

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: P555404

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-81-96-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: P555404
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-30-UNV-81-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

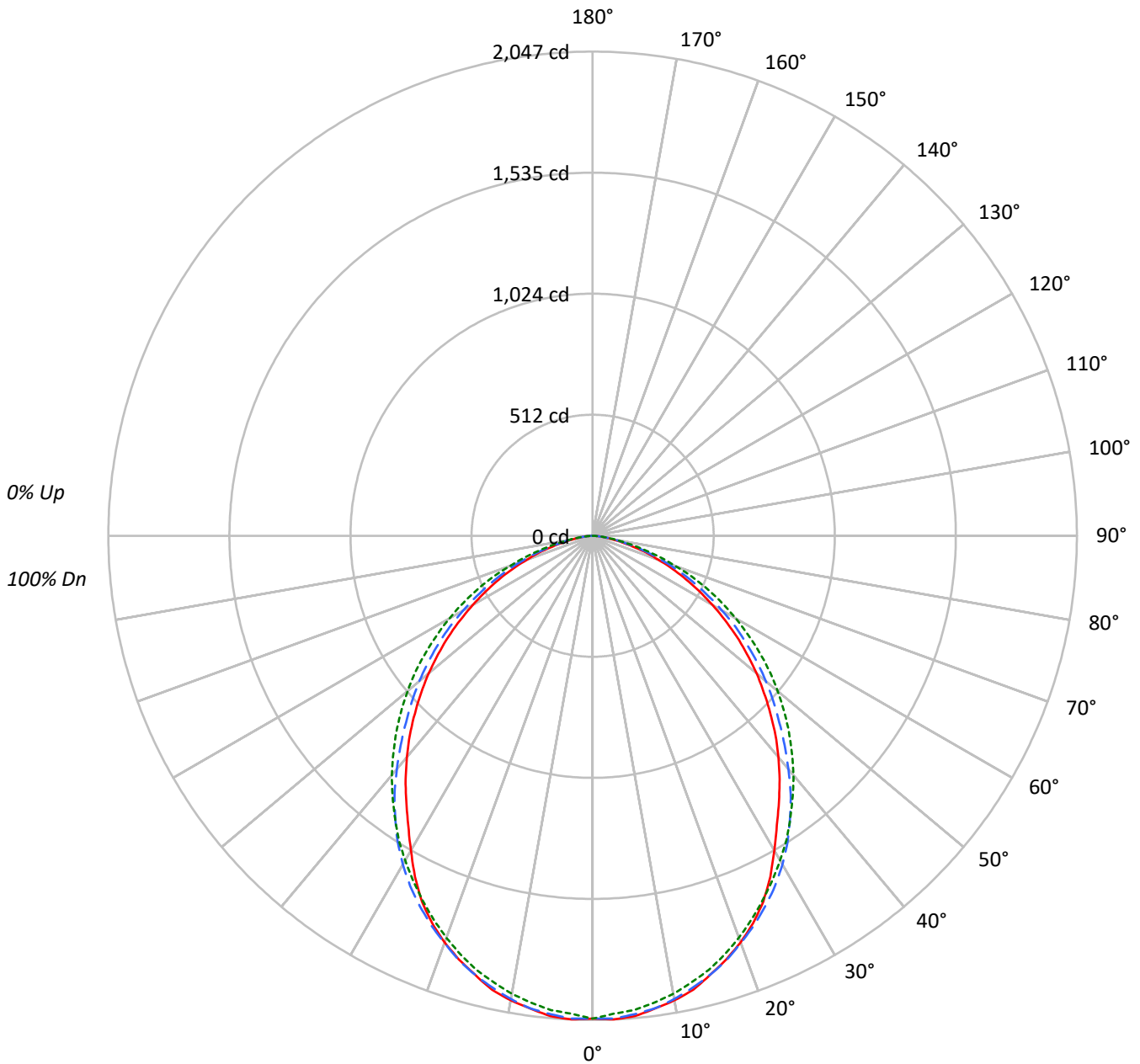
Lumens per Lamp: N/A
Luminaire Lumens: 4720.0 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (A_{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: P555404

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-81-96-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555404

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-81-96-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°	10986	10986	10986
5°	11015	10969	10875
10°	10898	10868	10744
15°	10705	10705	10583
20°	10478	10492	10357
25°	10133	10259	10096
30°	9542	9971	9849
35°	9017	9558	9573
40°	8578	9041	9278
45°	8088	8493	8930
50°	7571	8004	8549
55°	6983	7446	8086
60°	6288	6795	7521
65°	5552	6041	6841
70°	4628	5146	5813
75°	3637	4109	4550
80°	2600	2892	3208
85°	1692	1692	1599



TEST NUMBER: P555404

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-81-96-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.2	4.1
10°-20°	539.9	11.4
20°-30°	789.0	16.7
30°-40°	895.6	19.0
40°-50°	864.6	18.3
50°-60°	713.2	15.1
60°-70°	474.9	10.1
70°-80°	212.5	4.5
80°-90°	38.0	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°	1521.1	32.2
0°-40°	2416.7	51.2
0°-60°	3994.5	84.6
0°-90°	4720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4720.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2041	2041	2041	2041	2041	
5°	2039	2038	2030	2019	2013	193
15°	1921	1926	1921	1913	1899	542
25°	1706	1720	1728	1715	1700	781
35°	1372	1391	1455	1462	1457	860
45°	1063	1081	1116	1167	1173	820
55°	744	757	794	838	862	664
65°	436	448	474	508	537	432
75°	175	184	198	207	219	191
85°	27	27	27	26	26	37
90°	0	0	0	0	0	



TEST NUMBER: P555404

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-81-96-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2041.3	2041.3	2041.3	2041.3	2041.3
2.5°	2046.8	2047.6	2042.8	2030.3	2022.5
5°	2038.9	2038.1	2030.3	2019.3	2013.0
7.5°	2016.2	2017.8	2015.4	1999.7	1991.1
10°	1994.2	1995.0	1988.7	1976.2	1966.0
12.5°	1966.0	1965.2	1956.6	1950.3	1933.8
15°	1921.3	1926.0	1921.3	1912.7	1899.3
17.5°	1878.2	1878.2	1881.3	1866.4	1856.2
20°	1829.5	1831.9	1831.9	1820.1	1808.4
22.5°	1773.1	1780.1	1782.5	1769.9	1755.8
25°	1706.4	1719.8	1727.6	1715.1	1700.2
27.5°	1625.7	1646.0	1669.6	1660.2	1643.7
30°	1535.5	1565.3	1604.5	1596.6	1584.9
32.5°	1450.0	1479.8	1533.9	1530.8	1524.5
35°	1372.4	1391.2	1454.7	1462.5	1457.0
37.5°	1298.6	1315.9	1375.5	1393.5	1388.8
40°	1221.0	1239.8	1286.9	1319.0	1320.6
42.5°	1144.2	1162.2	1200.6	1246.9	1246.9
45°	1062.6	1080.6	1115.9	1166.9	1173.2
47.5°	982.6	1001.4	1035.9	1086.9	1097.1
50°	904.2	921.4	955.9	1005.3	1021.0
52.5°	822.6	841.4	875.2	920.7	943.4
55°	744.2	756.8	793.6	837.5	861.8
57.5°	662.7	674.4	716.0	753.6	778.7
60°	584.2	599.1	631.3	669.7	698.7
62.5°	508.9	524.6	552.1	585.8	618.7
65°	436.0	447.8	474.4	508.2	537.2
67.5°	365.4	375.6	402.3	425.8	456.4
70°	294.1	307.4	327.0	349.8	369.4
72.5°	236.8	242.3	258.8	275.3	295.6
75°	174.9	184.3	197.6	207.0	218.8
77.5°	125.5	131.0	138.8	146.6	157.6
80°	83.9	86.3	93.3	94.9	103.5
82.5°	51.0	52.5	54.1	54.9	58.0
85°	27.4	27.4	27.4	25.9	25.9
87.5°	15.7	15.7	13.3	11.0	7.8
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)