

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: P555095

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-82-87-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: P555095
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-82-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

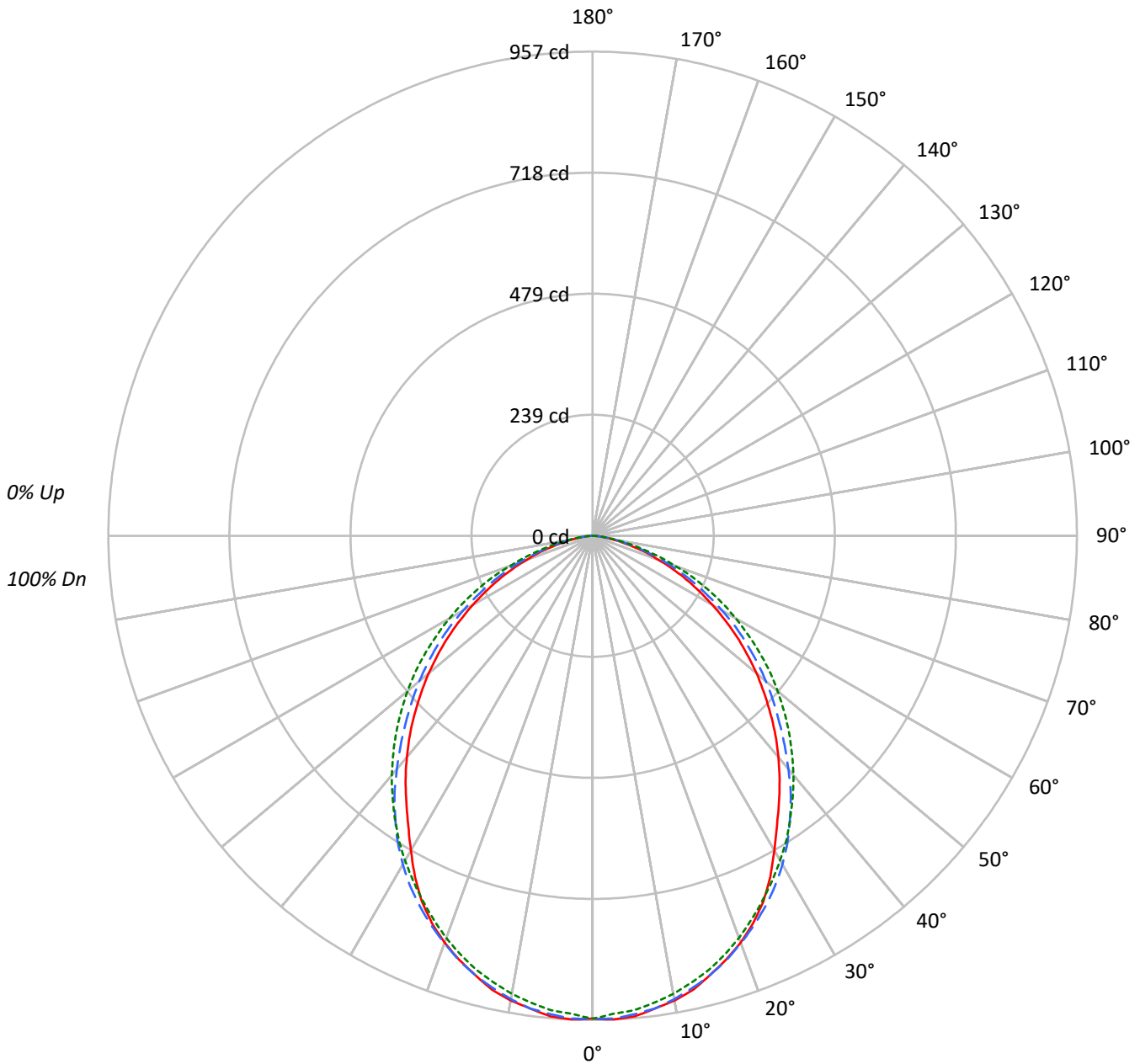
Lumens per Lamp: N/A
Luminaire Lumens: 2207.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555095

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-82-87-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555095

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-82-87-EDD

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°	5137	5137	5137
5°	5151	5129	5085
10°	5096	5082	5024
15°	5006	5006	4948
20°	4900	4906	4843
25°	4738	4797	4721
30°	4462	4662	4606
35°	4216	4469	4476
40°	4011	4227	4338
45°	3782	3972	4176
50°	3540	3743	3997
55°	3265	3482	3781
60°	2941	3178	3517
65°	2597	2825	3199
70°	2164	2406	2718
75°	1701	1921	2127
80°	1215	1351	1500
85°	790	790	747



TEST NUMBER: P555095

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-82-87-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	4.1
10°-20°	252.5	11.4
20°-30°	368.9	16.7
30°-40°	418.8	19.0
40°-50°	404.3	18.3
50°-60°	333.5	15.1
60°-70°	222.1	10.1
70°-80°	99.4	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°	711.3	32.2
0°-40°	1130.0	51.2
0°-60°	1867.8	84.6
0°-90°	2207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2207.0	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	901	898	894	888	253
25°	798	804	808	802	795	365
35°	642	650	680	684	681	402
45°	497	505	522	546	549	383
55°	348	354	371	392	403	311
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	



TEST NUMBER: P555095

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-82-87-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	954.5	954.5	954.5	954.5	954.5
2.5°	957.0	957.4	955.2	949.3	945.7
5°	953.4	953.0	949.3	944.2	941.3
7.5°	942.7	943.5	942.4	935.0	931.0
10°	932.5	932.8	929.9	924.0	919.3
12.5°	919.3	918.9	914.9	911.9	904.2
15°	898.4	900.6	898.4	894.3	888.1
17.5°	878.2	878.2	879.7	872.7	867.9
20°	855.5	856.6	856.6	851.1	845.6
22.5°	829.1	832.4	833.5	827.6	821.0
25°	797.9	804.1	807.8	801.9	795.0
27.5°	760.1	769.7	780.7	776.3	768.6
30°	718.0	731.9	750.2	746.6	741.1
32.5°	678.0	691.9	717.2	715.8	712.8
35°	641.7	650.5	680.2	683.9	681.3
37.5°	607.2	615.3	643.2	651.6	649.4
40°	570.9	579.7	601.7	616.8	617.5
42.5°	535.0	543.4	561.4	583.0	583.0
45°	496.9	505.3	521.8	545.6	548.6
47.5°	459.5	468.3	484.4	508.2	513.0
50°	422.8	430.9	447.0	470.1	477.4
52.5°	384.6	393.4	409.2	430.5	441.1
55°	348.0	353.8	371.1	391.6	403.0
57.5°	309.8	315.3	334.8	352.4	364.1
60°	273.2	280.1	295.2	313.1	326.7
62.5°	238.0	245.3	258.1	273.9	289.3
65°	203.9	209.4	221.8	237.6	251.2
67.5°	170.9	175.6	188.1	199.1	213.4
70°	137.5	143.7	152.9	163.5	172.7
72.5°	110.7	113.3	121.0	128.7	138.2
75°	81.8	86.2	92.4	96.8	102.3
77.5°	58.7	61.2	64.9	68.6	73.7
80°	39.2	40.3	43.6	44.4	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)