

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: P555851

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-81-94-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: P555851
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-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC 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

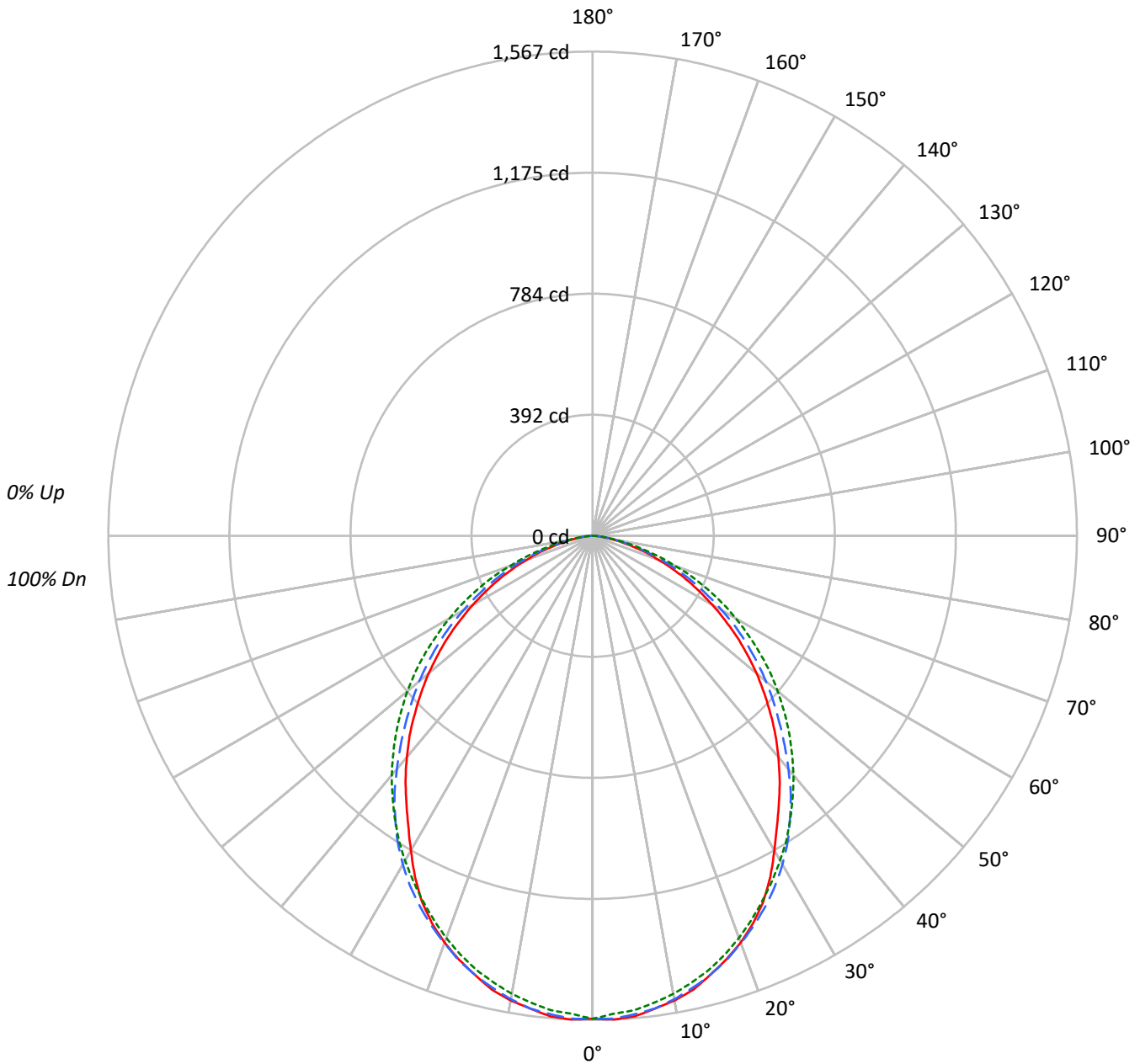
Lumens per Lamp: N/A
Luminaire Lumens: 3614.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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: P555851

CATALOG NUMBER: FUSL-12-2-LD4-3LO-50-UNV-81-94-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555851

CATALOG NUMBER: FUSL-12-2-LD4-3LO-50-UNV-81-94-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°	8412	8412	8412
5°	8434	8399	8327
10°	8344	8322	8226
15°	8197	8197	8103
20°	8023	8033	7930
25°	7759	7855	7731
30°	7306	7635	7541
35°	6904	7318	7330
40°	6568	6922	7104
45°	6193	6503	6837
50°	5797	6128	6546
55°	5347	5702	6192
60°	4815	5203	5759
65°	4251	4627	5238
70°	3544	3940	4450
75°	2784	3146	3483
80°	1990	2216	2458
85°	1297	1297	1223



TEST NUMBER: P555851

CATALOG NUMBER: FUSL-12-2-LD4-3LO-50-UNV-81-94-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	4.1
10°-20°	413.4	11.4
20°-30°	604.1	16.7
30°-40°	685.7	19.0
40°-50°	662.0	18.3
50°-60°	546.1	15.1
60°-70°	363.7	10.1
70°-80°	162.7	4.5
80°-90°	29.1	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°	1164.7	32.2
0°-40°	1850.4	51.2
0°-60°	3058.5	84.6
0°-90°	3614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1561	1561	1555	1546	1541	148
15°	1471	1475	1471	1464	1454	415
25°	1307	1317	1323	1313	1302	598
35°	1051	1065	1114	1120	1116	658
45°	814	827	854	894	898	628
55°	570	579	608	641	660	509
65°	334	343	363	389	411	331
75°	134	141	151	158	168	146
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



TEST NUMBER: P555851

CATALOG NUMBER: FUSL-12-2-LD4-3LO-50-UNV-81-94-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1563.0	1563.0	1563.0	1563.0	1563.0
2.5°	1567.2	1567.8	1564.2	1554.6	1548.6
5°	1561.2	1560.6	1554.6	1546.1	1541.3
7.5°	1543.7	1544.9	1543.1	1531.1	1524.5
10°	1526.9	1527.5	1522.7	1513.1	1505.3
12.5°	1505.3	1504.7	1498.1	1493.3	1480.7
15°	1471.1	1474.7	1471.1	1464.5	1454.3
17.5°	1438.1	1438.1	1440.5	1429.1	1421.3
20°	1400.8	1402.6	1402.6	1393.6	1384.6
22.5°	1357.6	1363.0	1364.8	1355.2	1344.4
25°	1306.6	1316.8	1322.8	1313.2	1301.8
27.5°	1244.7	1260.3	1278.4	1271.1	1258.5
30°	1175.7	1198.5	1228.5	1222.5	1213.5
32.5°	1110.2	1133.0	1174.5	1172.1	1167.3
35°	1050.8	1065.2	1113.8	1119.8	1115.6
37.5°	994.3	1007.5	1053.2	1067.0	1063.4
40°	934.9	949.3	985.3	1010.0	1011.2
42.5°	876.1	889.9	919.3	954.7	954.7
45°	813.6	827.4	854.4	893.5	898.3
47.5°	752.4	766.8	793.2	832.2	840.0
50°	692.3	705.5	731.9	769.8	781.8
52.5°	629.9	644.3	670.1	704.9	722.3
55°	569.8	579.4	607.7	641.3	659.9
57.5°	507.4	516.4	548.2	577.0	596.2
60°	447.3	458.7	483.4	512.8	535.0
62.5°	389.7	401.7	422.7	448.5	473.8
65°	333.8	342.9	363.3	389.1	411.3
67.5°	279.8	287.6	308.0	326.0	349.5
70°	225.2	235.4	250.4	267.8	282.8
72.5°	181.3	185.5	198.1	210.8	226.4
75°	133.9	141.1	151.3	158.5	167.5
77.5°	96.1	100.3	106.3	112.3	120.7
80°	64.2	66.0	71.5	72.7	79.3
82.5°	39.0	40.2	41.4	42.0	44.4
85°	21.0	21.0	21.0	19.8	19.8
87.5°	12.0	12.0	10.2	8.4	6.0
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)