

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: P555073

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-81-84-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: P555073
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-LD4-2LO-50-UNV-81-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

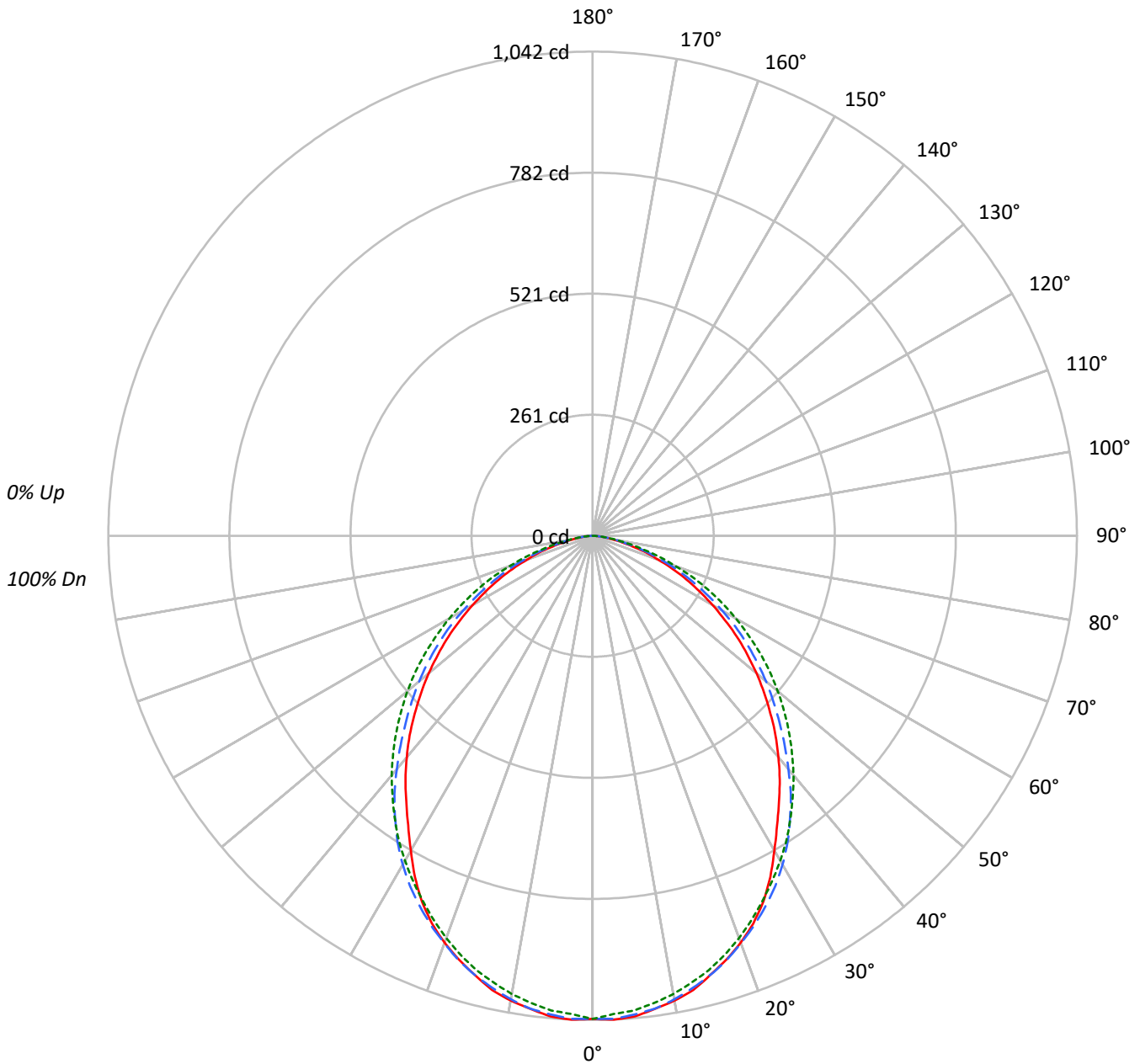
Lumens per Lamp: N/A
Luminaire Lumens: 2404.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P555073

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-81-84-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555073

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-81-84-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°	5596	5596	5596
5°	5611	5587	5539
10°	5551	5535	5472
15°	5453	5453	5390
20°	5337	5344	5275
25°	5161	5225	5142
30°	4860	5079	5016
35°	4593	4868	4876
40°	4369	4605	4725
45°	4119	4326	4548
50°	3856	4077	4354
55°	3556	3793	4119
60°	3203	3461	3831
65°	2828	3077	3484
70°	2357	2622	2960
75°	1853	2094	2316
80°	1323	1472	1633
85°	865	865	815



TEST NUMBER: P555073

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-81-84-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	4.1
10°-20°	275.0	11.4
20°-30°	401.9	16.7
30°-40°	456.2	19.0
40°-50°	440.3	18.3
50°-60°	363.3	15.1
60°-70°	241.9	10.1
70°-80°	108.2	4.5
80°-90°	19.4	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°	774.7	32.2
0°-40°	1230.9	51.2
0°-60°	2034.5	84.6
0°-90°	2404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1038	1038	1034	1028	1025	98
15°	979	981	979	974	967	276
25°	869	876	880	874	866	398
35°	699	709	741	745	742	438
45°	541	550	568	594	598	418
55°	379	385	404	427	439	338
65°	222	228	242	259	274	220
75°	89	94	101	105	111	97
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



TEST NUMBER: P555073

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-81-84-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1039.7	1039.7	1039.7	1039.7	1039.7
2.5°	1042.5	1042.9	1040.5	1034.1	1030.1
5°	1038.5	1038.1	1034.1	1028.5	1025.3
7.5°	1026.9	1027.7	1026.5	1018.5	1014.1
10°	1015.7	1016.1	1012.9	1006.5	1001.3
12.5°	1001.3	1000.9	996.5	993.3	984.9
15°	978.6	981.0	978.6	974.2	967.4
17.5°	956.6	956.6	958.2	950.6	945.4
20°	931.8	933.0	933.0	927.0	921.0
22.5°	903.1	906.7	907.9	901.5	894.3
25°	869.1	875.9	879.9	873.5	865.9
27.5°	828.0	838.4	850.3	845.6	837.2
30°	782.0	797.2	817.2	813.2	807.2
32.5°	738.5	753.7	781.2	779.7	776.5
35°	699.0	708.6	740.9	744.9	742.1
37.5°	661.4	670.2	700.6	709.8	707.4
40°	621.9	631.5	655.4	671.8	672.6
42.5°	582.7	591.9	611.5	635.1	635.1
45°	541.2	550.4	568.4	594.3	597.5
47.5°	500.5	510.0	527.6	553.6	558.8
50°	460.5	469.3	486.9	512.0	520.0
52.5°	419.0	428.6	445.7	468.9	480.5
55°	379.0	385.4	404.2	426.6	439.0
57.5°	337.5	343.5	364.7	383.8	396.6
60°	297.6	305.2	321.5	341.1	355.9
62.5°	259.2	267.2	281.2	298.4	315.1
65°	222.1	228.1	241.6	258.8	273.6
67.5°	186.1	191.3	204.9	216.9	232.5
70°	149.8	156.6	166.6	178.1	188.1
72.5°	120.6	123.4	131.8	140.2	150.6
75°	89.1	93.9	100.7	105.4	111.4
77.5°	63.9	66.7	70.7	74.7	80.3
80°	42.7	43.9	47.5	48.3	52.7
82.5°	26.0	26.8	27.6	28.0	29.6
85°	14.0	14.0	14.0	13.2	13.2
87.5°	8.0	8.0	6.8	5.6	4.0
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)