

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: P554905

Luminaire Tested: **FUSL-12-2-LD4-2LO-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: P554905
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-LD4-2LO-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

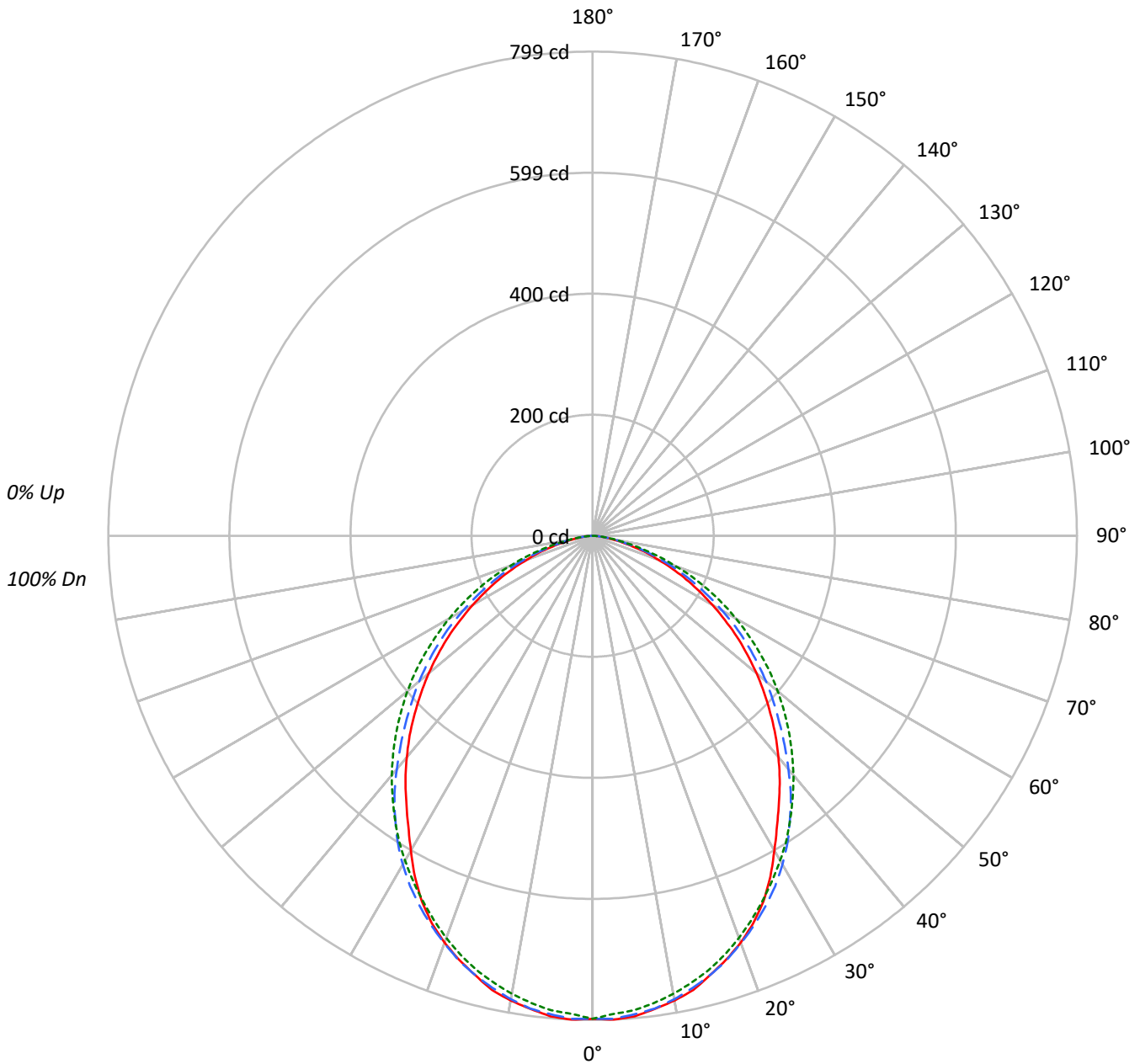
Lumens per Lamp: N/A
Luminaire Lumens: 1843.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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

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Luminous Intensity Polar Plot





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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°	4289	4289	4289
5°	4301	4283	4246
10°	4256	4244	4195
15°	4180	4180	4132
20°	4092	4097	4044
25°	3957	4006	3942
30°	3726	3893	3846
35°	3521	3732	3738
40°	3350	3530	3622
45°	3158	3316	3487
50°	2956	3126	3338
55°	2727	2908	3157
60°	2455	2653	2936
65°	2167	2360	2670
70°	1806	2009	2269
75°	1420	1605	1776
80°	1017	1128	1252
85°	661	661	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	4.1
10°-20°	210.8	11.4
20°-30°	308.1	16.7
30°-40°	349.7	19.0
40°-50°	337.6	18.3
50°-60°	278.5	15.1
60°-70°	185.4	10.1
70°-80°	83.0	4.5
80°-90°	14.8	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°	593.9	32.2
0°-40°	943.6	51.2
0°-60°	1559.7	84.6
0°-90°	1843.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1843.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	797	797	797	797	797	
5°	796	796	793	788	786	75
15°	750	752	750	747	742	211
25°	666	672	675	670	664	305
35°	536	543	568	571	569	336
45°	415	422	436	456	458	320
55°	291	296	310	327	336	259
65°	170	175	185	198	210	169
75°	68	72	77	81	85	75
85°	11	11	11	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	797.0	797.0	797.0	797.0	797.0
2.5°	799.2	799.5	797.7	792.8	789.7
5°	796.1	795.8	792.8	788.5	786.0
7.5°	787.3	787.9	786.9	780.8	777.5
10°	778.7	779.0	776.5	771.6	767.7
12.5°	767.7	767.3	764.0	761.5	755.1
15°	750.2	752.0	750.2	746.8	741.6
17.5°	733.4	733.4	734.6	728.8	724.8
20°	714.4	715.3	715.3	710.7	706.1
22.5°	692.3	695.1	696.0	691.1	685.6
25°	666.3	671.5	674.6	669.7	663.9
27.5°	634.8	642.7	651.9	648.2	641.8
30°	599.5	611.2	626.5	623.4	618.8
32.5°	566.2	577.8	598.9	597.7	595.3
35°	535.9	543.2	568.0	571.1	568.9
37.5°	507.1	513.8	537.1	544.1	542.3
40°	476.8	484.1	502.5	515.0	515.6
42.5°	446.8	453.8	468.8	486.9	486.9
45°	414.9	421.9	435.7	455.6	458.1
47.5°	383.7	391.0	404.5	424.4	428.4
50°	353.1	359.8	373.3	392.6	398.7
52.5°	321.2	328.6	341.7	359.5	368.4
55°	290.6	295.5	309.9	327.0	336.5
57.5°	258.7	263.3	279.6	294.3	304.1
60°	228.1	233.9	246.5	261.5	272.8
62.5°	198.7	204.9	215.6	228.7	241.6
65°	170.2	174.8	185.3	198.4	209.7
67.5°	142.7	146.7	157.1	166.3	178.2
70°	114.8	120.0	127.7	136.6	144.2
72.5°	92.5	94.6	101.0	107.5	115.4
75°	68.3	72.0	77.2	80.8	85.4
77.5°	49.0	51.1	54.2	57.3	61.5
80°	32.8	33.7	36.4	37.1	40.4
82.5°	19.9	20.5	21.1	21.4	22.7
85°	10.7	10.7	10.7	10.1	10.1
87.5°	6.1	6.1	5.2	4.3	3.1
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)