

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: P554074

Luminaire Tested: **FUSL-12-2-LD4-1HI-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: P554074
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-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 LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

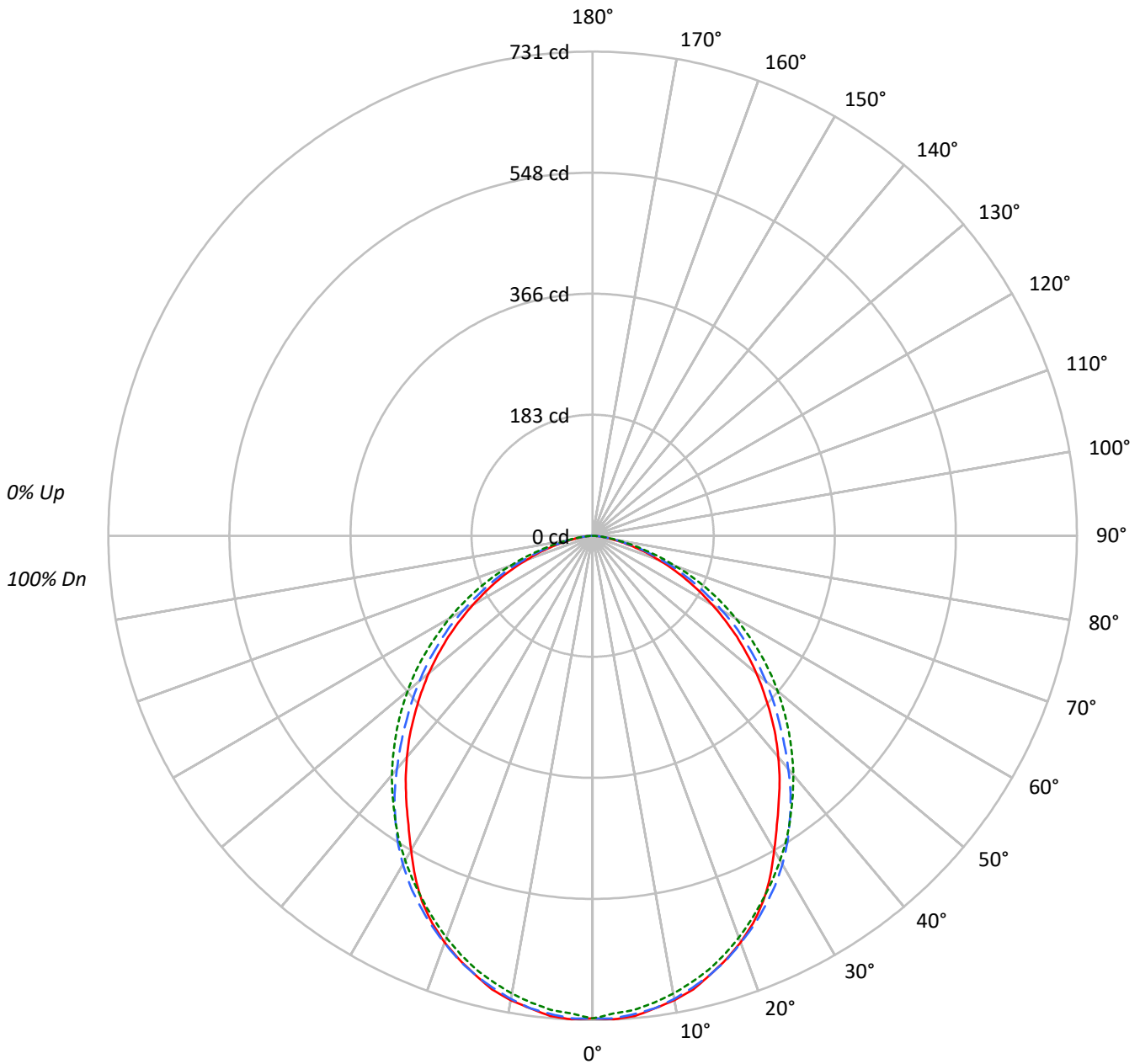
Lumens per Lamp: N/A
Luminaire Lumens: 1685.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (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

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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°	3922	3922	3922
5°	3932	3916	3882
10°	3891	3880	3835
15°	3822	3822	3778
20°	3741	3746	3698
25°	3618	3662	3604
30°	3406	3560	3516
35°	3219	3412	3418
40°	3062	3228	3312
45°	2887	3032	3188
50°	2703	2858	3052
55°	2493	2658	2887
60°	2245	2426	2685
65°	1983	2157	2443
70°	1652	1836	2076
75°	1298	1466	1624
80°	930	1032	1147
85°	605	605	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	4.1
10°-20°	192.7	11.4
20°-30°	281.7	16.7
30°-40°	319.7	19.0
40°-50°	308.6	18.3
50°-60°	254.6	15.1
60°-70°	169.6	10.1
70°-80°	75.9	4.5
80°-90°	13.6	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°	543.0	32.2
0°-40°	862.8	51.2
0°-60°	1426.0	84.6
0°-90°	1685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	729	729	729	729	729	
5°	728	728	725	721	719	69
15°	686	688	686	683	678	193
25°	609	614	617	612	607	279
35°	490	497	519	522	520	307
45°	379	386	398	417	419	293
55°	266	270	283	299	308	237
65°	156	160	169	181	192	154
75°	62	66	70	74	78	68
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	728.7	728.7	728.7	728.7	728.7
2.5°	730.7	731.0	729.3	724.8	722.0
5°	727.9	727.6	724.8	720.9	718.6
7.5°	719.8	720.3	719.5	713.9	710.8
10°	711.9	712.2	710.0	705.5	701.8
12.5°	701.8	701.6	698.5	696.2	690.4
15°	685.9	687.6	685.9	682.8	678.0
17.5°	670.5	670.5	671.6	666.3	662.6
20°	653.1	654.0	654.0	649.8	645.6
22.5°	633.0	635.5	636.3	631.9	626.8
25°	609.2	613.9	616.7	612.3	606.9
27.5°	580.3	587.6	596.0	592.7	586.8
30°	548.1	558.8	572.8	570.0	565.8
32.5°	517.6	528.3	547.6	546.5	544.2
35°	489.9	496.6	519.3	522.1	520.2
37.5°	463.6	469.8	491.0	497.5	495.8
40°	435.9	442.6	459.4	470.9	471.4
42.5°	408.5	414.9	428.6	445.1	445.1
45°	379.3	385.8	398.4	416.6	418.8
47.5°	350.8	357.5	369.8	388.0	391.7
50°	322.8	328.9	341.3	358.9	364.5
52.5°	293.7	300.4	312.4	328.7	336.8
55°	265.7	270.2	283.3	299.0	307.7
57.5°	236.6	240.8	255.6	269.0	278.0
60°	208.6	213.9	225.4	239.1	249.4
62.5°	181.7	187.3	197.1	209.1	220.9
65°	155.7	159.9	169.4	181.4	191.8
67.5°	130.5	134.1	143.6	152.0	162.9
70°	105.0	109.7	116.7	124.9	131.9
72.5°	84.5	86.5	92.4	98.3	105.5
75°	62.4	65.8	70.5	73.9	78.1
77.5°	44.8	46.8	49.6	52.4	56.3
80°	30.0	30.8	33.3	33.9	37.0
82.5°	18.2	18.8	19.3	19.6	20.7
85°	9.8	9.8	9.8	9.2	9.2
87.5°	5.6	5.6	4.8	3.9	2.8
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)