

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: P554038

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-80-87-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: P554038
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-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

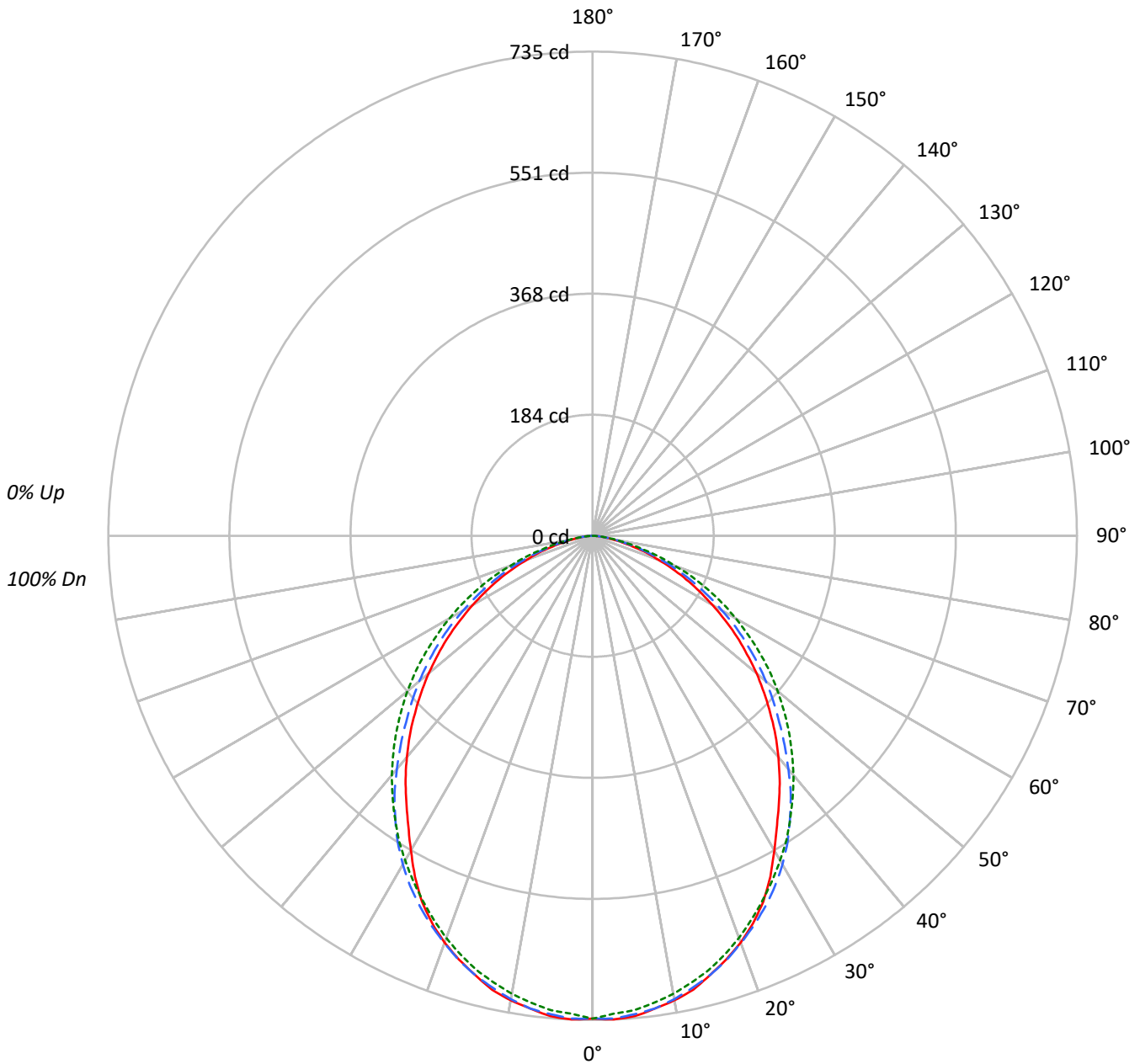
Lumens per Lamp: N/A
Luminaire Lumens: 1695.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (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°	3945	3945	3945
5°	3956	3939	3905
10°	3913	3903	3858
15°	3845	3845	3801
20°	3763	3768	3719
25°	3639	3684	3625
30°	3427	3581	3537
35°	3238	3432	3438
40°	3081	3247	3332
45°	2904	3050	3207
50°	2719	2874	3070
55°	2508	2674	2904
60°	2258	2440	2701
65°	1994	2170	2457
70°	1662	1847	2087
75°	1306	1476	1634
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°	193.9	11.4
20°-30°	283.3	16.7
30°-40°	321.6	19.0
40°-50°	310.5	18.3
50°-60°	256.1	15.1
60°-70°	170.6	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°	546.3	32.2
0°-40°	867.9	51.2
0°-60°	1434.5	84.6
0°-90°	1695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	732	732	729	725	723	69
15°	690	692	690	687	682	195
25°	613	618	620	616	610	281
35°	493	500	522	525	523	309
45°	382	388	401	419	421	294
55°	267	272	285	301	310	239
65°	157	161	170	182	193	155
75°	63	66	71	74	79	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°	733.0	733.0	733.0	733.0	733.0
2.5°	735.0	735.3	733.6	729.1	726.3
5°	732.2	731.9	729.1	725.2	722.9
7.5°	724.0	724.6	723.8	718.1	715.0
10°	716.1	716.4	714.2	709.7	706.0
12.5°	706.0	705.7	702.6	700.4	694.5
15°	690.0	691.6	690.0	686.9	682.1
17.5°	674.5	674.5	675.6	670.2	666.6
20°	657.0	657.9	657.9	653.6	649.4
22.5°	636.7	639.3	640.1	635.6	630.5
25°	612.8	617.6	620.4	615.9	610.5
27.5°	583.8	591.1	599.6	596.2	590.3
30°	551.4	562.1	576.2	573.4	569.1
32.5°	520.7	531.4	550.8	549.7	547.5
35°	492.8	499.6	522.4	525.2	523.2
37.5°	466.4	472.5	494.0	500.4	498.7
40°	438.5	445.2	462.1	473.7	474.2
42.5°	410.9	417.4	431.2	447.8	447.8
45°	381.6	388.1	400.7	419.0	421.3
47.5°	352.9	359.6	372.0	390.3	394.0
50°	324.7	330.9	343.3	361.0	366.7
52.5°	295.4	302.2	314.3	330.6	338.8
55°	267.3	271.8	285.0	300.8	309.5
57.5°	238.0	242.2	257.1	270.6	279.6
60°	209.8	215.2	226.7	240.5	250.9
62.5°	182.8	188.4	198.3	210.4	222.2
65°	156.6	160.8	170.4	182.5	192.9
67.5°	131.2	134.9	144.5	152.9	163.9
70°	105.6	110.4	117.4	125.6	132.6
72.5°	85.0	87.0	92.9	98.8	106.2
75°	62.8	66.2	71.0	74.3	78.6
77.5°	45.1	47.0	49.8	52.7	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)