3894	3894	3850
20°	3812	3817	3767
25°	3686	3732	3673
30°	3471	3627	3583
35°	3280	3477	3482
40°	3121	3289	3375
45°	2942	3089	3248
50°	2754	2911	3110
55°	2540	2709	2942
60°	2287	2471	2736
65°	2020	2198	2488
70°	1684	1873	2115
75°	1323	1495	1655
80°	945	1051	1168
85°	618	618	580



TEST NUMBER: P553863

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-81-87-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	4.1
10°-20°	196.4	11.4
20°-30°	287.0	16.7
30°-40°	325.8	19.0
40°-50°	314.5	18.3
50°-60°	259.4	15.1
60°-70°	172.8	10.1
70°-80°	77.3	4.5
80°-90°	13.8	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°	553.3	32.2
0°-40°	879.1	51.2
0°-60°	1453.1	84.6
0°-90°	1717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	742	741	739	735	732	70
15°	699	701	699	696	691	197
25°	621	626	628	624	618	284
35°	499	506	529	532	530	313
45°	386	393	406	424	427	298
55°	271	275	289	305	314	242
65°	159	163	173	185	195	157
75°	64	67	72	75	80	70
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



TEST NUMBER: P553863

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-81-87-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.6	742.6	742.6	742.6	742.6
2.5°	744.6	744.8	743.1	738.6	735.7
5°	741.7	741.4	738.6	734.6	732.3
7.5°	733.4	734.0	733.1	727.4	724.3
10°	725.4	725.7	723.4	718.9	715.2
12.5°	715.2	714.9	711.7	709.5	703.5
15°	698.9	700.6	698.9	695.8	690.9
17.5°	683.2	683.2	684.4	678.9	675.2
20°	665.5	666.4	666.4	662.1	657.8
22.5°	645.0	647.6	648.4	643.9	638.7
25°	620.7	625.6	628.5	623.9	618.5
27.5°	591.4	598.8	607.3	603.9	597.9
30°	558.6	569.4	583.7	580.8	576.5
32.5°	527.5	538.3	558.0	556.8	554.6
35°	499.2	506.1	529.2	532.0	530.0
37.5°	472.4	478.7	500.4	506.9	505.2
40°	444.2	451.0	468.1	479.8	480.4
42.5°	416.2	422.8	436.7	453.6	453.6
45°	386.5	393.1	405.9	424.5	426.8
47.5°	357.4	364.3	376.8	395.4	399.1
50°	328.9	335.2	347.7	365.7	371.4
52.5°	299.2	306.1	318.4	334.9	343.2
55°	270.7	275.3	288.7	304.7	313.5
57.5°	241.1	245.3	260.5	274.1	283.3
60°	212.5	217.9	229.6	243.6	254.2
62.5°	185.1	190.8	200.8	213.1	225.1
65°	158.6	162.9	172.6	184.9	195.4
67.5°	132.9	136.6	146.3	154.9	166.0
70°	107.0	111.8	119.0	127.2	134.4
72.5°	86.2	88.1	94.1	100.1	107.5
75°	63.6	67.0	71.9	75.3	79.6
77.5°	45.6	47.6	50.5	53.3	57.3
80°	30.5	31.4	33.9	34.5	37.7
82.5°	18.5	19.1	19.7	20.0	21.1
85°	10.0	10.0	10.0	9.4	9.4
87.5°	5.7	5.7	4.8	4.0	2.9
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)