

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: P554972

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-82-96-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: P554972
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-35-UNV-82-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

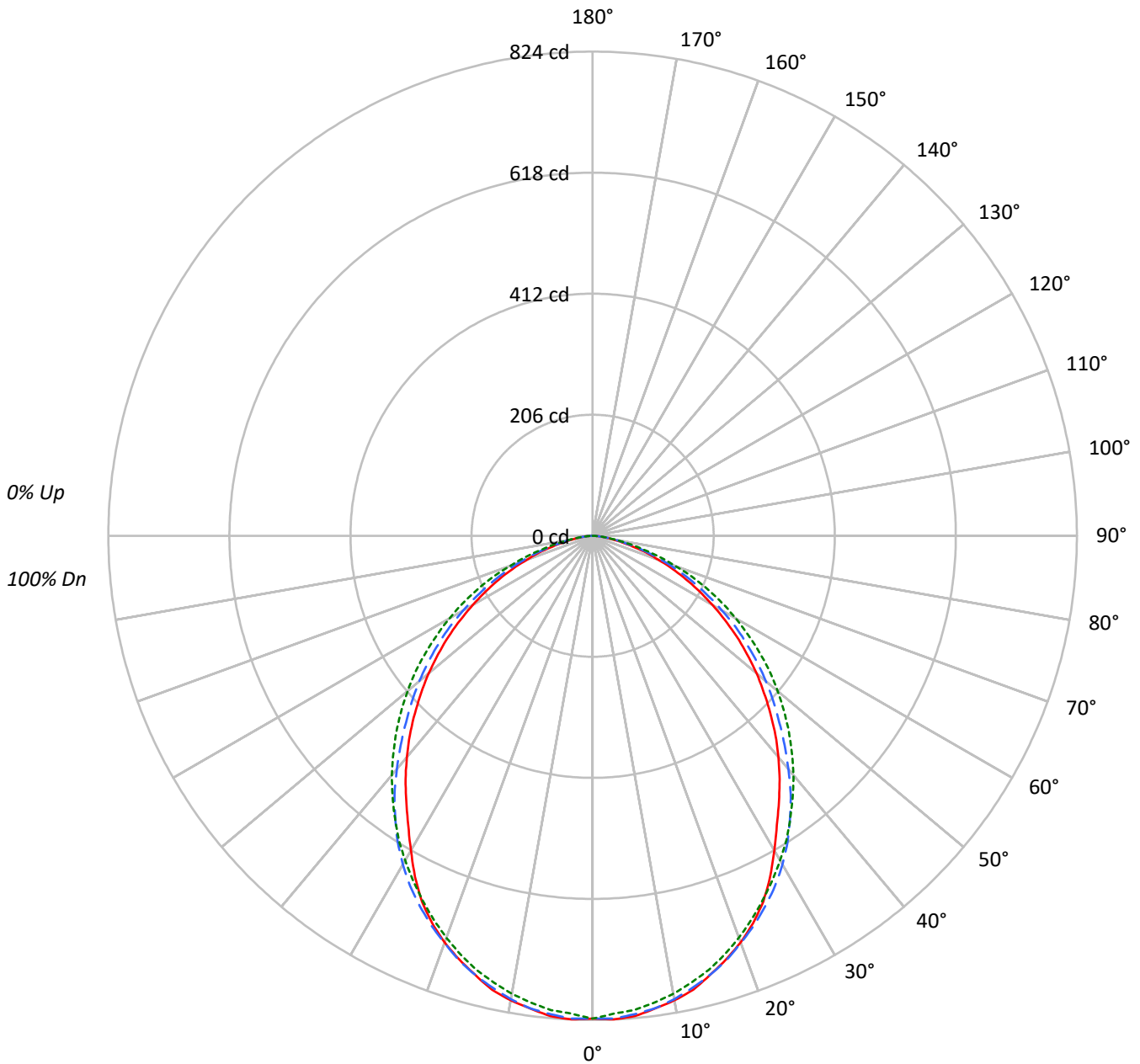
Lumens per Lamp: N/A
Luminaire Lumens: 1900.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4422	4422	4422
5°	4434	4415	4378
10°	4387	4375	4325
15°	4309	4309	4260
20°	4218	4223	4169
25°	4079	4130	4064
30°	3841	4014	3965
35°	3629	3847	3853
40°	3453	3639	3735
45°	3255	3419	3594
50°	3048	3222	3441
55°	2811	2998	3255
60°	2532	2735	3028
65°	2235	2432	2753
70°	1863	2071	2340
75°	1464	1653	1832
80°	1048	1165	1292
85°	679	679	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	4.1
10°-20°	217.3	11.4
20°-30°	317.6	16.7
30°-40°	360.5	19.0
40°-50°	348.0	18.3
50°-60°	287.1	15.1
60°-70°	191.2	10.1
70°-80°	85.5	4.5
80°-90°	15.3	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°	612.3	32.2
0°-40°	972.8	51.2
0°-60°	1608.0	84.6
0°-90°	1900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	821	820	817	813	810	78
15°	773	775	773	770	765	218
25°	687	692	695	690	684	315
35°	552	560	586	589	586	346
45°	428	435	449	470	472	330
55°	300	305	320	337	347	267
65°	176	180	191	205	216	174
75°	70	74	80	83	88	77
85°	11	11	11	10	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	821.7	821.7	821.7	821.7	821.7
2.5°	823.9	824.2	822.3	817.3	814.1
5°	820.8	820.4	817.3	812.9	810.3
7.5°	811.6	812.2	811.3	805.0	801.5
10°	802.8	803.1	800.6	795.5	791.4
12.5°	791.4	791.1	787.6	785.1	778.5
15°	773.4	775.3	773.4	769.9	764.6
17.5°	756.0	756.0	757.3	751.3	747.2
20°	736.5	737.4	737.4	732.7	727.9
22.5°	713.7	716.6	717.5	712.5	706.8
25°	686.9	692.3	695.4	690.4	684.4
27.5°	654.4	662.6	672.1	668.3	661.7
30°	618.1	630.1	645.9	642.7	638.0
32.5°	583.7	595.7	617.5	616.2	613.7
35°	552.4	560.0	585.6	588.7	586.5
37.5°	522.8	529.7	553.7	561.0	559.1
40°	491.5	499.1	518.0	531.0	531.6
42.5°	460.6	467.8	483.3	501.9	501.9
45°	427.7	435.0	449.2	469.7	472.2
47.5°	395.5	403.1	417.0	437.5	441.6
50°	364.0	370.9	384.8	404.7	411.0
52.5°	331.1	338.7	352.3	370.6	379.8
55°	299.6	304.6	319.5	337.1	346.9
57.5°	266.7	271.5	288.2	303.4	313.5
60°	235.2	241.2	254.1	269.6	281.3
62.5°	204.9	211.2	222.2	235.8	249.1
65°	175.5	180.3	191.0	204.6	216.2
67.5°	147.1	151.2	161.9	171.4	183.7
70°	118.4	123.7	131.6	140.8	148.7
72.5°	95.3	97.5	104.2	110.8	119.0
75°	70.4	74.2	79.5	83.3	88.1
77.5°	50.5	52.7	55.9	59.0	63.5
80°	33.8	34.7	37.6	38.2	41.7
82.5°	20.5	21.2	21.8	22.1	23.4
85°	11.0	11.0	11.0	10.4	10.4
87.5°	6.3	6.3	5.4	4.4	3.2
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)