

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: P555110

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-93-87-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: P555110
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-50-UNV-93-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

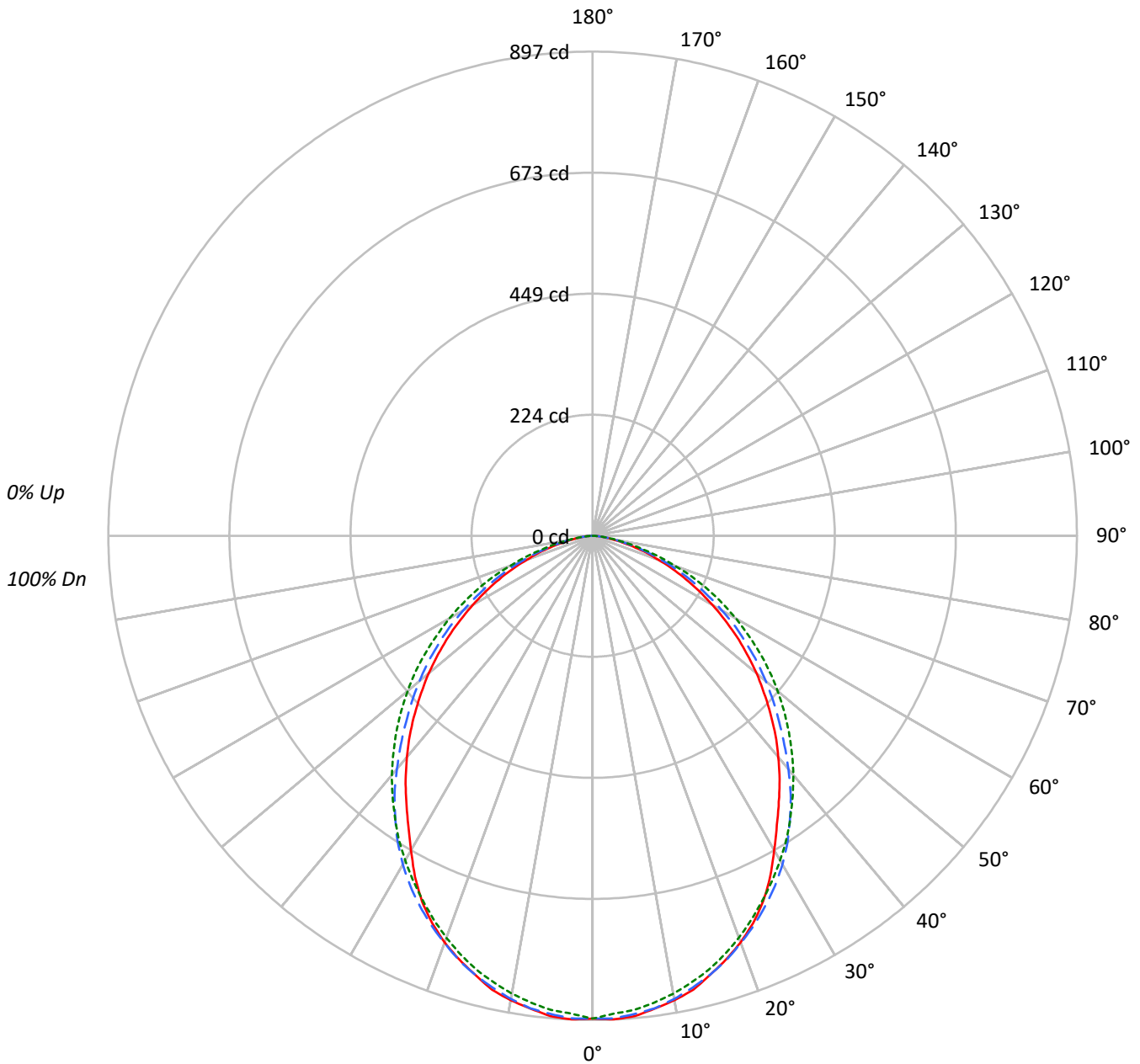
Lumens per Lamp: N/A
Luminaire Lumens: 2068.0 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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°	4814	4814	4814
5°	4826	4806	4765
10°	4775	4762	4708
15°	4690	4690	4637
20°	4591	4597	4538
25°	4439	4495	4423
30°	4181	4369	4315
35°	3951	4188	4194
40°	3759	3961	4065
45°	3544	3721	3912
50°	3317	3507	3746
55°	3060	3263	3543
60°	2756	2977	3295
65°	2432	2648	2998
70°	2027	2255	2546
75°	1593	1801	1994
80°	1141	1268	1407
85°	741	741	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	4.1
10°-20°	236.6	11.4
20°-30°	345.7	16.7
30°-40°	392.4	19.0
40°-50°	378.8	18.3
50°-60°	312.5	15.1
60°-70°	208.1	10.1
70°-80°	93.1	4.5
80°-90°	16.7	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°	666.5	32.2
0°-40°	1058.9	51.2
0°-60°	1750.1	84.6
0°-90°	2068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	894	894	894	894	894	
5°	893	893	890	885	882	85
15°	842	844	842	838	832	237
25°	748	754	757	751	745	342
35°	601	610	637	641	638	377
45°	466	474	489	511	514	359
55°	326	332	348	367	378	291
65°	191	196	208	223	235	189
75°	77	81	87	91	96	84
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	894.4	894.4	894.4	894.4	894.4
2.5°	896.8	897.1	895.0	889.5	886.1
5°	893.3	893.0	889.5	884.7	882.0
7.5°	883.4	884.0	883.0	876.1	872.4
10°	873.7	874.1	871.3	865.8	861.4
12.5°	861.4	861.0	857.2	854.5	847.3
15°	841.8	843.8	841.8	838.0	832.2
17.5°	822.9	822.9	824.3	817.7	813.3
20°	801.6	802.6	802.6	797.5	792.3
22.5°	776.8	779.9	781.0	775.5	769.3
25°	747.6	753.5	756.9	751.4	744.9
27.5°	712.3	721.2	731.5	727.4	720.2
30°	672.7	685.8	703.0	699.5	694.4
32.5°	635.3	648.3	672.1	670.7	667.9
35°	601.3	609.5	637.4	640.8	638.4
37.5°	569.0	576.5	602.7	610.6	608.5
40°	535.0	543.2	563.8	577.9	578.6
42.5°	501.3	509.2	526.0	546.3	546.3
45°	465.6	473.5	488.9	511.3	514.0
47.5°	430.5	438.8	453.9	476.2	480.7
50°	396.2	403.7	418.8	440.5	447.4
52.5°	360.4	368.7	383.4	403.4	413.3
55°	326.1	331.6	347.7	367.0	377.6
57.5°	290.3	295.5	313.7	330.2	341.2
60°	256.0	262.5	276.6	293.4	306.1
62.5°	223.0	229.9	241.9	256.7	271.1
65°	191.0	196.2	207.9	222.6	235.4
67.5°	160.1	164.6	176.3	186.6	200.0
70°	128.8	134.7	143.3	153.2	161.8
72.5°	103.8	106.2	113.4	120.6	129.5
75°	76.6	80.7	86.6	90.7	95.9
77.5°	55.0	57.4	60.8	64.3	69.1
80°	36.8	37.8	40.9	41.6	45.4
82.5°	22.3	23.0	23.7	24.1	25.4
85°	12.0	12.0	12.0	11.3	11.3
87.5°	6.9	6.9	5.8	4.8	3.4
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)