

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: P555060

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-80-86-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: P555060
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-80-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

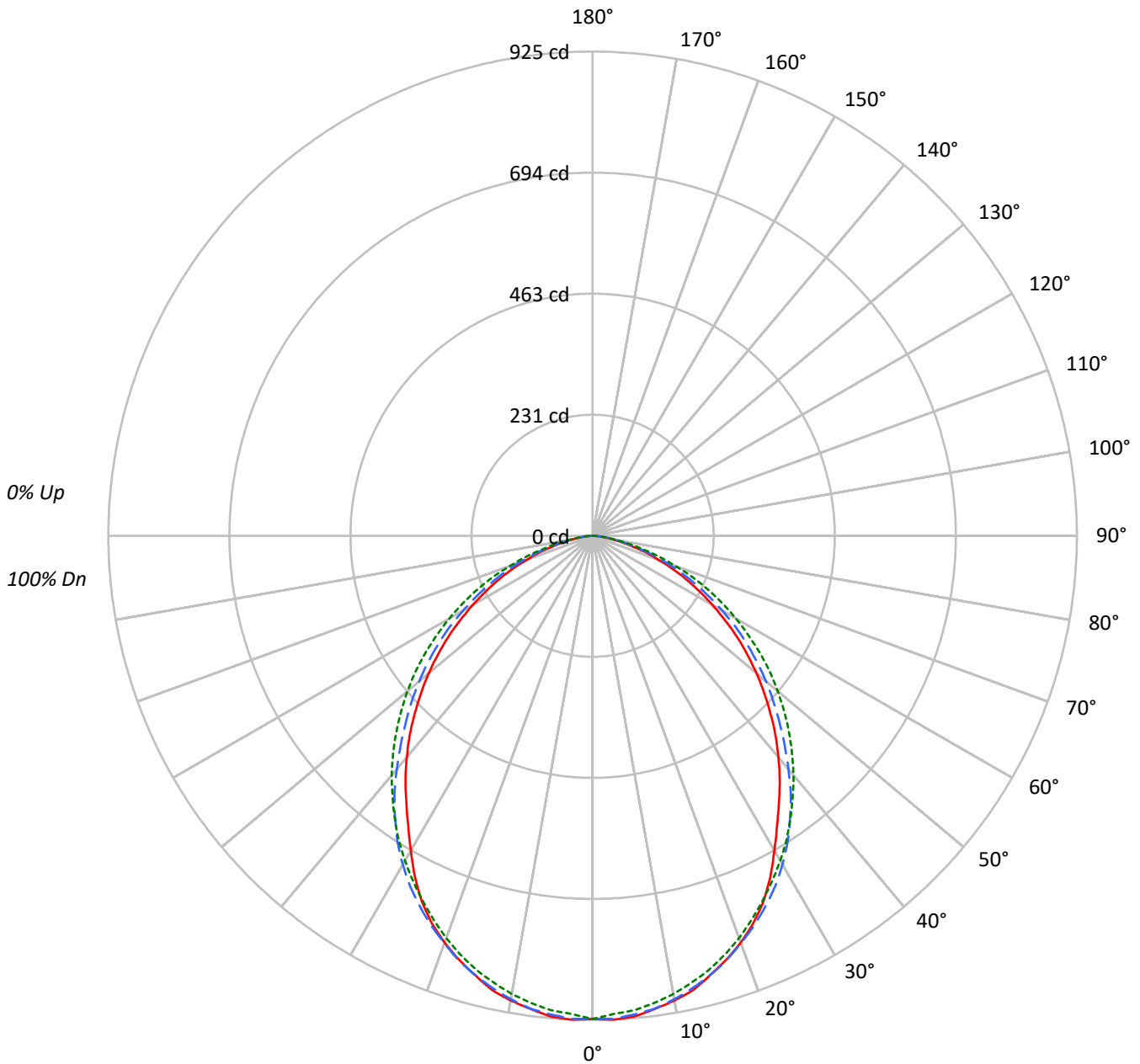
Lumens per Lamp: N/A
Luminaire Lumens: 2134.0 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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									
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°	4967	4967	4967
5°	4980	4959	4917
10°	4927	4914	4858
15°	4840	4840	4785
20°	4738	4743	4683
25°	4581	4638	4565
30°	4314	4508	4453
35°	4077	4321	4328
40°	3878	4088	4195
45°	3656	3840	4037
50°	3423	3619	3865
55°	3157	3367	3657
60°	2843	3072	3400
65°	2510	2732	3093
70°	2093	2326	2628
75°	1645	1857	2057
80°	1175	1308	1450
85°	766	766	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	4.1
10°-20°	244.1	11.4
20°-30°	356.7	16.7
30°-40°	404.9	19.0
40°-50°	390.9	18.3
50°-60°	322.4	15.1
60°-70°	214.7	10.1
70°-80°	96.1	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°	687.7	32.2
0°-40°	1092.6	51.2
0°-60°	1806.0	84.6
0°-90°	2134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	922	922	918	913	910	87
15°	869	871	869	865	859	245
25°	772	778	781	775	769	353
35°	620	629	658	661	659	389
45°	480	489	504	528	530	371
55°	336	342	359	379	390	300
65°	197	202	214	230	243	195
75°	79	83	89	94	99	86
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°	922.9	922.9	922.9	922.9	922.9
2.5°	925.4	925.7	923.6	917.9	914.4
5°	921.8	921.5	917.9	913.0	910.1
7.5°	911.6	912.3	911.2	904.1	900.2
10°	901.6	902.0	899.1	893.5	888.9
12.5°	888.9	888.5	884.6	881.8	874.3
15°	868.7	870.8	868.7	864.8	858.7
17.5°	849.2	849.2	850.6	843.8	839.2
20°	827.2	828.2	828.2	822.9	817.6
22.5°	801.6	804.8	805.9	800.2	793.8
25°	771.5	777.5	781.1	775.4	768.7
27.5°	735.0	744.2	754.8	750.6	743.1
30°	694.2	707.7	725.4	721.9	716.6
32.5°	655.6	669.0	693.5	692.1	689.2
35°	620.5	629.0	657.7	661.2	658.8
37.5°	587.1	594.9	621.9	630.0	627.9
40°	552.0	560.5	581.8	596.4	597.1
42.5°	517.3	525.4	542.8	563.7	563.7
45°	480.4	488.6	504.5	527.6	530.4
47.5°	444.3	452.8	468.4	491.4	496.0
50°	408.8	416.6	432.2	454.5	461.6
52.5°	371.9	380.4	395.7	416.2	426.5
55°	336.5	342.1	358.8	378.7	389.7
57.5°	299.6	304.9	323.7	340.7	352.1
60°	264.1	270.9	285.4	302.8	315.9
62.5°	230.1	237.2	249.6	264.9	279.7
65°	197.1	202.4	214.5	229.7	242.9
67.5°	165.2	169.8	181.9	192.5	206.3
70°	133.0	139.0	147.8	158.1	167.0
72.5°	107.1	109.6	117.0	124.4	133.7
75°	79.1	83.3	89.3	93.6	98.9
77.5°	56.7	59.2	62.8	66.3	71.3
80°	37.9	39.0	42.2	42.9	46.8
82.5°	23.0	23.8	24.5	24.8	26.2
85°	12.4	12.4	12.4	11.7	11.7
87.5°	7.1	7.1	6.0	5.0	3.5
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)