

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: P555113

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-93-88-EDD**

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: P555113
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-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

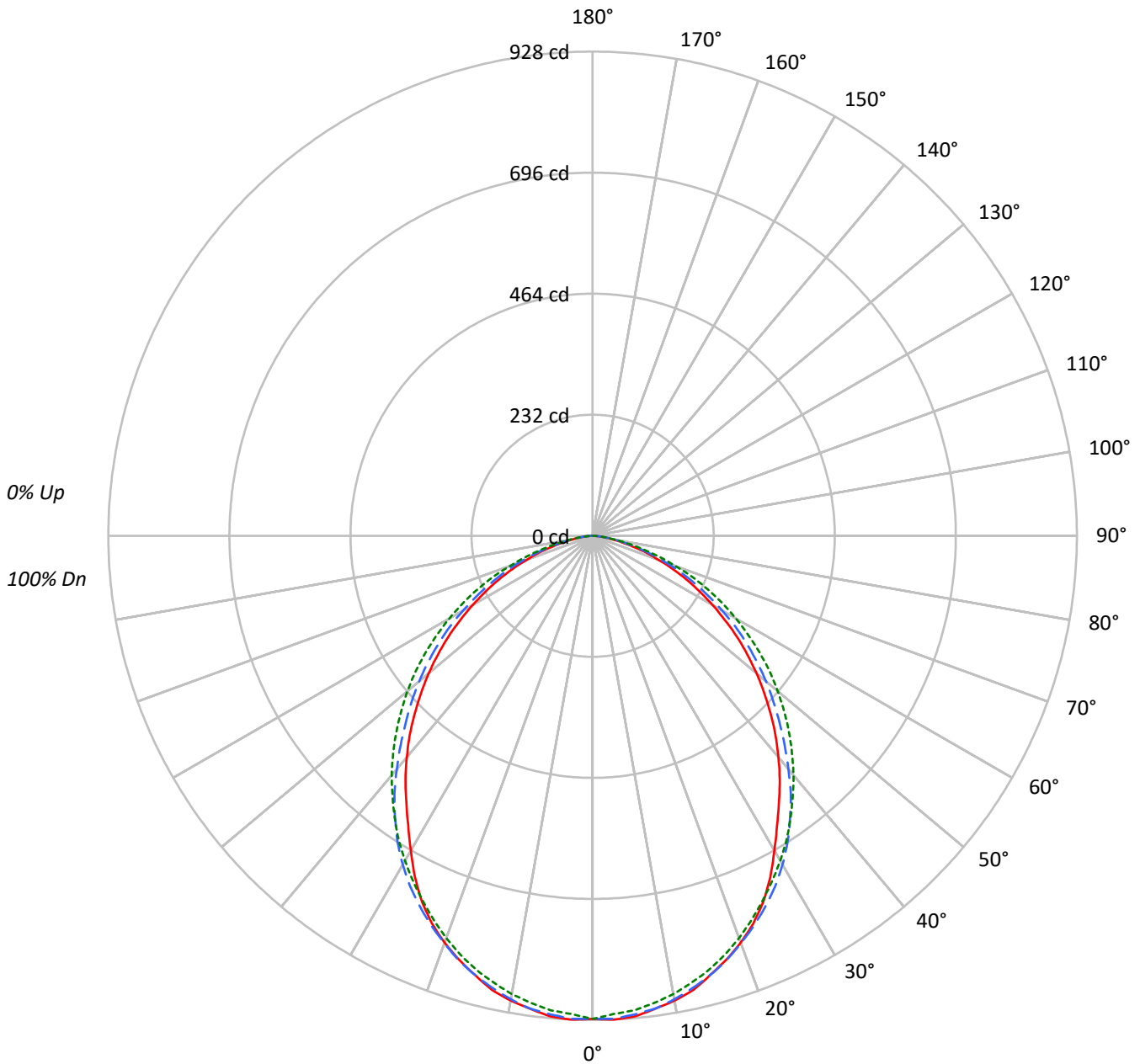
Lumens per Lamp: N/A
Luminaire Lumens: 2141.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4983	4983	4983
5°	4997	4975	4933
10°	4944	4930	4874
15°	4856	4856	4800
20°	4753	4759	4698
25°	4596	4653	4580
30°	4328	4523	4468
35°	4090	4336	4342
40°	3891	4101	4208
45°	3669	3853	4051
50°	3434	3630	3877
55°	3168	3378	3668
60°	2852	3083	3411
65°	2519	2741	3103
70°	2099	2334	2636
75°	1649	1863	2063
80°	1181	1311	1457
85°	772	772	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	4.1
10°-20°	244.9	11.4
20°-30°	357.9	16.7
30°-40°	406.2	19.0
40°-50°	392.2	18.3
50°-60°	323.5	15.1
60°-70°	215.4	10.1
70°-80°	96.4	4.5
80°-90°	17.2	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°	690.0	32.2
0°-40°	1096.2	51.2
0°-60°	1811.9	84.6
0°-90°	2141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	925	924	921	916	913	88
15°	872	874	872	868	862	246
25°	774	780	784	778	771	354
35°	622	631	660	663	661	390
45°	482	490	506	529	532	372
55°	338	343	360	380	391	301
65°	198	203	215	230	244	196
75°	79	84	90	94	99	87
85°	12	12	12	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.9	925.9	925.9	925.9	925.9
2.5°	928.4	928.8	926.6	920.9	917.4
5°	924.9	924.5	920.9	916.0	913.1
7.5°	914.5	915.3	914.2	907.1	903.2
10°	904.6	904.9	902.1	896.4	891.8
12.5°	891.8	891.4	887.5	884.7	877.2
15°	871.5	873.6	871.5	867.6	861.5
17.5°	851.9	851.9	853.4	846.6	842.0
20°	829.9	831.0	831.0	825.6	820.3
22.5°	804.3	807.5	808.5	802.8	796.4
25°	774.0	780.1	783.6	777.9	771.2
27.5°	737.4	746.6	757.3	753.0	745.6
30°	696.5	710.0	727.8	724.2	718.9
32.5°	657.7	671.2	695.8	694.4	691.5
35°	622.5	631.0	659.9	663.4	660.9
37.5°	589.1	596.9	623.9	632.1	630.0
40°	553.8	562.4	583.7	598.3	599.0
42.5°	519.0	527.2	544.6	565.6	565.6
45°	482.0	490.2	506.2	529.3	532.2
47.5°	445.7	454.2	469.9	493.0	497.6
50°	410.1	418.0	433.6	456.0	463.1
52.5°	373.1	381.7	397.0	417.6	427.9
55°	337.6	343.3	360.0	379.9	390.9
57.5°	300.6	305.9	324.8	341.8	353.2
60°	265.0	271.8	286.4	303.8	316.9
62.5°	230.9	238.0	250.4	265.7	280.7
65°	197.8	203.1	215.2	230.5	243.7
67.5°	165.8	170.4	182.5	193.2	207.0
70°	133.4	139.4	148.3	158.6	167.5
72.5°	107.4	109.9	117.4	124.9	134.1
75°	79.3	83.6	89.6	93.9	99.2
77.5°	56.9	59.4	63.0	66.5	71.5
80°	38.1	39.1	42.3	43.0	47.0
82.5°	23.1	23.8	24.5	24.9	26.3
85°	12.5	12.5	12.5	11.7	11.7
87.5°	7.1	7.1	6.0	5.0	3.6
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)