

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: P555611

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-82-94-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: P555611  
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-82-94-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDES  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

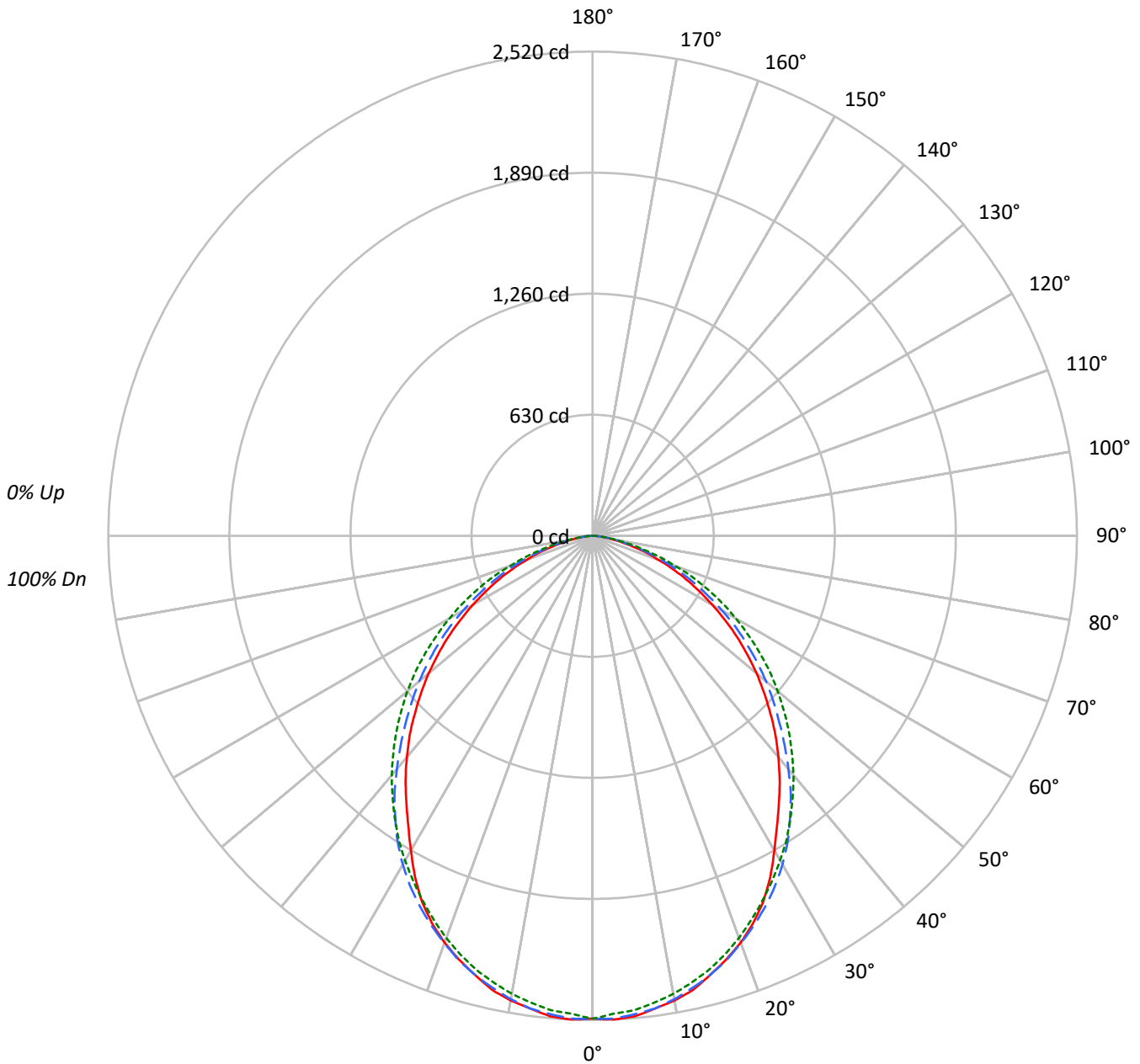
Lumens per Lamp: N/A  
Luminaire Lumens: 5812.0 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.8  
Input Voltage (V): NR  
Input Current (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

TEST NUMBER: P555611

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-82-94-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P555611

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-82-94-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°	13528	13528	13528
5°	13564	13506	13392
10°	13420	13383	13230
15°	13182	13182	13031
20°	12903	12919	12753
25°	12478	12633	12432
30°	11750	12278	12128
35°	11103	11768	11788
40°	10563	11133	11424
45°	9959	10459	10995
50°	9322	9856	10527
55°	8599	9169	9957
60°	7744	8367	9261
65°	6837	7440	8424
70°	5698	6337	7157
75°	4477	5059	5602
80°	3202	3561	3952
85°	2087	2087	1970



TEST NUMBER: P555611

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-82-94-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.7	4.1
10°-20°	664.8	11.4
20°-30°	971.5	16.7
30°-40°	1102.8	19.0
40°-50°	1064.6	18.3
50°-60°	878.2	15.1
60°-70°	584.8	10.1
70°-80°	261.7	4.5
80°-90°	46.8	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°	1873.0	32.2
0°-40°	2975.8	51.2
0°-60°	4918.6	84.6
0°-90°	5812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5812.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2514	2514	2514	2514	2514	
5°	2511	2510	2500	2486	2479	238
15°	2366	2372	2366	2355	2339	667
25°	2101	2118	2127	2112	2094	962
35°	1690	1713	1791	1801	1794	1059
45°	1308	1331	1374	1437	1445	1010
55°	916	932	977	1031	1061	818
65°	537	551	584	626	662	532
75°	215	227	243	255	269	235
85°	34	34	34	32	32	46
90°	0	0	0	0	0	



TEST NUMBER: P555611

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-82-94-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2513.5	2513.5	2513.5	2513.5	2513.5
2.5°	2520.3	2521.3	2515.5	2500.0	2490.4
5°	2510.6	2509.7	2500.0	2486.5	2478.8
7.5°	2482.6	2484.6	2481.7	2462.4	2451.7
10°	2455.6	2456.6	2448.8	2433.4	2420.8
12.5°	2420.8	2419.9	2409.3	2401.5	2381.2
15°	2365.8	2371.6	2365.8	2355.2	2338.8
17.5°	2312.7	2312.7	2316.6	2298.2	2285.7
20°	2252.8	2255.7	2255.7	2241.2	2226.7
22.5°	2183.3	2192.0	2194.9	2179.4	2162.0
25°	2101.2	2117.6	2127.3	2111.8	2093.5
27.5°	2001.8	2026.9	2055.8	2044.2	2024.0
30°	1890.7	1927.4	1975.7	1966.0	1951.5
32.5°	1785.5	1822.1	1888.8	1884.9	1877.2
35°	1689.9	1713.0	1791.2	1800.9	1794.1
37.5°	1599.1	1620.3	1693.7	1715.9	1710.1
40°	1503.5	1526.7	1584.6	1624.2	1626.1
42.5°	1408.9	1431.1	1478.4	1535.4	1535.4
45°	1308.4	1330.6	1374.1	1436.9	1444.6
47.5°	1209.9	1233.1	1275.6	1338.4	1350.9
50°	1113.4	1134.6	1177.1	1237.9	1257.3
52.5°	1012.9	1036.1	1077.6	1133.7	1161.7
55°	916.4	931.8	977.2	1031.3	1061.2
57.5°	816.0	830.4	881.6	928.0	958.9
60°	719.4	737.7	777.3	824.6	860.4
62.5°	626.7	646.0	679.8	721.3	761.9
65°	536.9	551.4	584.2	625.7	661.5
67.5°	450.0	462.5	495.4	524.3	562.0
70°	362.1	378.5	402.7	430.7	454.8
72.5°	291.6	298.4	318.7	338.9	364.0
75°	215.3	226.9	243.3	254.9	269.4
77.5°	154.5	161.3	170.9	180.6	194.1
80°	103.3	106.2	114.9	116.8	127.5
82.5°	62.8	64.7	66.6	67.6	71.5
85°	33.8	33.8	33.8	31.9	31.9
87.5°	19.3	19.3	16.4	13.5	9.7
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)