

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: P554252

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-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: P554252
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-40-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 4000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

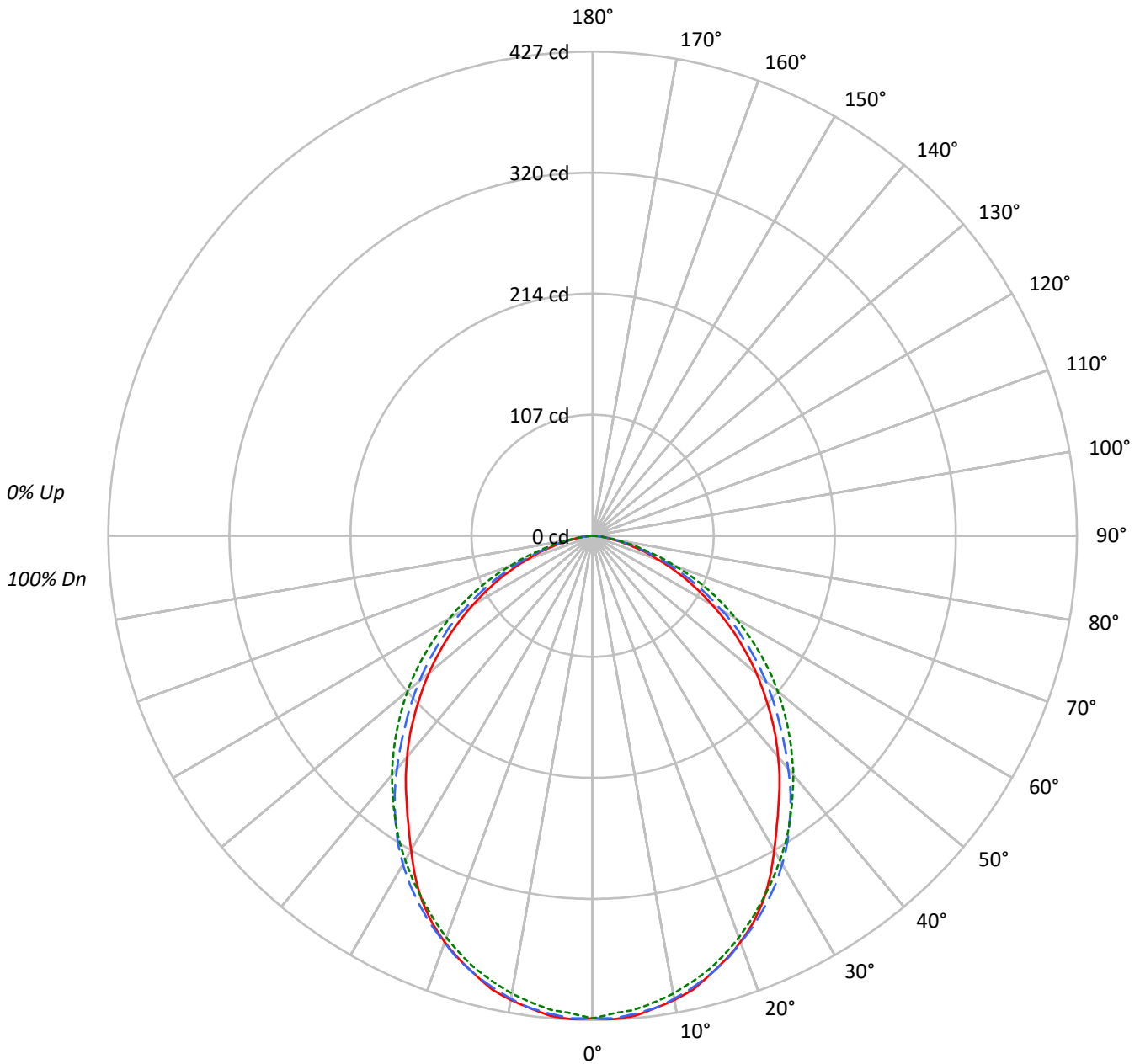
Lumens per Lamp: N/A
Luminaire Lumens: 984.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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: P554252

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-81-96-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554252

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-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°	2291	2291	2291
5°	2297	2287	2267
10°	2272	2266	2240
15°	2232	2232	2206
20°	2184	2187	2159
25°	2112	2139	2105
30°	1989	2079	2053
35°	1880	1993	1996
40°	1788	1885	1934
45°	1686	1770	1862
50°	1578	1669	1783
55°	1455	1552	1686
60°	1311	1417	1568
65°	1158	1259	1426
70°	965	1073	1212
75°	759	857	948
80°	542	604	669
85°	352	352	333



TEST NUMBER: P554252

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-81-96-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	4.1
10°-20°	112.6	11.4
20°-30°	164.5	16.7
30°-40°	186.7	19.0
40°-50°	180.2	18.3
50°-60°	148.7	15.1
60°-70°	99.0	10.1
70°-80°	44.3	4.5
80°-90°	7.9	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°	317.1	32.2
0°-40°	503.8	51.2
0°-60°	832.8	84.6
0°-90°	984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	426	426	426	426	426	
5°	425	425	423	421	420	40
15°	400	402	400	399	396	113
25°	356	358	360	358	354	163
35°	286	290	303	305	304	179
45°	222	225	233	243	245	171
55°	155	158	165	175	180	138
65°	91	93	99	106	112	90
75°	36	38	41	43	46	40
85°	6	6	6	5	5	8
90°	0	0	0	0	0	



TEST NUMBER: P554252

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-81-96-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	425.6	425.6	425.6	425.6	425.6
2.5°	426.7	426.9	425.9	423.3	421.6
5°	425.1	424.9	423.3	421.0	419.7
7.5°	420.3	420.7	420.2	416.9	415.1
10°	415.7	415.9	414.6	412.0	409.9
12.5°	409.9	409.7	407.9	406.6	403.2
15°	400.5	401.5	400.5	398.7	396.0
17.5°	391.5	391.5	392.2	389.1	387.0
20°	381.4	381.9	381.9	379.5	377.0
22.5°	369.6	371.1	371.6	369.0	366.0
25°	355.7	358.5	360.2	357.5	354.4
27.5°	338.9	343.2	348.1	346.1	342.7
30°	320.1	326.3	334.5	332.9	330.4
32.5°	302.3	308.5	319.8	319.1	317.8
35°	286.1	290.0	303.3	304.9	303.8
37.5°	270.7	274.3	286.8	290.5	289.5
40°	254.5	258.5	268.3	275.0	275.3
42.5°	238.5	242.3	250.3	259.9	259.9
45°	221.5	225.3	232.6	243.3	244.6
47.5°	204.8	208.8	216.0	226.6	228.7
50°	188.5	192.1	199.3	209.6	212.9
52.5°	171.5	175.4	182.5	191.9	196.7
55°	155.1	157.8	165.4	174.6	179.7
57.5°	138.1	140.6	149.3	157.1	162.3
60°	121.8	124.9	131.6	139.6	145.7
62.5°	106.1	109.4	115.1	122.1	129.0
65°	90.9	93.4	98.9	105.9	112.0
67.5°	76.2	78.3	83.9	88.8	95.1
70°	61.3	64.1	68.2	72.9	77.0
72.5°	49.4	50.5	54.0	57.4	61.6
75°	36.5	38.4	41.2	43.2	45.6
77.5°	26.2	27.3	28.9	30.6	32.9
80°	17.5	18.0	19.5	19.8	21.6
82.5°	10.6	11.0	11.3	11.4	12.1
85°	5.7	5.7	5.7	5.4	5.4
87.5°	3.3	3.3	2.8	2.3	1.6
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)