

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: P555866

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-82-94-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: P555866
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-LD4-3LO-50-UNV-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC 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

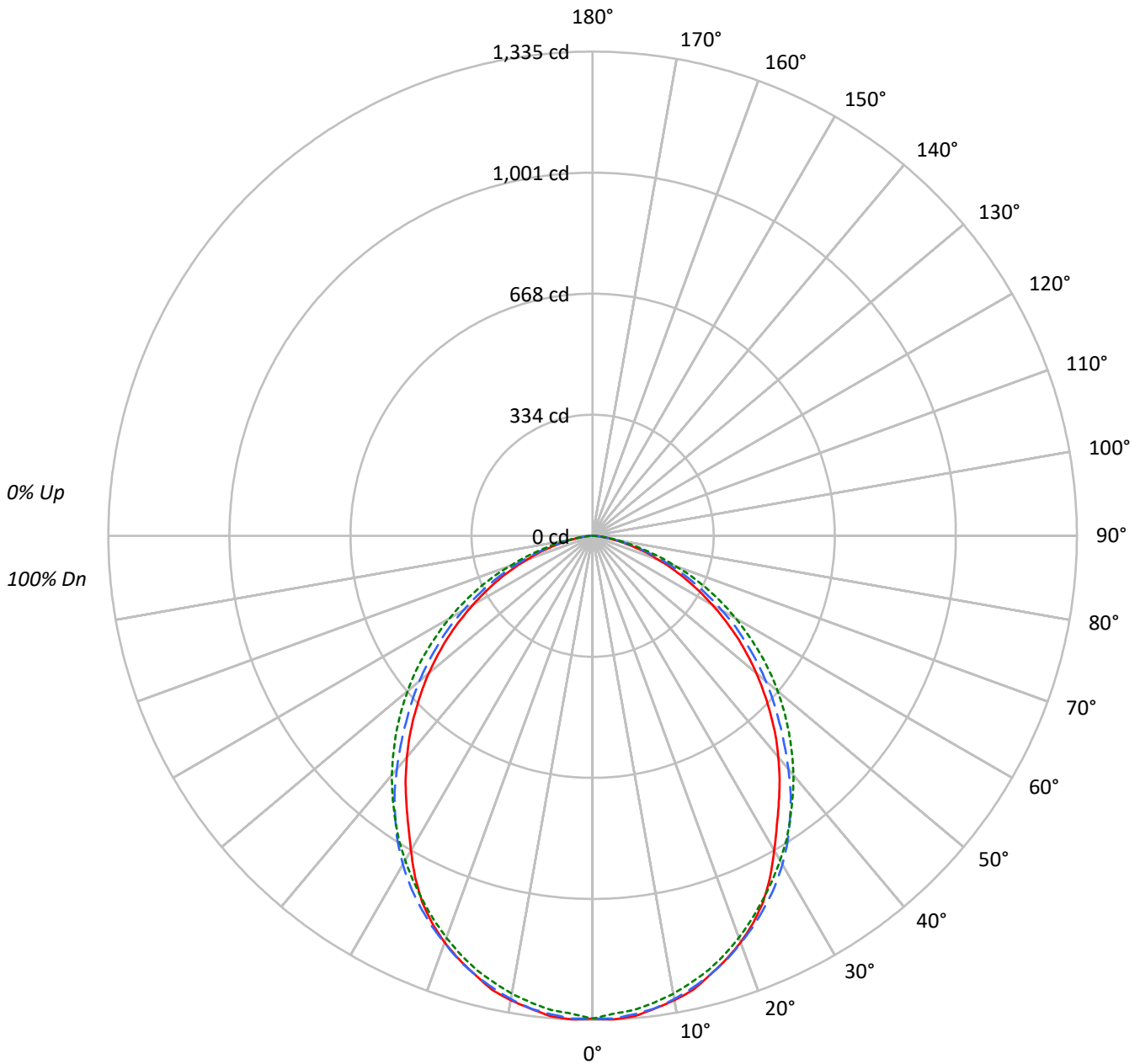
Lumens per Lamp: N/A
Luminaire Lumens: 3078.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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: P555866

CATALOG NUMBER: FUSL-12-2-LD4-3LO-50-UNV-82-94-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555866

CATALOG NUMBER: FUSL-12-2-LD4-3LO-50-UNV-82-94-EDD-90

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	7164	7164	7164
5°	7183	7153	7092
10°	7107	7088	7007
15°	6981	6981	6901
20°	6833	6842	6754
25°	6608	6690	6584
30°	6223	6502	6423
35°	5880	6232	6243
40°	5594	5896	6050
45°	5274	5539	5823
50°	4937	5220	5575
55°	4554	4856	5273
60°	4101	4432	4905
65°	3621	3940	4461
70°	3018	3356	3791
75°	2371	2680	2967
80°	1695	1888	2092
85°	1105	1105	1044



TEST NUMBER: P555866

CATALOG NUMBER: FUSL-12-2-LD4-3LO-50-UNV-82-94-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	4.1
10°-20°	352.1	11.4
20°-30°	514.5	16.7
30°-40°	584.0	19.0
40°-50°	563.8	18.3
50°-60°	465.1	15.1
60°-70°	309.7	10.1
70°-80°	138.6	4.5
80°-90°	24.8	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°	992.0	32.2
0°-40°	1576.0	51.2
0°-60°	2604.9	84.6
0°-90°	3078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1331	1331	1331	1331	1331	
5°	1330	1329	1324	1317	1313	126
15°	1253	1256	1253	1247	1239	353
25°	1113	1122	1127	1118	1109	510
35°	895	907	949	954	950	561
45°	693	705	728	761	765	535
55°	485	494	518	546	562	433
65°	284	292	309	331	350	282
75°	114	120	129	135	143	125
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



TEST NUMBER: P555866

CATALOG NUMBER: FUSL-12-2-LD4-3LO-50-UNV-82-94-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1331.2	1331.2	1331.2	1331.2	1331.2
2.5°	1334.7	1335.2	1332.2	1324.0	1318.9
5°	1329.6	1329.1	1324.0	1316.8	1312.7
7.5°	1314.8	1315.8	1314.3	1304.1	1298.4
10°	1300.5	1301.0	1296.9	1288.7	1282.1
12.5°	1282.1	1281.6	1275.9	1271.8	1261.1
15°	1252.9	1256.0	1252.9	1247.3	1238.6
17.5°	1224.8	1224.8	1226.8	1217.1	1210.5
20°	1193.1	1194.6	1194.6	1186.9	1179.3
22.5°	1156.3	1160.9	1162.4	1154.2	1145.0
25°	1112.8	1121.5	1126.6	1118.4	1108.7
27.5°	1060.1	1073.4	1088.8	1082.6	1071.9
30°	1001.3	1020.7	1046.3	1041.2	1033.5
32.5°	945.6	965.0	1000.3	998.2	994.1
35°	894.9	907.2	948.6	953.7	950.2
37.5°	846.9	858.1	897.0	908.7	905.7
40°	796.2	808.5	839.2	860.2	861.2
42.5°	746.1	757.9	782.9	813.1	813.1
45°	692.9	704.7	727.7	761.0	765.0
47.5°	640.8	653.0	675.5	708.8	715.4
50°	589.6	600.9	623.4	655.6	665.8
52.5°	536.5	548.7	570.7	600.4	615.2
55°	485.3	493.5	517.5	546.2	562.0
57.5°	432.1	439.8	466.9	491.4	507.8
60°	381.0	390.7	411.7	436.7	455.7
62.5°	331.9	342.1	360.0	382.0	403.5
65°	284.3	292.0	309.4	331.4	350.3
67.5°	238.3	245.0	262.3	277.7	297.6
70°	191.8	200.5	213.3	228.1	240.9
72.5°	154.4	158.0	168.8	179.5	192.8
75°	114.0	120.2	128.9	135.0	142.7
77.5°	81.8	85.4	90.5	95.6	102.8
80°	54.7	56.3	60.9	61.9	67.5
82.5°	33.2	34.3	35.3	35.8	37.8
85°	17.9	17.9	17.9	16.9	16.9
87.5°	10.2	10.2	8.7	7.2	5.1
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)