

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: P554199

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-82-87-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: P554199
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-35-UNV-82-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

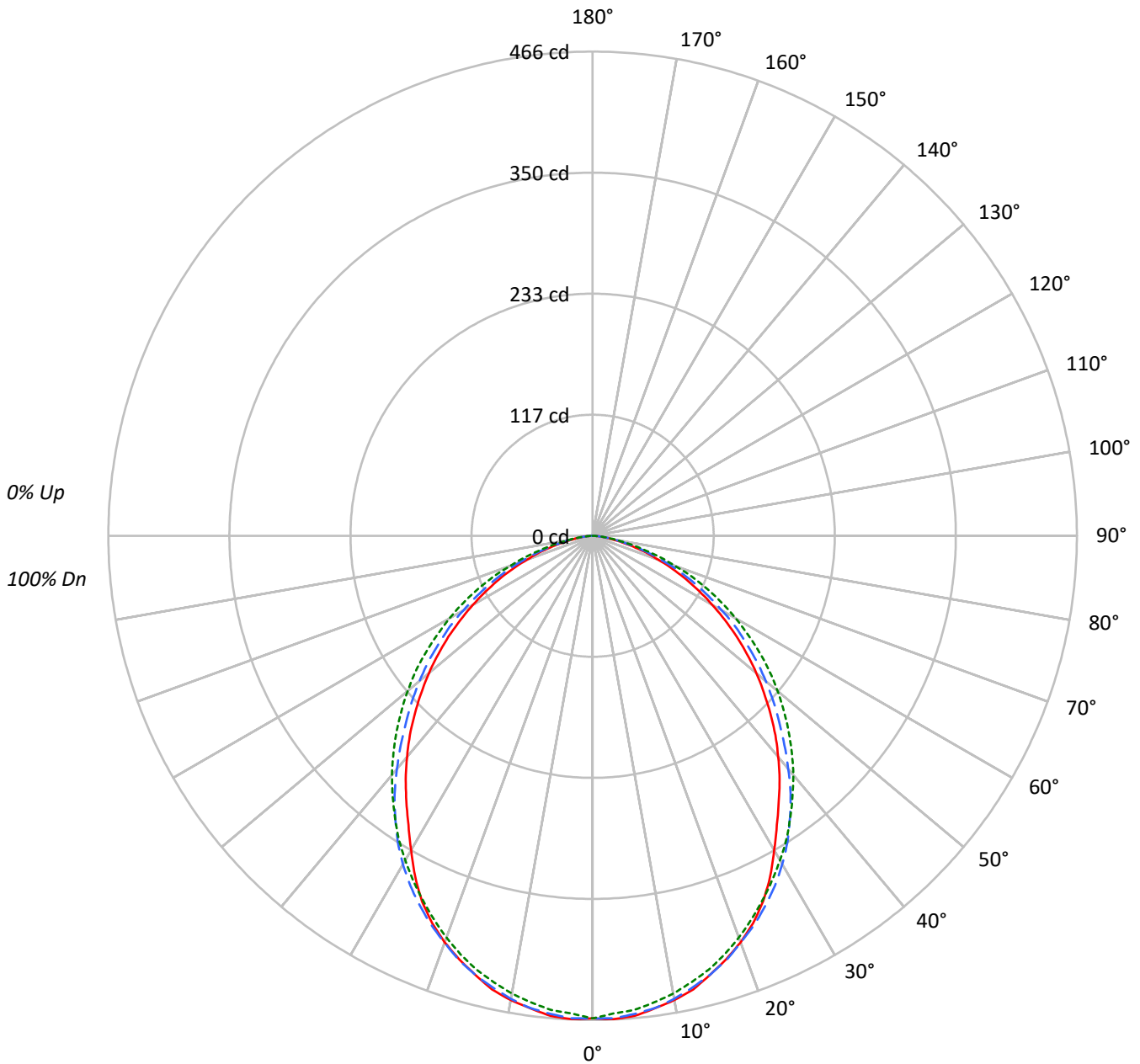
Lumens per Lamp: N/A
Luminaire Lumens: 1074.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P554199

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-87-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554199

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-87-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°	2500	2500	2500
5°	2506	2496	2475
10°	2480	2473	2444
15°	2436	2436	2408
20°	2384	2387	2357
25°	2306	2334	2298
30°	2171	2269	2241
35°	2052	2175	2178
40°	1952	2057	2111
45°	1840	1932	2031
50°	1722	1821	1945
55°	1589	1695	1840
60°	1431	1546	1711
65°	1263	1375	1556
70°	1053	1171	1322
75°	828	936	1036
80°	592	657	731
85°	383	383	364



TEST NUMBER: P554199

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-87-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	4.1
10°-20°	122.9	11.4
20°-30°	179.5	16.7
30°-40°	203.8	19.0
40°-50°	196.7	18.3
50°-60°	162.3	15.1
60°-70°	108.1	10.1
70°-80°	48.4	4.5
80°-90°	8.6	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°	346.1	32.2
0°-40°	549.9	51.2
0°-60°	908.9	84.6
0°-90°	1074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	464	464	464	464	464	
5°	464	464	462	460	458	44
15°	437	438	437	435	432	123
25°	388	391	393	390	387	178
35°	312	317	331	333	332	196
45°	242	246	254	266	267	187
55°	169	172	181	191	196	151
65°	99	102	108	116	122	98
75°	40	42	45	47	50	44
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



TEST NUMBER: P554199

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-87-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	464.5	464.5	464.5	464.5	464.5
2.5°	465.7	465.9	464.8	462.0	460.2
5°	463.9	463.8	462.0	459.5	458.1
7.5°	458.8	459.1	458.6	455.0	453.1
10°	453.8	453.9	452.5	449.7	447.3
12.5°	447.3	447.2	445.2	443.8	440.0
15°	437.2	438.2	437.2	435.2	432.2
17.5°	427.4	427.4	428.1	424.7	422.4
20°	416.3	416.8	416.8	414.2	411.5
22.5°	403.5	405.1	405.6	402.7	399.5
25°	388.3	391.3	393.1	390.2	386.9
27.5°	369.9	374.5	379.9	377.8	374.0
30°	349.4	356.2	365.1	363.3	360.6
32.5°	329.9	336.7	349.0	348.3	346.9
35°	312.3	316.6	331.0	332.8	331.5
37.5°	295.5	299.4	313.0	317.1	316.0
40°	277.8	282.1	292.8	300.1	300.5
42.5°	260.3	264.4	273.2	283.7	283.7
45°	241.8	245.9	253.9	265.5	266.9
47.5°	223.6	227.9	235.7	247.3	249.6
50°	205.7	209.7	217.5	228.8	232.3
52.5°	187.2	191.5	199.1	209.5	214.7
55°	169.3	172.2	180.6	190.6	196.1
57.5°	150.8	153.5	162.9	171.5	177.2
60°	132.9	136.3	143.6	152.4	159.0
62.5°	115.8	119.4	125.6	133.3	140.8
65°	99.2	101.9	108.0	115.6	122.2
67.5°	83.2	85.5	91.5	96.9	103.9
70°	66.9	69.9	74.4	79.6	84.0
72.5°	53.9	55.1	58.9	62.6	67.3
75°	39.8	41.9	45.0	47.1	49.8
77.5°	28.6	29.8	31.6	33.4	35.9
80°	19.1	19.6	21.2	21.6	23.6
82.5°	11.6	12.0	12.3	12.5	13.2
85°	6.2	6.2	6.2	5.9	5.9
87.5°	3.6	3.6	3.0	2.5	1.8
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)