

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: P555847

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-81-87-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: P555847
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-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

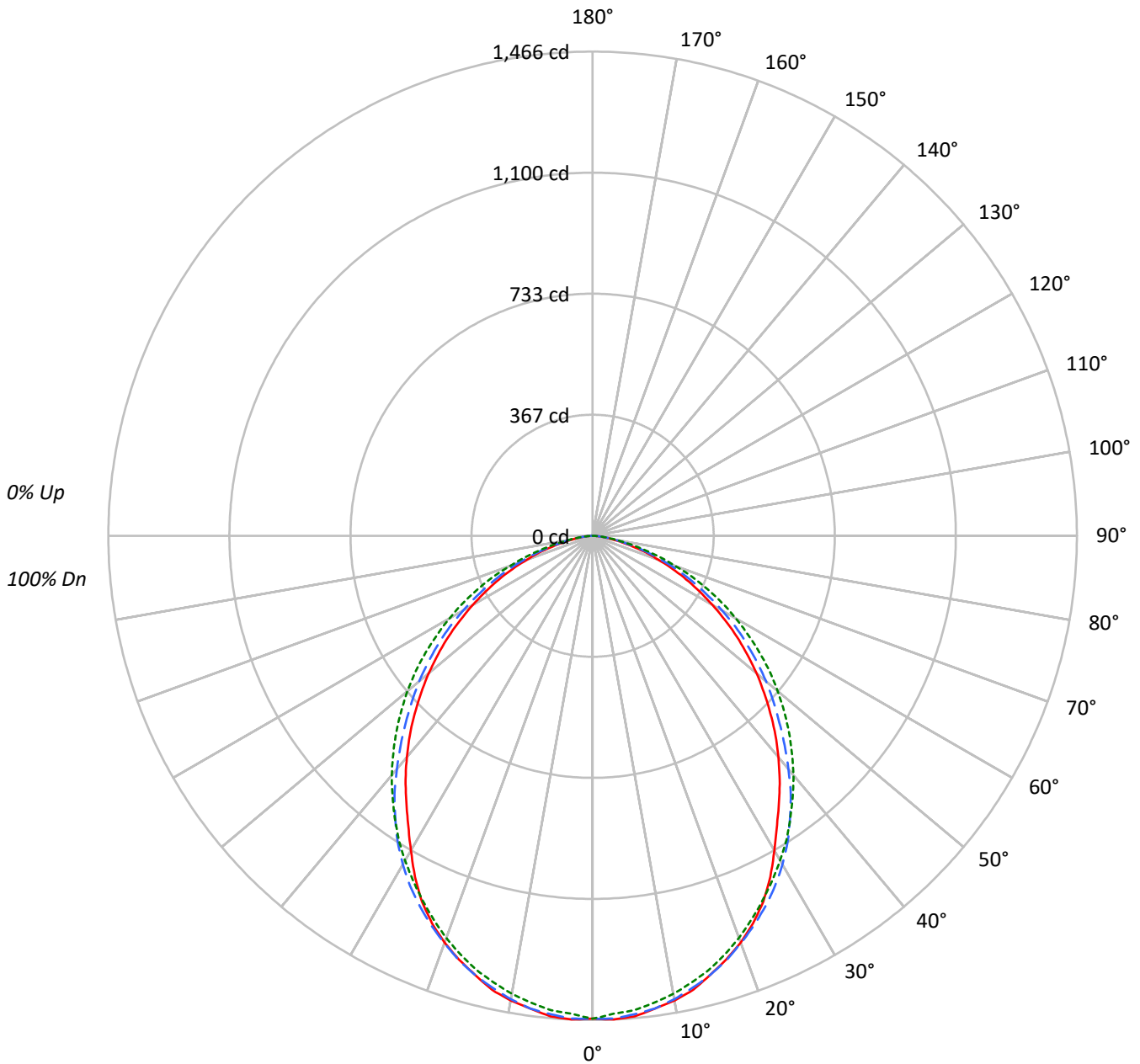
Lumens per Lamp: N/A
Luminaire Lumens: 3381.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555847

CATALOG NUMBER: FUSL-12-2-LD4-3LO-50-UNV-81-87-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555847

CATALOG NUMBER: FUSL-12-2-LD4-3LO-50-UNV-81-87-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°	7869	7869	7869
5°	7890	7857	7790
10°	7807	7785	7696
15°	7668	7668	7580
20°	7506	7515	7419
25°	7258	7349	7232
30°	6835	7142	7055
35°	6458	6846	6857
40°	6145	6476	6646
45°	5794	6084	6396
50°	5423	5734	6124
55°	5002	5334	5792
60°	4505	4867	5387
65°	3977	4327	4900
70°	3316	3685	4164
75°	2606	2944	3258
80°	1863	2070	2297
85°	1216	1216	1142



TEST NUMBER: P555847

CATALOG NUMBER: FUSL-12-2-LD4-3LO-50-UNV-81-87-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	4.1
10°-20°	386.8	11.4
20°-30°	565.2	16.7
30°-40°	641.5	19.0
40°-50°	619.3	18.3
50°-60°	510.9	15.1
60°-70°	340.2	10.1
70°-80°	152.2	4.5
80°-90°	27.2	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°	1089.6	32.2
0°-40°	1731.1	51.2
0°-60°	2861.3	84.6
0°-90°	3381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1460	1460	1454	1446	1442	138
15°	1376	1380	1376	1370	1360	388
25°	1222	1232	1238	1228	1218	560
35°	983	996	1042	1048	1044	616
45°	761	774	799	836	840	587
55°	533	542	568	600	617	476
65°	312	321	340	364	385	310
75°	125	132	142	148	157	137
85°	20	20	20	18	18	27
90°	0	0	0	0	0	



TEST NUMBER: P555847

CATALOG NUMBER: FUSL-12-2-LD4-3LO-50-UNV-81-87-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.2	1462.2	1462.2	1462.2	1462.2
2.5°	1466.1	1466.7	1463.3	1454.3	1448.7
5°	1460.5	1459.9	1454.3	1446.5	1442.0
7.5°	1444.2	1445.3	1443.7	1432.4	1426.2
10°	1428.5	1429.1	1424.6	1415.6	1408.3
12.5°	1408.3	1407.7	1401.5	1397.0	1385.2
15°	1376.2	1379.6	1376.2	1370.1	1360.5
17.5°	1345.4	1345.4	1347.6	1336.9	1329.6
20°	1310.5	1312.2	1312.2	1303.8	1295.4
22.5°	1270.1	1275.1	1276.8	1267.8	1257.7
25°	1222.3	1231.9	1237.5	1228.5	1217.8
27.5°	1164.5	1179.1	1195.9	1189.2	1177.4
30°	1099.9	1121.2	1149.3	1143.7	1135.3
32.5°	1038.6	1060.0	1098.8	1096.5	1092.0
35°	983.0	996.5	1042.0	1047.6	1043.7
37.5°	930.2	942.6	985.3	998.2	994.8
40°	874.6	888.1	921.8	944.8	946.0
42.5°	819.6	832.5	860.0	893.2	893.2
45°	761.2	774.1	799.3	835.9	840.4
47.5°	703.9	717.3	742.1	778.6	785.9
50°	647.7	660.0	684.8	720.1	731.4
52.5°	589.3	602.7	626.9	659.5	675.8
55°	533.1	542.1	568.5	599.9	617.3
57.5°	474.7	483.1	512.9	539.8	557.8
60°	418.5	429.2	452.2	479.7	500.5
62.5°	364.6	375.8	395.5	419.6	443.2
65°	312.3	320.8	339.8	364.0	384.8
67.5°	261.8	269.1	288.2	305.0	326.9
70°	210.7	220.2	234.2	250.5	264.6
72.5°	169.6	173.6	185.4	197.2	211.8
75°	125.3	132.0	141.6	148.3	156.7
77.5°	89.9	93.8	99.4	105.0	112.9
80°	60.1	61.8	66.8	68.0	74.1
82.5°	36.5	37.6	38.8	39.3	41.6
85°	19.7	19.7	19.7	18.5	18.5
87.5°	11.2	11.2	9.5	7.9	5.6
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)