

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: P555108

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-93-86-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: P555108
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-93-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

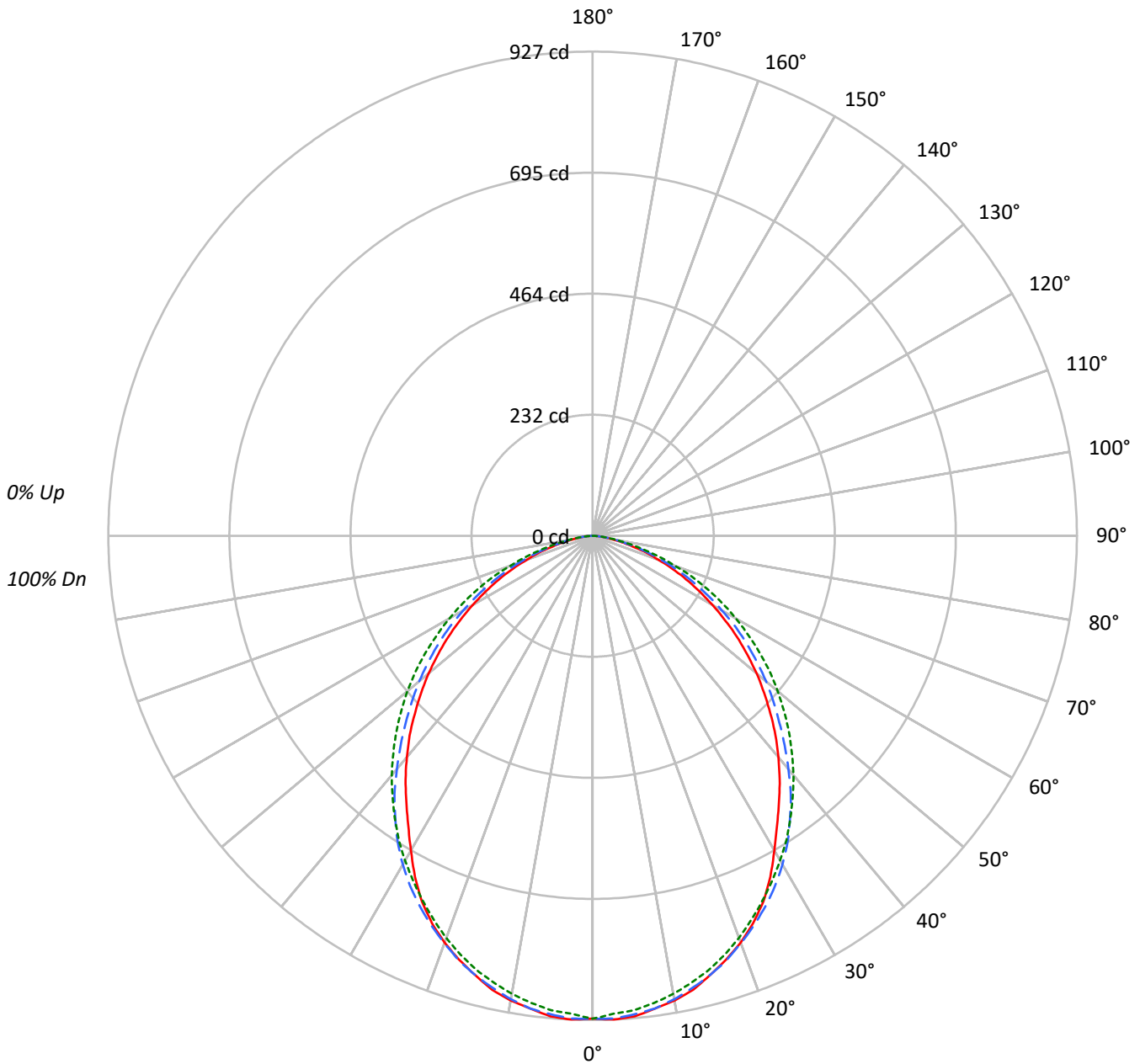
Lumens per Lamp: N/A
Luminaire Lumens: 2138.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	4976	4976	4976
5°	4990	4969	4926
10°	4937	4923	4867
15°	4849	4849	4793
20°	4746	4753	4691
25°	4590	4647	4573
30°	4322	4517	4461
35°	4084	4329	4336
40°	3886	4095	4203
45°	3663	3847	4045
50°	3430	3625	3872
55°	3163	3373	3663
60°	2848	3077	3407
65°	2515	2737	3098
70°	2096	2330	2633
75°	1647	1861	2061
80°	1178	1311	1454
85°	766	766	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	4.1
10°-20°	244.6	11.4
20°-30°	357.4	16.7
30°-40°	405.7	19.0
40°-50°	391.6	18.3
50°-60°	323.1	15.1
60°-70°	215.1	10.1
70°-80°	96.3	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°	689.0	32.2
0°-40°	1094.7	51.2
0°-60°	1809.4	84.6
0°-90°	2138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	924	923	920	915	912	87
15°	870	872	870	866	860	245
25°	773	779	782	777	770	354
35°	622	630	659	662	660	389
45°	481	490	506	529	531	371
55°	337	343	360	379	390	301
65°	198	203	215	230	243	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°	924.6	924.6	924.6	924.6	924.6
2.5°	927.1	927.5	925.3	919.7	916.1
5°	923.6	923.2	919.7	914.7	911.8
7.5°	913.3	914.0	912.9	905.8	901.9
10°	903.3	903.7	900.8	895.1	890.5
12.5°	890.5	890.2	886.3	883.4	876.0
15°	870.3	872.4	870.3	866.4	860.3
17.5°	850.7	850.7	852.2	845.4	840.8
20°	828.7	829.8	829.8	824.5	819.1
22.5°	803.1	806.3	807.4	801.7	795.3
25°	773.0	779.0	782.5	776.9	770.1
27.5°	736.4	745.6	756.3	752.0	744.5
30°	695.5	709.0	726.8	723.2	717.9
32.5°	656.8	670.3	694.8	693.4	690.5
35°	621.6	630.2	658.9	662.5	660.0
37.5°	588.2	596.1	623.1	631.2	629.1
40°	553.1	561.6	582.9	597.5	598.2
42.5°	518.3	526.4	543.8	564.8	564.8
45°	481.3	489.5	505.5	528.6	531.4
47.5°	445.1	453.6	469.2	492.3	496.9
50°	409.6	417.4	433.0	455.4	462.5
52.5°	372.6	381.1	396.4	417.0	427.3
55°	337.1	342.8	359.5	379.4	390.4
57.5°	300.2	305.5	324.3	341.4	352.7
60°	264.6	271.4	285.9	303.4	316.5
62.5°	230.5	237.6	250.1	265.3	280.3
65°	197.5	202.8	214.9	230.2	243.3
67.5°	165.5	170.1	182.2	192.9	206.7
70°	133.2	139.2	148.1	158.4	167.3
72.5°	107.3	109.8	117.2	124.7	133.9
75°	79.2	83.5	89.5	93.8	99.1
77.5°	56.8	59.3	62.9	66.4	71.4
80°	38.0	39.1	42.3	43.0	46.9
82.5°	23.1	23.8	24.5	24.9	26.3
85°	12.4	12.4	12.4	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)