

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: P554118

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-81-87-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: P554118
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-LD4-1LO-30-UNV-81-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

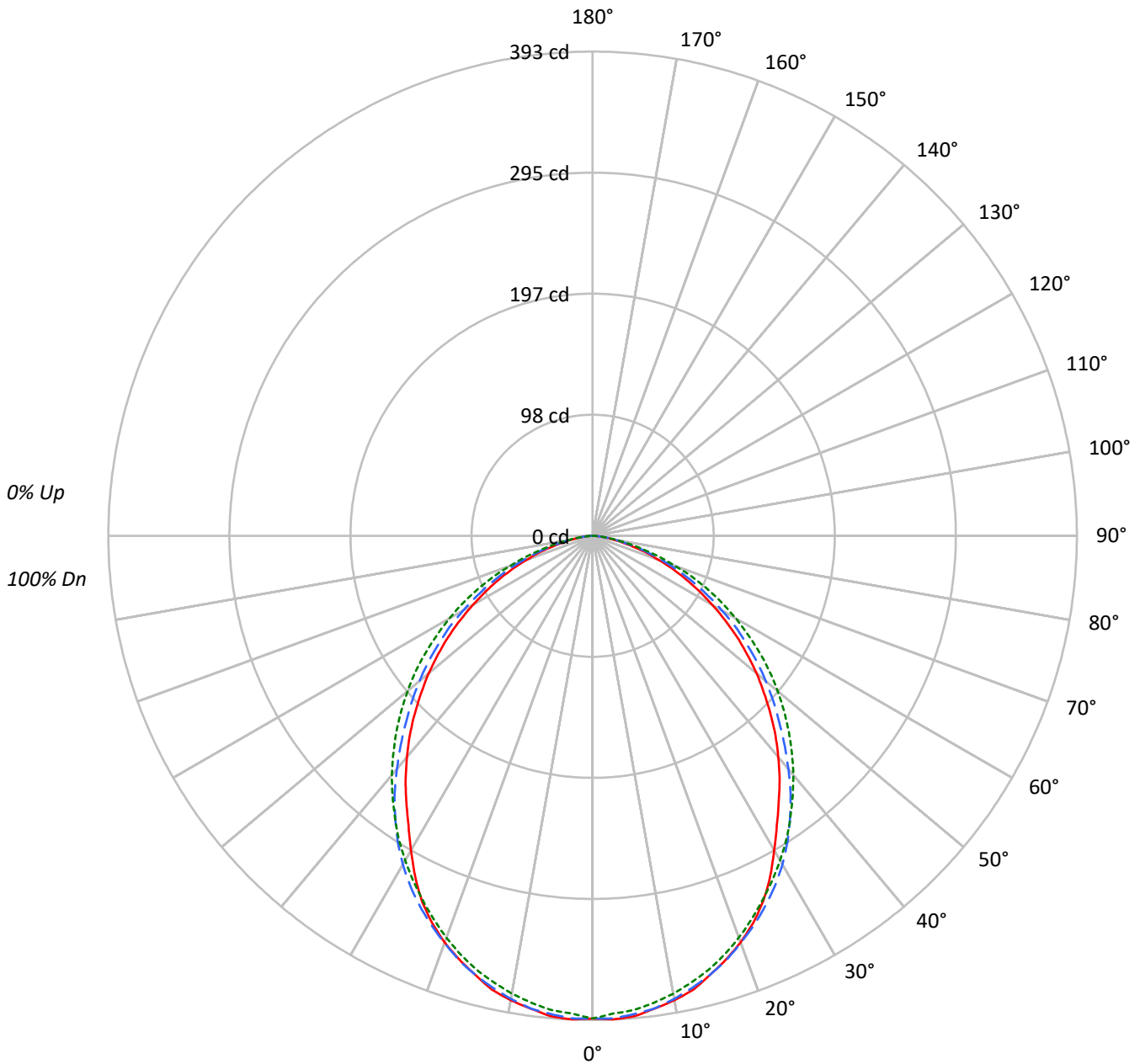
Lumens per Lamp: N/A
Luminaire Lumens: 906.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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: P554118

CATALOG NUMBER: FUSL-12-2-LD4-1LO-30-UNV-81-87-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554118

CATALOG NUMBER: FUSL-12-2-LD4-1LO-30-UNV-81-87-EDD-90

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°	2109	2109	2109
5°	2115	2105	2088
10°	2092	2086	2062
15°	2055	2055	2031
20°	2011	2014	1988
25°	1945	1969	1938
30°	1831	1914	1890
35°	1731	1834	1838
40°	1647	1735	1781
45°	1553	1630	1714
50°	1454	1536	1641
55°	1341	1429	1552
60°	1207	1305	1443
65°	1066	1160	1313
70°	887	988	1116
75°	699	788	873
80°	499	555	617
85°	327	327	309



TEST NUMBER: P554118

CATALOG NUMBER: FUSL-12-2-LD4-1LO-30-UNV-81-87-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	4.1
10°-20°	103.6	11.4
20°-30°	151.4	16.7
30°-40°	171.9	19.0
40°-50°	166.0	18.3
50°-60°	136.9	15.1
60°-70°	91.2	10.1
70°-80°	40.8	4.5
80°-90°	7.3	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°	292.0	32.2
0°-40°	463.9	51.2
0°-60°	766.7	84.6
0°-90°	906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	392	392	392	392	392	
5°	391	391	390	388	386	37
15°	369	370	369	367	365	104
25°	328	330	332	329	326	150
35°	263	267	279	281	280	165
45°	204	207	214	224	225	157
55°	143	145	152	161	165	128
65°	84	86	91	98	103	83
75°	34	35	38	40	42	37
85°	5	5	5	5	5	7
90°	0	0	0	0	0	



TEST NUMBER: P554118

CATALOG NUMBER: FUSL-12-2-LD4-1LO-30-UNV-81-87-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	391.8	391.8	391.8	391.8	391.8
2.5°	392.9	393.0	392.1	389.7	388.2
5°	391.4	391.2	389.7	387.6	386.4
7.5°	387.0	387.3	386.9	383.8	382.2
10°	382.8	382.9	381.7	379.3	377.4
12.5°	377.4	377.2	375.6	374.4	371.2
15°	368.8	369.7	368.8	367.1	364.6
17.5°	360.5	360.5	361.1	358.3	356.3
20°	351.2	351.6	351.6	349.4	347.1
22.5°	340.3	341.7	342.1	339.7	337.0
25°	327.5	330.1	331.6	329.2	326.3
27.5°	312.0	316.0	320.5	318.7	315.5
30°	294.7	300.5	308.0	306.5	304.2
32.5°	278.3	284.0	294.4	293.8	292.6
35°	263.4	267.0	279.2	280.7	279.7
37.5°	249.3	252.6	264.0	267.5	266.6
40°	234.4	238.0	247.0	253.2	253.5
42.5°	219.6	223.1	230.5	239.3	239.3
45°	204.0	207.4	214.2	224.0	225.2
47.5°	188.6	192.2	198.8	208.6	210.6
50°	173.6	176.9	183.5	193.0	196.0
52.5°	157.9	161.5	168.0	176.7	181.1
55°	142.9	145.3	152.3	160.8	165.4
57.5°	127.2	129.5	137.4	144.7	149.5
60°	112.1	115.0	121.2	128.5	134.1
62.5°	97.7	100.7	106.0	112.4	118.8
65°	83.7	86.0	91.1	97.5	103.1
67.5°	70.1	72.1	77.2	81.7	87.6
70°	56.4	59.0	62.8	67.1	70.9
72.5°	45.5	46.5	49.7	52.8	56.7
75°	33.6	35.4	37.9	39.7	42.0
77.5°	24.1	25.1	26.6	28.1	30.3
80°	16.1	16.6	17.9	18.2	19.9
82.5°	9.8	10.1	10.4	10.5	11.1
85°	5.3	5.3	5.3	5.0	5.0
87.5°	3.0	3.0	2.6	2.1	1.5
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)