

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: P555579

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-80-94-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: P555579
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-LD4-3HI-50-UNV-80-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

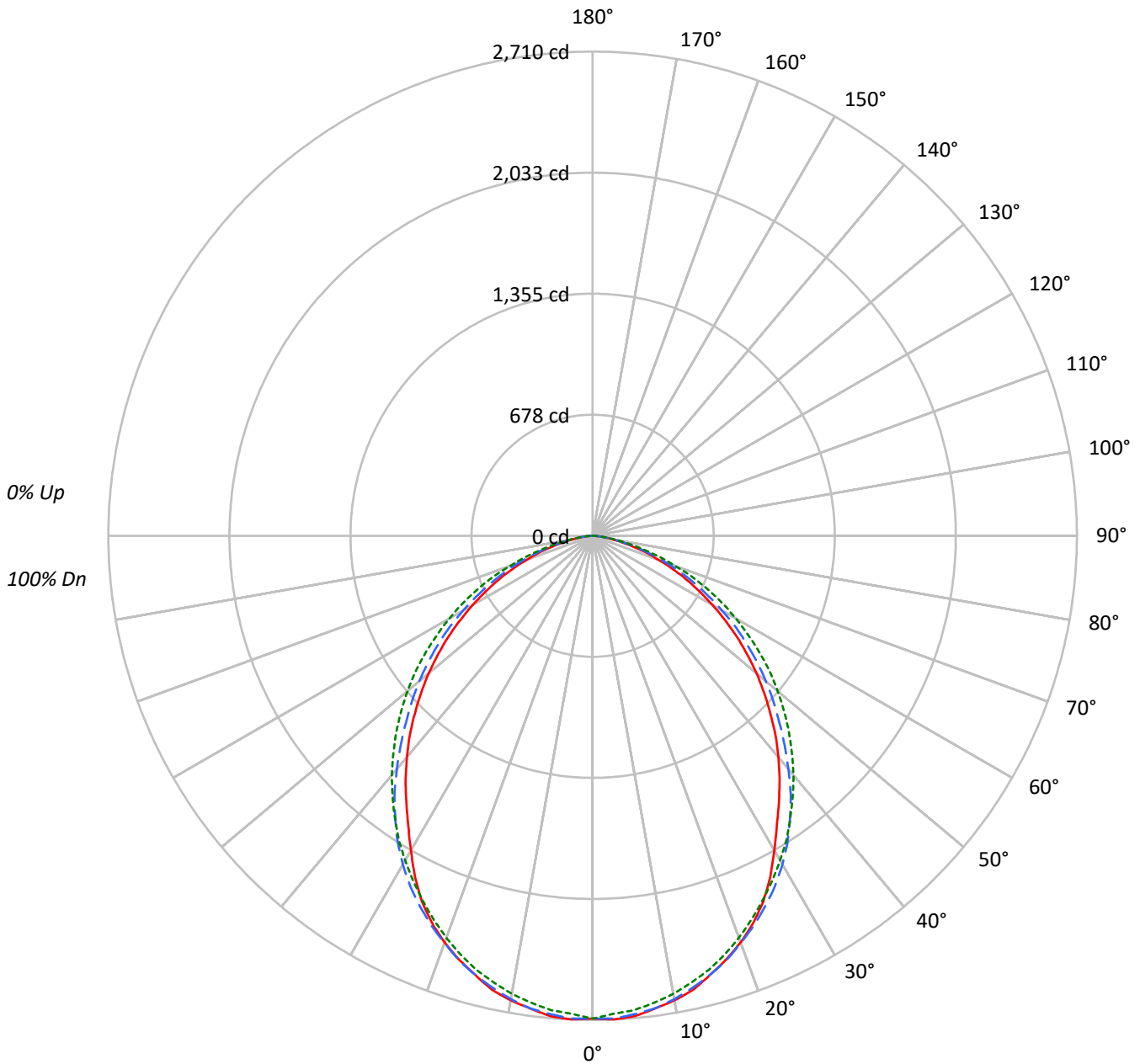
Lumens per Lamp: N/A
Luminaire Lumens: 6249.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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: P555579

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-80-94-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555579

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-80-94-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°	14545	14545	14545
5°	14584	14522	14399
10°	14429	14389	14225
15°	14173	14173	14011
20°	13873	13891	13712
25°	13416	13582	13367
30°	12634	13201	13040
35°	11937	12653	12674
40°	11357	11970	12284
45°	10707	11245	11822
50°	10023	10597	11318
55°	9245	9859	10706
60°	8326	8996	9958
65°	7352	7999	9057
70°	6126	6812	7695
75°	4814	5440	6024
80°	3443	3831	4246
85°	2242	2242	2118



TEST NUMBER: P555579

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-80-94-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.5	4.1
10°-20°	714.8	11.4
20°-30°	1044.6	16.7
30°-40°	1185.7	19.0
40°-50°	1144.6	18.3
50°-60°	944.2	15.1
60°-70°	628.8	10.1
70°-80°	281.4	4.5
80°-90°	50.3	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°	2013.9	32.2
0°-40°	3199.6	51.2
0°-60°	5288.5	84.6
0°-90°	6249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6249.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2702	2702	2702	2702	2702	
5°	2699	2698	2688	2674	2665	255
15°	2544	2550	2544	2532	2515	717
25°	2259	2277	2287	2271	2251	1035
35°	1817	1842	1926	1936	1929	1138
45°	1407	1431	1477	1545	1553	1085
55°	985	1002	1051	1109	1141	879
65°	577	593	628	673	711	572
75°	232	244	262	274	290	253
85°	36	36	36	34	34	49
90°	0	0	0	0	0	



TEST NUMBER: P555579

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-80-94-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2702.5	2702.5	2702.5	2702.5	2702.5
2.5°	2709.8	2710.8	2704.6	2688.0	2677.6
5°	2699.4	2698.4	2688.0	2673.5	2665.2
7.5°	2669.3	2671.4	2668.3	2647.5	2636.1
10°	2640.2	2641.3	2633.0	2616.4	2602.9
12.5°	2602.9	2601.8	2590.4	2582.1	2560.3
15°	2543.7	2549.9	2543.7	2532.3	2514.6
17.5°	2486.6	2486.6	2490.7	2471.0	2457.5
20°	2422.2	2425.3	2425.3	2409.7	2394.2
22.5°	2347.5	2356.8	2359.9	2343.3	2324.6
25°	2259.2	2276.9	2287.2	2270.6	2250.9
27.5°	2152.3	2179.3	2210.4	2197.9	2176.1
30°	2032.9	2072.3	2124.2	2113.9	2098.3
32.5°	1919.7	1959.2	2030.8	2026.6	2018.3
35°	1816.9	1841.8	1925.9	1936.3	1929.0
37.5°	1719.3	1742.2	1821.1	1844.9	1838.7
40°	1616.5	1641.5	1703.7	1746.3	1748.4
42.5°	1514.8	1538.7	1589.5	1650.8	1650.8
45°	1406.8	1430.7	1477.4	1544.9	1553.2
47.5°	1300.9	1325.8	1371.5	1439.0	1452.5
50°	1197.1	1219.9	1265.6	1331.0	1351.8
52.5°	1089.1	1114.0	1158.7	1218.9	1249.0
55°	985.3	1001.9	1050.7	1108.8	1141.0
57.5°	877.3	892.9	947.9	997.7	1031.0
60°	773.5	793.2	835.8	886.7	925.1
62.5°	673.8	694.6	730.9	775.6	819.2
65°	577.3	592.8	628.1	672.8	711.2
67.5°	483.8	497.3	532.6	563.8	604.3
70°	389.3	407.0	432.9	463.1	489.0
72.5°	313.5	320.8	342.6	364.4	391.4
75°	231.5	244.0	261.6	274.1	289.7
77.5°	166.1	173.4	183.8	194.2	208.7
80°	111.1	114.2	123.6	125.6	137.0
82.5°	67.5	69.6	71.6	72.7	76.8
85°	36.3	36.3	36.3	34.3	34.3
87.5°	20.8	20.8	17.7	14.5	10.4
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)