

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: P555104

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-93-84-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: P555104
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-93-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

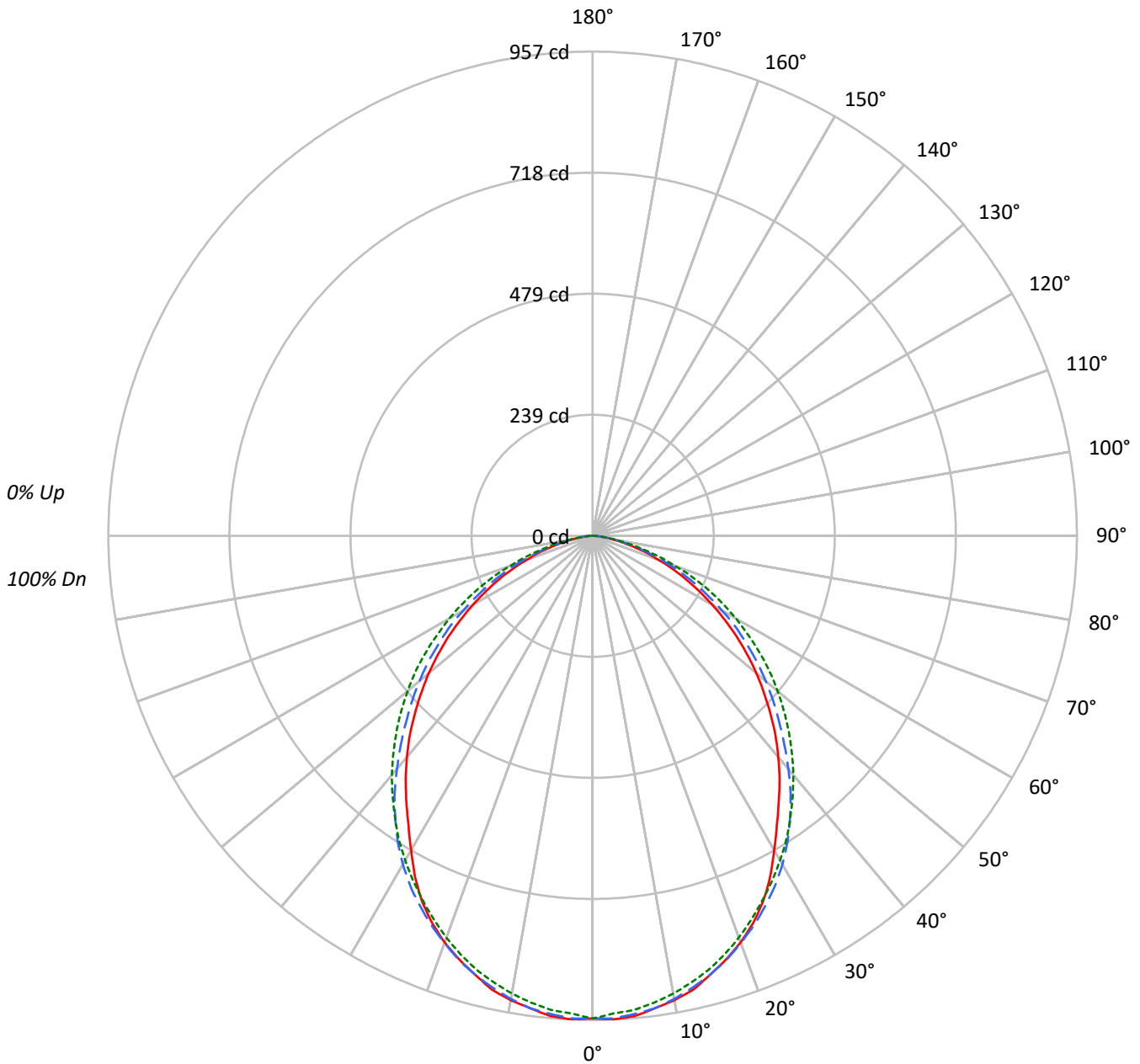
Lumens per Lamp: N/A
Luminaire Lumens: 2206.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555104

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-93-84-EDD-90

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°	5134	5134	5134
5°	5148	5126	5083
10°	5093	5080	5022
15°	5003	5003	4946
20°	4897	4904	4841
25°	4736	4795	4719
30°	4460	4660	4603
35°	4214	4467	4474
40°	4010	4226	4336
45°	3780	3970	4173
50°	3538	3741	3996
55°	3263	3480	3780
60°	2940	3175	3515
65°	2595	2823	3198
70°	2162	2404	2716
75°	1699	1921	2127
80°	1215	1351	1500
85°	790	790	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	4.1
10°-20°	252.3	11.4
20°-30°	368.8	16.7
30°-40°	418.6	19.0
40°-50°	404.1	18.3
50°-60°	333.3	15.1
60°-70°	222.0	10.1
70°-80°	99.3	4.5
80°-90°	17.8	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°	710.9	32.2
0°-40°	1129.5	51.2
0°-60°	1866.9	84.6
0°-90°	2206.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2206.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	953	953	949	944	941	90
15°	898	900	898	894	888	253
25°	798	804	807	802	795	365
35°	641	650	680	684	681	402
45°	497	505	522	545	548	383
55°	348	354	371	391	403	310
65°	204	209	222	238	251	202
75°	82	86	92	97	102	89
85°	13	13	13	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	954.0	954.0	954.0	954.0	954.0
2.5°	956.6	957.0	954.8	948.9	945.2
5°	952.9	952.6	948.9	943.8	940.8
7.5°	942.3	943.0	941.9	934.6	930.6
10°	932.0	932.4	929.5	923.6	918.9
12.5°	918.9	918.5	914.5	911.5	903.8
15°	898.0	900.2	898.0	893.9	887.7
17.5°	877.8	877.8	879.3	872.3	867.5
20°	855.1	856.2	856.2	850.7	845.2
22.5°	828.7	832.0	833.1	827.2	820.6
25°	797.5	803.8	807.4	801.6	794.6
27.5°	759.8	769.3	780.3	775.9	768.2
30°	717.6	731.6	749.9	746.2	740.7
32.5°	677.7	691.6	716.9	715.4	712.5
35°	641.4	650.2	679.9	683.6	681.0
37.5°	606.9	615.0	642.9	651.3	649.1
40°	570.7	579.5	601.5	616.5	617.2
42.5°	534.7	543.2	561.1	582.8	582.8
45°	496.6	505.1	521.6	545.4	548.3
47.5°	459.2	468.0	484.2	508.0	512.8
50°	422.6	430.7	446.8	469.9	477.2
52.5°	384.5	393.3	409.0	430.3	440.9
55°	347.8	353.7	370.9	391.4	402.8
57.5°	309.7	315.2	334.6	352.2	363.9
60°	273.1	280.0	295.0	313.0	326.6
62.5°	237.9	245.2	258.0	273.8	289.2
65°	203.8	209.3	221.7	237.5	251.1
67.5°	170.8	175.6	188.0	199.0	213.3
70°	137.4	143.7	152.8	163.5	172.6
72.5°	110.7	113.3	120.9	128.6	138.2
75°	81.7	86.1	92.4	96.8	102.3
77.5°	58.6	61.2	64.9	68.5	73.7
80°	39.2	40.3	43.6	44.3	48.4
82.5°	23.8	24.6	25.3	25.7	27.1
85°	12.8	12.8	12.8	12.1	12.1
87.5°	7.3	7.3	6.2	5.1	3.7
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)