

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: P554872

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-80-88-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: P554872
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-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

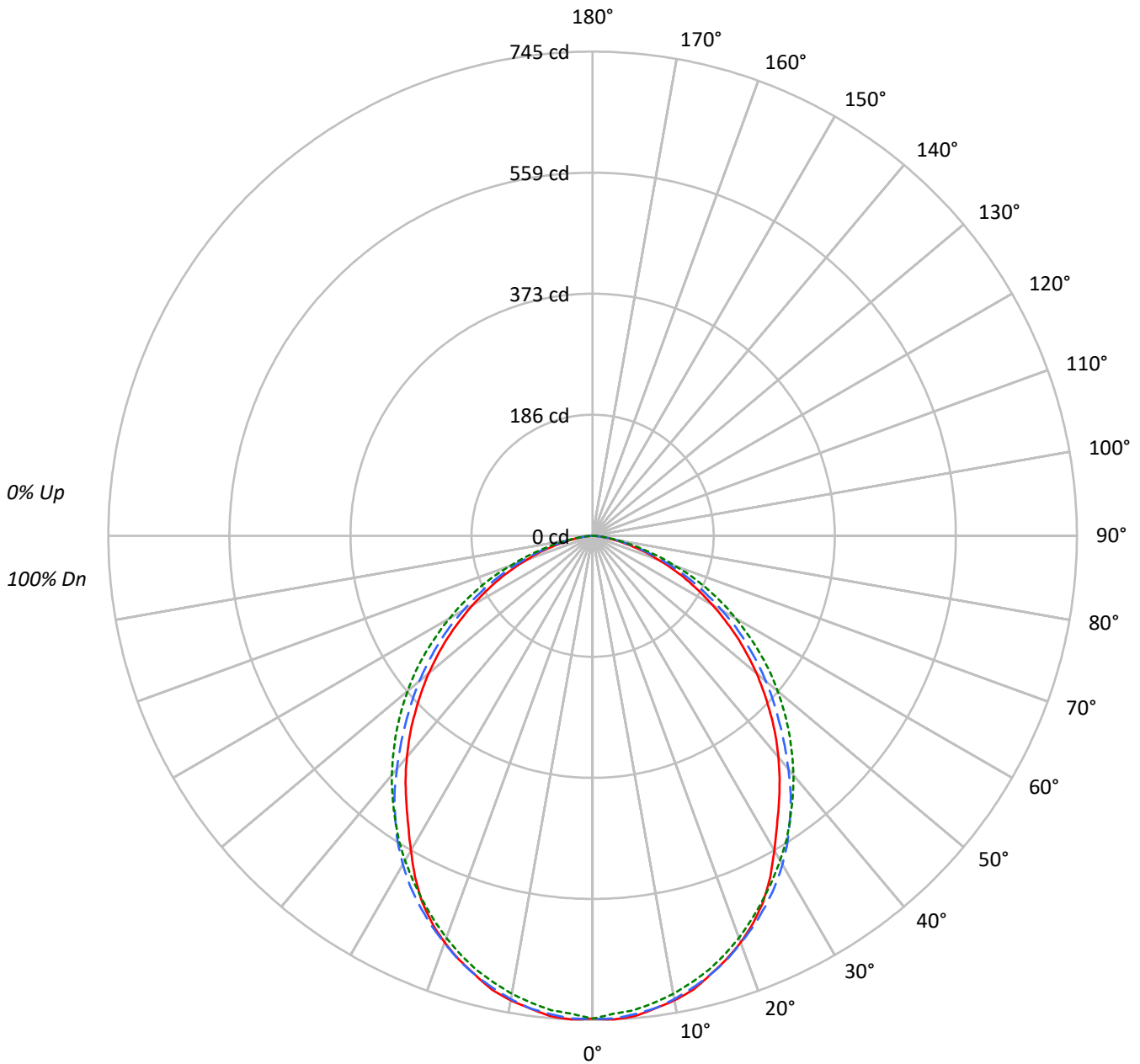
Lumens per Lamp: N/A
Luminaire Lumens: 1718.0 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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				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°	3999	3999	3999
5°	4009	3992	3958
10°	3967	3956	3911
15°	3896	3896	3852
20°	3814	3819	3770
25°	3688	3734	3675
30°	3473	3629	3585
35°	3282	3479	3484
40°	3122	3291	3377
45°	2944	3092	3250
50°	2756	2913	3111
55°	2542	2711	2943
60°	2289	2474	2737
65°	2021	2199	2490
70°	1684	1873	2115
75°	1325	1495	1655
80°	945	1054	1168
85°	618	618	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	4.1
10°-20°	196.5	11.4
20°-30°	287.2	16.7
30°-40°	326.0	19.0
40°-50°	314.7	18.3
50°-60°	259.6	15.1
60°-70°	172.9	10.1
70°-80°	77.4	4.5
80°-90°	13.8	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°	553.7	32.2
0°-40°	879.6	51.2
0°-60°	1453.9	84.6
0°-90°	1718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	742	742	739	735	733	70
15°	699	701	699	696	691	197
25°	621	626	629	624	619	284
35°	500	506	530	532	530	313
45°	387	393	406	425	427	298
55°	271	275	289	305	314	242
65°	159	163	173	185	196	157
75°	64	67	72	75	80	70
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°	743.0	743.0	743.0	743.0	743.0
2.5°	745.0	745.3	743.6	739.0	736.1
5°	742.1	741.8	739.0	735.0	732.7
7.5°	733.9	734.4	733.6	727.9	724.7
10°	725.9	726.1	723.9	719.3	715.6
12.5°	715.6	715.3	712.2	709.9	703.9
15°	699.3	701.0	699.3	696.2	691.3
17.5°	683.6	683.6	684.8	679.3	675.6
20°	665.9	666.8	666.8	662.5	658.2
22.5°	645.4	647.9	648.8	644.2	639.1
25°	621.1	626.0	628.8	624.2	618.8
27.5°	591.7	599.1	607.7	604.3	598.3
30°	558.9	569.7	584.0	581.1	576.9
32.5°	527.8	538.6	558.3	557.2	554.9
35°	499.5	506.4	529.5	532.3	530.3
37.5°	472.7	479.0	500.7	507.2	505.5
40°	444.4	451.3	468.4	480.1	480.7
42.5°	416.5	423.0	437.0	453.8	453.8
45°	386.8	393.3	406.2	424.7	427.0
47.5°	357.7	364.5	377.1	395.6	399.3
50°	329.1	335.4	347.9	365.9	371.6
52.5°	299.4	306.3	318.5	335.1	343.4
55°	270.9	275.4	288.9	304.8	313.7
57.5°	241.2	245.5	260.6	274.3	283.4
60°	212.7	218.1	229.8	243.8	254.3
62.5°	185.2	191.0	200.9	213.2	225.2
65°	158.7	163.0	172.7	185.0	195.5
67.5°	133.0	136.7	146.4	155.0	166.1
70°	107.0	111.9	119.0	127.3	134.4
72.5°	86.2	88.2	94.2	100.2	107.6
75°	63.7	67.1	71.9	75.4	79.6
77.5°	45.7	47.7	50.5	53.4	57.4
80°	30.5	31.4	34.0	34.5	37.7
82.5°	18.6	19.1	19.7	20.0	21.1
85°	10.0	10.0	10.0	9.4	9.4
87.5°	5.7	5.7	4.9	4.0	2.9
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)