

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: P555626

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-93-94-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: P555626  
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-93-94-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

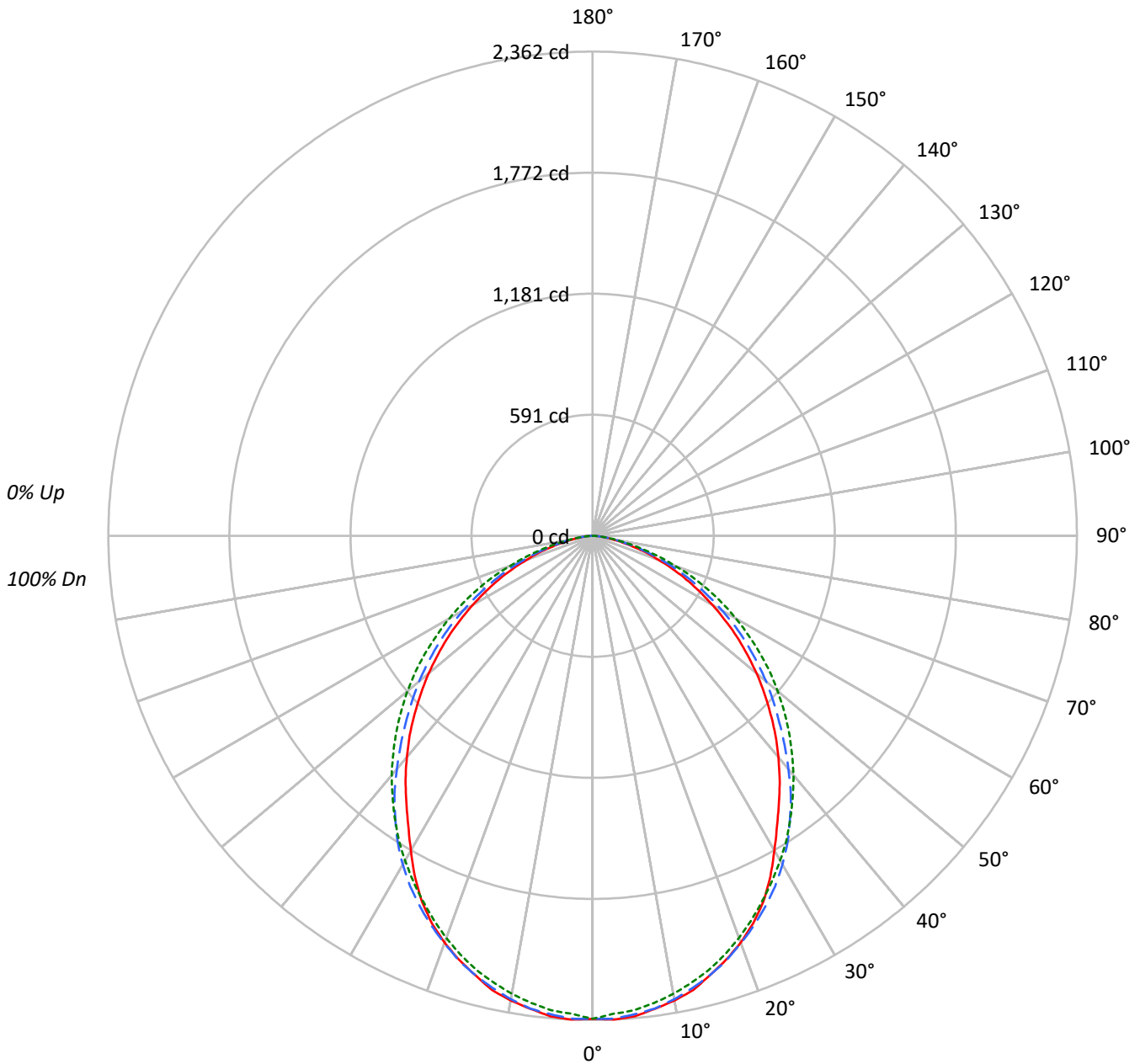
Lumens per Lamp: N/A  
Luminaire Lumens: 5448.0 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P555626

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-93-94-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P555626

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-93-94-EDD-90

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12680	12680	12680
5°	12714	12660	12553
10°	12579	12545	12401
15°	12356	12356	12215
20°	12094	12110	11955
25°	11696	11842	11653
30°	11014	11509	11368
35°	10407	11032	11050
40°	9901	10436	10709
45°	9335	9803	10306
50°	8738	9239	9867
55°	8060	8595	9334
60°	7258	7844	8681
65°	6409	6974	7896
70°	5341	5939	6708
75°	4196	4743	5251
80°	3003	3338	3704
85°	1958	1958	1846



TEST NUMBER: P555626

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-93-94-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.8	4.1
10°-20°	623.2	11.4
20°-30°	910.7	16.7
30°-40°	1033.7	19.0
40°-50°	997.9	18.3
50°-60°	823.2	15.1
60°-70°	548.2	10.1
70°-80°	245.3	4.5
80°-90°	43.9	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°	1755.7	32.2
0°-40°	2789.5	51.2
0°-60°	4610.6	84.6
0°-90°	5448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5448.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2356	2356	2356	2356	2356	
5°	2353	2352	2343	2331	2324	223
15°	2218	2223	2218	2208	2192	625
25°	1970	1985	1994	1980	1962	902
35°	1584	1606	1679	1688	1682	992
45°	1226	1247	1288	1347	1354	946
55°	859	874	916	967	995	767
65°	503	517	548	586	620	499
75°	202	213	228	239	252	221
85°	32	32	32	30	30	43
90°	0	0	0	0	0	



TEST NUMBER: P555626

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-93-94-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2356.1	2356.1	2356.1	2356.1	2356.1
2.5°	2362.5	2363.4	2357.9	2343.4	2334.4
5°	2353.4	2352.5	2343.4	2330.8	2323.5
7.5°	2327.2	2329.0	2326.2	2308.1	2298.2
10°	2301.8	2302.7	2295.5	2281.0	2269.2
12.5°	2269.2	2268.3	2258.4	2251.1	2232.1
15°	2217.6	2223.1	2217.6	2207.7	2192.3
17.5°	2167.8	2167.8	2171.5	2154.3	2142.5
20°	2111.7	2114.4	2114.4	2100.9	2087.3
22.5°	2046.6	2054.7	2057.4	2042.9	2026.6
25°	1969.6	1985.0	1994.1	1979.6	1962.4
27.5°	1876.4	1899.9	1927.1	1916.2	1897.2
30°	1772.3	1806.7	1851.9	1842.9	1829.3
32.5°	1673.6	1708.0	1770.5	1766.9	1759.6
35°	1584.0	1605.7	1679.1	1688.1	1681.8
37.5°	1498.9	1518.9	1587.6	1608.5	1603.0
40°	1409.3	1431.1	1485.4	1522.5	1524.3
42.5°	1320.6	1341.4	1385.8	1439.2	1439.2
45°	1226.5	1247.3	1288.0	1346.9	1354.1
47.5°	1134.2	1155.9	1195.7	1254.5	1266.3
50°	1043.6	1063.6	1103.4	1160.4	1178.5
52.5°	949.5	971.2	1010.2	1062.7	1088.9
55°	859.0	873.5	916.0	966.7	994.8
57.5°	764.9	778.4	826.4	869.9	898.8
60°	674.3	691.5	728.7	773.0	806.5
62.5°	587.4	605.5	637.2	676.2	714.2
65°	503.3	516.8	547.6	586.5	620.0
67.5°	421.8	433.6	464.3	491.5	526.8
70°	339.4	354.8	377.4	403.7	426.3
72.5°	273.4	279.7	298.7	317.7	341.2
75°	201.8	212.7	228.1	239.0	252.5
77.5°	144.8	151.2	160.2	169.3	181.9
80°	96.9	99.6	107.7	109.5	119.5
82.5°	58.8	60.6	62.5	63.4	67.0
85°	31.7	31.7	31.7	29.9	29.9
87.5°	18.1	18.1	15.4	12.7	9.1
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)