

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: P554545

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-80-84-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: P554545
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-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

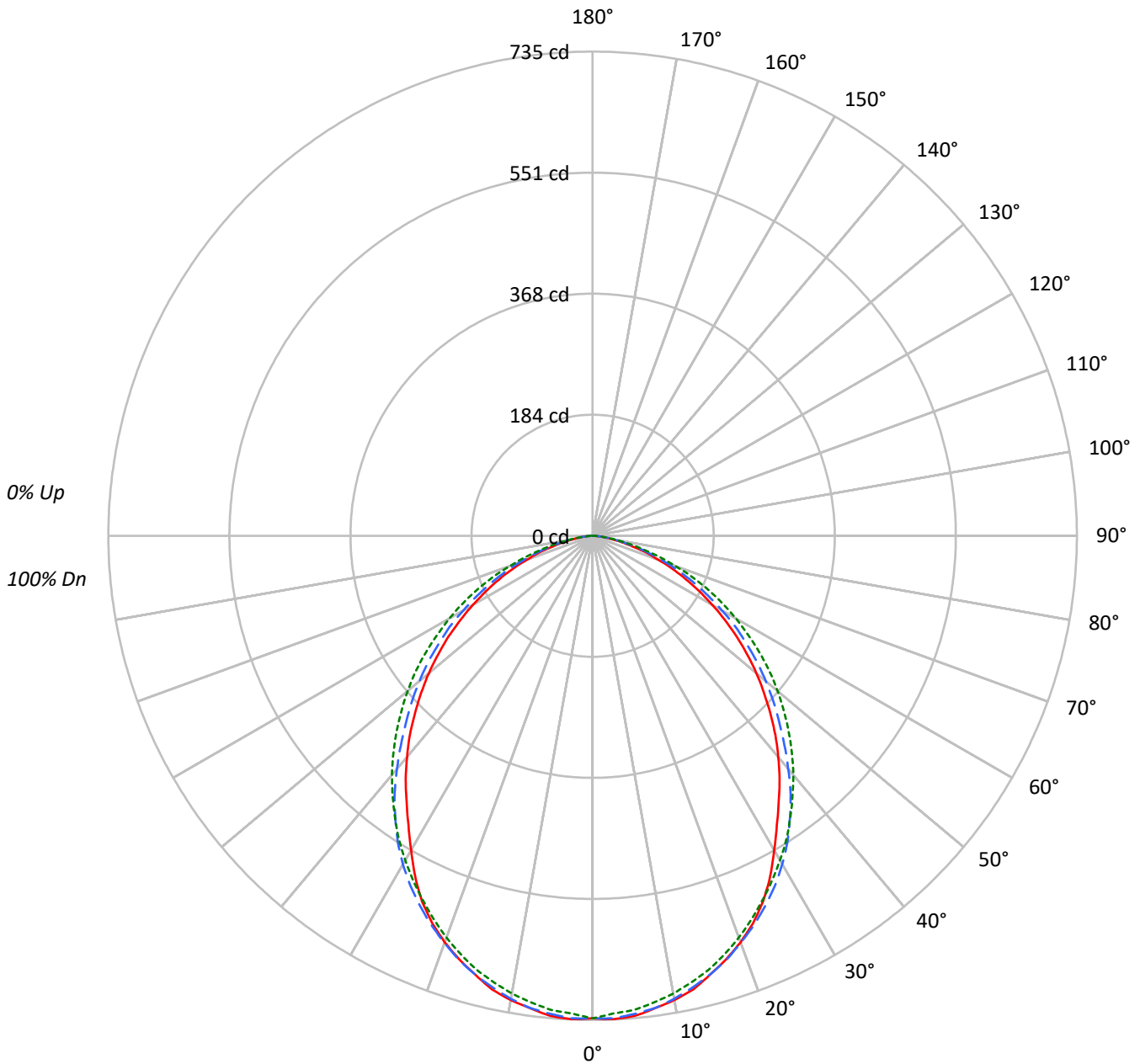
Lumens per Lamp: N/A
Luminaire Lumens: 1694.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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

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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°	3943	3943	3943
5°	3954	3937	3903
10°	3911	3901	3856
15°	3842	3842	3798
20°	3761	3766	3717
25°	3637	3682	3624
30°	3425	3578	3535
35°	3236	3430	3436
40°	3079	3245	3330
45°	2903	3048	3204
50°	2717	2873	3068
55°	2506	2672	2902
60°	2257	2439	2700
65°	1993	2169	2455
70°	1660	1847	2087
75°	1306	1474	1632
80°	933	1038	1153
85°	611	611	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	4.1
10°-20°	193.8	11.4
20°-30°	283.2	16.7
30°-40°	321.4	19.0
40°-50°	310.3	18.3
50°-60°	256.0	15.1
60°-70°	170.5	10.1
70°-80°	76.3	4.5
80°-90°	13.7	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°	545.9	32.2
0°-40°	867.4	51.2
0°-60°	1433.6	84.6
0°-90°	1694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	732	732	729	725	722	69
15°	690	691	690	686	682	194
25°	612	617	620	616	610	280
35°	492	499	522	525	523	309
45°	381	388	400	419	421	294
55°	267	272	285	301	309	238
65°	156	161	170	182	193	155
75°	63	66	71	74	78	69
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°	732.6	732.6	732.6	732.6	732.6
2.5°	734.6	734.9	733.2	728.7	725.9
5°	731.8	731.5	728.7	724.7	722.5
7.5°	723.6	724.2	723.3	717.7	714.6
10°	715.7	716.0	713.8	709.3	705.6
12.5°	705.6	705.3	702.2	700.0	694.1
15°	689.5	691.2	689.5	686.5	681.7
17.5°	674.1	674.1	675.2	669.8	666.2
20°	656.6	657.5	657.5	653.2	649.0
22.5°	636.4	638.9	639.7	635.2	630.2
25°	612.4	617.2	620.0	615.5	610.2
27.5°	583.4	590.8	599.2	595.8	589.9
30°	551.1	561.8	575.8	573.0	568.8
32.5°	520.4	531.1	550.5	549.4	547.1
35°	492.5	499.3	522.1	524.9	522.9
37.5°	466.1	472.3	493.7	500.1	498.4
40°	438.2	445.0	461.9	473.4	474.0
42.5°	410.6	417.1	430.9	447.5	447.5
45°	381.4	387.8	400.5	418.8	421.0
47.5°	352.7	359.4	371.8	390.1	393.7
50°	324.5	330.7	343.1	360.8	366.4
52.5°	295.2	302.0	314.1	330.4	338.6
55°	267.1	271.6	284.8	300.6	309.3
57.5°	237.8	242.0	257.0	270.5	279.5
60°	209.7	215.0	226.6	240.4	250.8
62.5°	182.7	188.3	198.1	210.2	222.1
65°	156.5	160.7	170.3	182.4	192.8
67.5°	131.2	134.8	144.4	152.8	163.8
70°	105.5	110.3	117.4	125.5	132.6
72.5°	85.0	87.0	92.9	98.8	106.1
75°	62.8	66.1	70.9	74.3	78.5
77.5°	45.0	47.0	49.8	52.6	56.6
80°	30.1	31.0	33.5	34.1	37.2
82.5°	18.3	18.9	19.4	19.7	20.8
85°	9.9	9.9	9.9	9.3	9.3
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)