

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: P554914

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-93-85-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: P554914
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-93-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

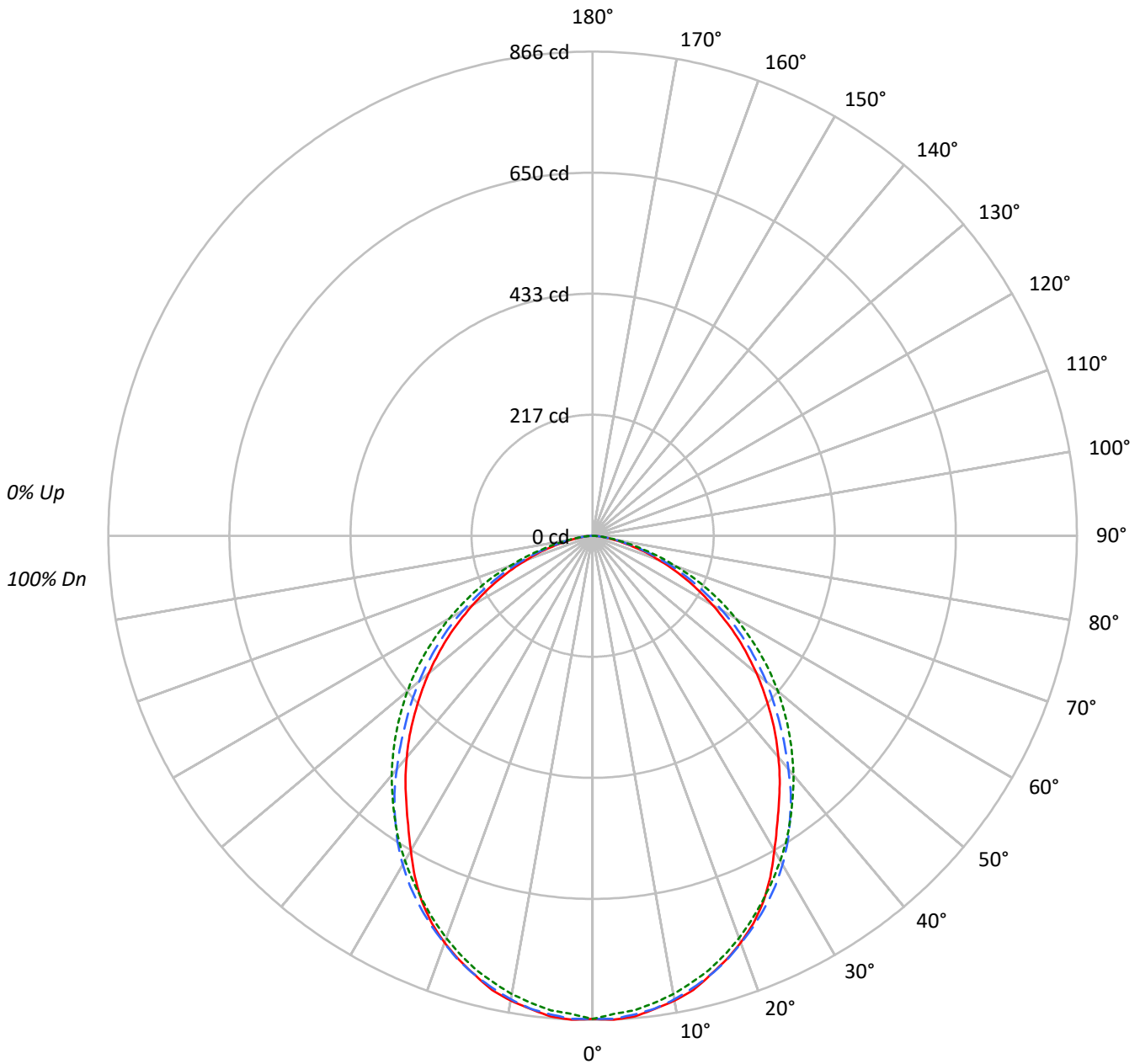
Lumens per Lamp: N/A
Luminaire Lumens: 1998.0 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4651	4651	4651
5°	4663	4643	4603
10°	4614	4600	4548
15°	4532	4532	4480
20°	4436	4442	4384
25°	4289	4343	4274
30°	4039	4221	4169
35°	3817	4046	4052
40°	3632	3827	3927
45°	3424	3596	3780
50°	3204	3388	3619
55°	2956	3152	3423
60°	2662	2876	3184
65°	2351	2557	2896
70°	1959	2178	2461
75°	1539	1740	1926
80°	1100	1224	1358
85°	716	716	679



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	4.1
10°-20°	228.6	11.4
20°-30°	334.0	16.7
30°-40°	379.1	19.0
40°-50°	366.0	18.3
50°-60°	301.9	15.1
60°-70°	201.0	10.1
70°-80°	90.0	4.5
80°-90°	16.1	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°	643.9	32.2
0°-40°	1023.0	51.2
0°-60°	1690.9	84.6
0°-90°	1998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	863	863	859	855	852	82
15°	813	815	813	810	804	229
25°	722	728	731	726	720	331
35°	581	589	616	619	617	364
45°	450	457	472	494	497	347
55°	315	320	336	354	365	281
65°	185	190	201	215	227	183
75°	74	78	84	88	93	81
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°	864.1	864.1	864.1	864.1	864.1
2.5°	866.4	866.7	864.7	859.4	856.1
5°	863.1	862.8	859.4	854.8	852.1
7.5°	853.5	854.1	853.1	846.5	842.8
10°	844.2	844.5	841.8	836.5	832.2
12.5°	832.2	831.9	828.2	825.6	818.6
15°	813.3	815.3	813.3	809.6	804.0
17.5°	795.0	795.0	796.4	790.1	785.7
20°	774.5	775.5	775.5	770.5	765.5
22.5°	750.6	753.5	754.5	749.2	743.3
25°	722.3	728.0	731.3	726.0	719.7
27.5°	688.1	696.8	706.7	702.8	695.8
30°	650.0	662.6	679.2	675.9	670.9
32.5°	613.8	626.4	649.3	648.0	645.3
35°	580.9	588.9	615.8	619.1	616.8
37.5°	549.7	557.0	582.3	589.9	587.9
40°	516.9	524.8	544.7	558.4	559.0
42.5°	484.3	492.0	508.2	527.8	527.8
45°	449.8	457.4	472.4	494.0	496.6
47.5°	415.9	423.9	438.5	460.1	464.4
50°	382.7	390.0	404.7	425.6	432.2
52.5°	348.2	356.2	370.5	389.7	399.3
55°	315.0	320.3	335.9	354.5	364.8
57.5°	280.5	285.5	303.1	319.0	329.6
60°	247.3	253.6	267.2	283.5	295.8
62.5°	215.4	222.1	233.7	248.0	261.9
65°	184.6	189.5	200.8	215.1	227.4
67.5°	154.7	159.0	170.3	180.3	193.2
70°	124.5	130.1	138.4	148.1	156.4
72.5°	100.3	102.6	109.5	116.5	125.1
75°	74.0	78.0	83.7	87.6	92.6
77.5°	53.1	55.4	58.8	62.1	66.7
80°	35.5	36.5	39.5	40.2	43.8
82.5°	21.6	22.2	22.9	23.2	24.6
85°	11.6	11.6	11.6	11.0	11.0
87.5°	6.6	6.6	5.6	4.6	3.3
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)