

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: P555601

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-82-84-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: P555601
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-82-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

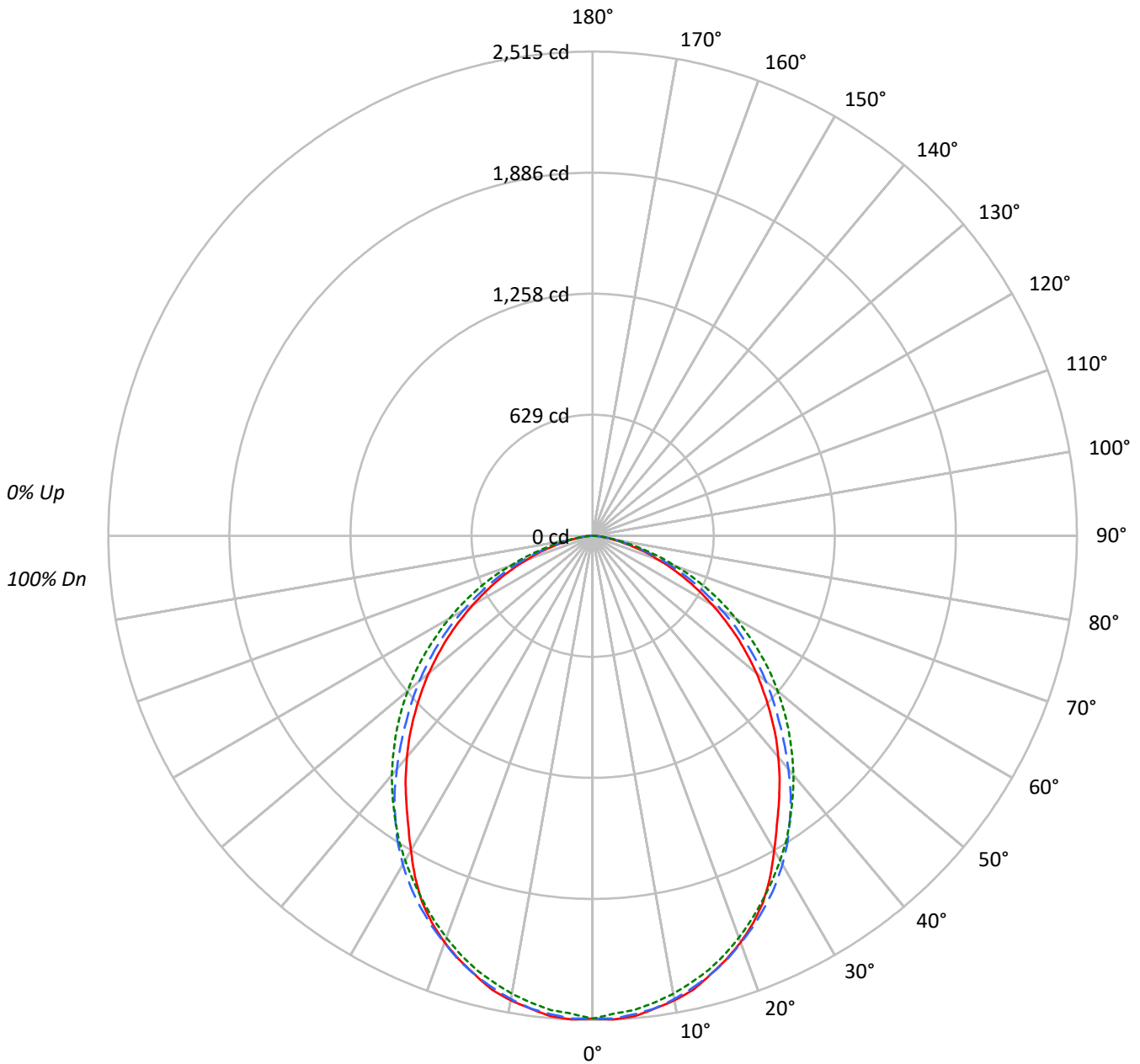
Lumens per Lamp: N/A
Luminaire Lumens: 5799.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555601

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-82-84-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555601

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-82-84-EDD

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°	13497	13497	13497
5°	13533	13476	13362
10°	13390	13353	13200
15°	13152	13152	13002
20°	12874	12891	12725
25°	12450	12604	12404
30°	11724	12251	12101
35°	11078	11742	11761
40°	10539	11108	11399
45°	9936	10435	10971
50°	9301	9834	10503
55°	8579	9149	9936
60°	7726	8348	9241
65°	6822	7423	8405
70°	5685	6323	7141
75°	4469	5049	5590
80°	3195	3555	3942
85°	2081	2081	1964



TEST NUMBER: P555601

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-82-84-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.1	4.1
10°-20°	663.4	11.4
20°-30°	969.4	16.7
30°-40°	1100.3	19.0
40°-50°	1062.2	18.3
50°-60°	876.3	15.1
60°-70°	583.5	10.1
70°-80°	261.1	4.5
80°-90°	46.7	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°	1868.9	32.2
0°-40°	2969.2	51.2
0°-60°	4907.7	84.6
0°-90°	5799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2508	2508	2508	2508	2508	
5°	2505	2504	2494	2481	2473	237
15°	2360	2366	2360	2350	2334	665
25°	2096	2113	2122	2107	2089	960
35°	1686	1709	1787	1797	1790	1056
45°	1306	1328	1371	1434	1441	1007
55°	914	930	975	1029	1059	816
65°	536	550	583	624	660	531
75°	215	226	243	254	269	235
85°	34	34	34	32	32	45
90°	0	0	0	0	0	



TEST NUMBER: P555601

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-82-84-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2507.9	2507.9	2507.9	2507.9	2507.9
2.5°	2514.7	2515.6	2509.8	2494.4	2484.8
5°	2505.0	2504.1	2494.4	2480.9	2473.2
7.5°	2477.1	2479.0	2476.1	2456.9	2446.3
10°	2450.1	2451.1	2443.4	2427.9	2415.4
12.5°	2415.4	2414.5	2403.9	2396.2	2375.9
15°	2360.5	2366.3	2360.5	2349.9	2333.5
17.5°	2307.5	2307.5	2311.4	2293.1	2280.5
20°	2247.8	2250.7	2250.7	2236.2	2221.8
22.5°	2178.4	2187.1	2190.0	2174.6	2157.2
25°	2096.5	2112.9	2122.5	2107.1	2088.8
27.5°	1997.3	2022.3	2051.2	2039.7	2019.4
30°	1886.5	1923.1	1971.3	1961.6	1947.2
32.5°	1781.5	1818.1	1884.6	1880.7	1873.0
35°	1686.1	1709.2	1787.2	1796.9	1790.1
37.5°	1595.5	1616.7	1689.9	1712.1	1706.3
40°	1500.1	1523.2	1581.1	1620.6	1622.5
42.5°	1405.7	1427.9	1475.1	1531.9	1531.9
45°	1305.5	1327.7	1371.0	1433.6	1441.4
47.5°	1207.2	1230.4	1272.7	1335.4	1347.9
50°	1110.9	1132.1	1174.5	1235.2	1254.4
52.5°	1010.7	1033.8	1075.2	1131.1	1159.1
55°	914.3	929.8	975.0	1029.0	1058.9
57.5°	814.1	828.6	879.6	925.9	956.7
60°	717.8	736.1	775.6	822.8	858.5
62.5°	625.3	644.6	678.3	719.7	760.2
65°	535.7	550.1	582.9	624.3	660.0
67.5°	449.0	461.5	494.3	523.2	560.7
70°	361.3	377.7	401.8	429.7	453.8
72.5°	291.0	297.7	317.9	338.2	363.2
75°	214.9	226.4	242.8	254.4	268.8
77.5°	154.2	160.9	170.5	180.2	193.7
80°	103.1	106.0	114.7	116.6	127.2
82.5°	62.6	64.6	66.5	67.4	71.3
85°	33.7	33.7	33.7	31.8	31.8
87.5°	19.3	19.3	16.4	13.5	9.6
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)