

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: P553948

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-82-96-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: P553948
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-LD4-1HI-35-UNV-82-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

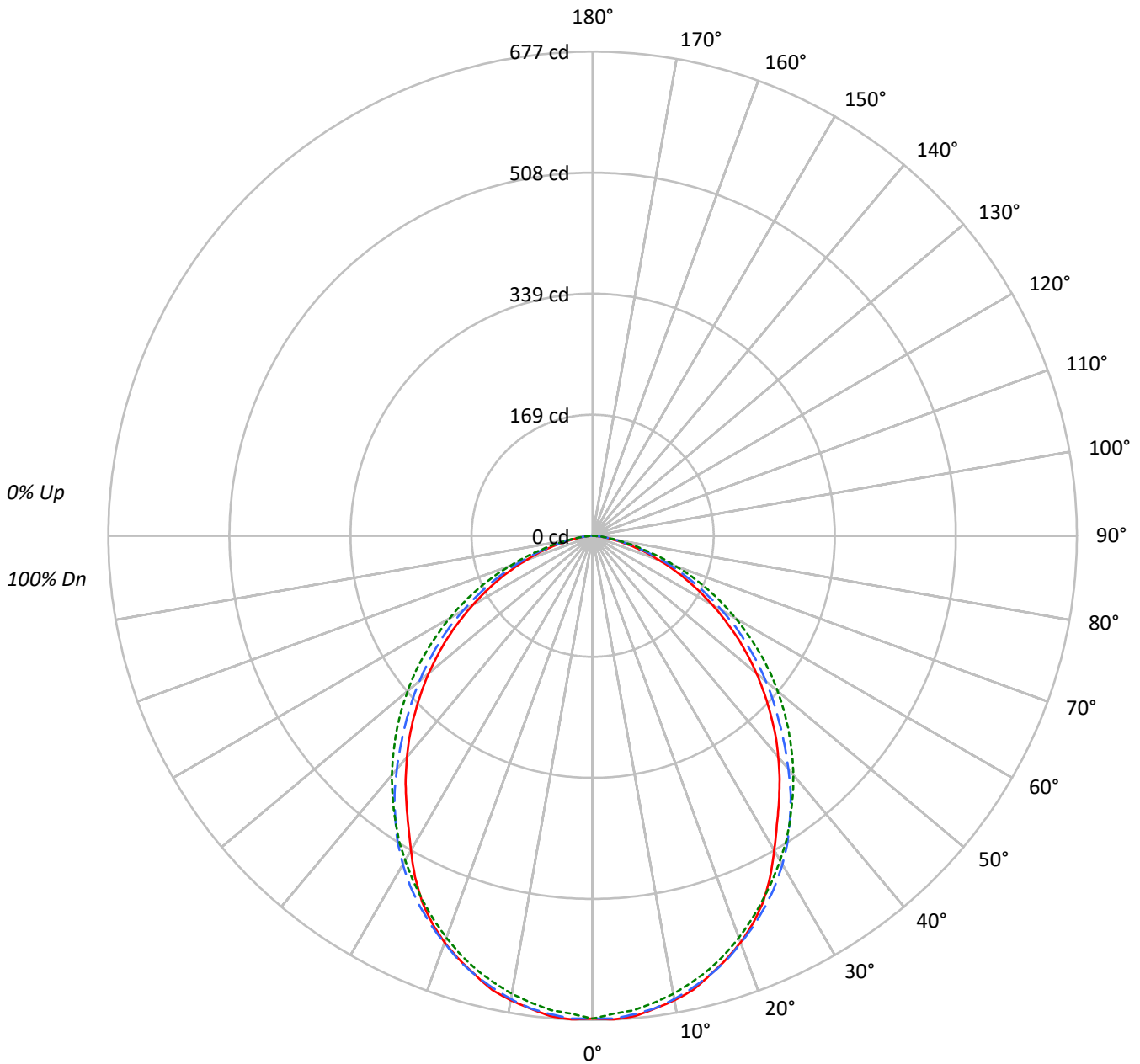
Lumens per Lamp: N/A
Luminaire Lumens: 1561.0 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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: P553948

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-82-96-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P553948

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-82-96-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°	3633	3633	3633
5°	3643	3628	3597
10°	3604	3594	3553
15°	3540	3540	3500
20°	3466	3470	3426
25°	3351	3393	3339
30°	3156	3297	3257
35°	2982	3161	3166
40°	2837	2990	3068
45°	2675	2809	2953
50°	2503	2647	2828
55°	2309	2463	2674
60°	2080	2248	2488
65°	1836	1998	2263
70°	1531	1701	1923
75°	1202	1360	1506
80°	862	958	1060
85°	562	562	531



TEST NUMBER: P553948

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-82-96-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	4.1
10°-20°	178.6	11.4
20°-30°	260.9	16.7
30°-40°	296.2	19.0
40°-50°	285.9	18.3
50°-60°	235.9	15.1
60°-70°	157.1	10.1
70°-80°	70.3	4.5
80°-90°	12.6	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°	503.1	32.2
0°-40°	799.3	51.2
0°-60°	1321.1	84.6
0°-90°	1561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	674	674	672	668	666	64
15°	635	637	635	633	628	179
25°	564	569	571	567	562	258
35°	454	460	481	484	482	284
45°	351	357	369	386	388	271
55°	246	250	262	277	285	220
65°	144	148	157	168	178	143
75°	58	61	65	68	72	63
85°	9	9	9	9	9	12
90°	0	0	0	0	0	



TEST NUMBER: P553948

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-82-96-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	675.1	675.1	675.1	675.1	675.1
2.5°	676.9	677.2	675.6	671.5	668.9
5°	674.3	674.1	671.5	667.8	665.8
7.5°	666.8	667.3	666.5	661.3	658.5
10°	659.5	659.8	657.7	653.6	650.2
12.5°	650.2	649.9	647.1	645.0	639.6
15°	635.4	637.0	635.4	632.6	628.1
17.5°	621.1	621.1	622.2	617.3	613.9
20°	605.1	605.8	605.8	602.0	598.1
22.5°	586.4	588.7	589.5	585.4	580.7
25°	564.3	568.8	571.4	567.2	562.3
27.5°	537.6	544.4	552.2	549.0	543.6
30°	507.8	517.7	530.6	528.0	524.1
32.5°	479.5	489.4	507.3	506.3	504.2
35°	453.9	460.1	481.1	483.7	481.9
37.5°	429.5	435.2	454.9	460.9	459.3
40°	403.8	410.0	425.6	436.2	436.7
42.5°	378.4	384.4	397.1	412.4	412.4
45°	351.4	357.4	369.1	385.9	388.0
47.5°	325.0	331.2	342.6	359.5	362.8
50°	299.0	304.7	316.1	332.5	337.7
52.5°	272.1	278.3	289.4	304.5	312.0
55°	246.1	250.3	262.5	277.0	285.0
57.5°	219.2	223.0	236.8	249.2	257.5
60°	193.2	198.1	208.8	221.5	231.1
62.5°	168.3	173.5	182.6	193.7	204.6
65°	144.2	148.1	156.9	168.1	177.7
67.5°	120.9	124.2	133.0	140.8	150.9
70°	97.3	101.7	108.1	115.7	122.2
72.5°	78.3	80.1	85.6	91.0	97.8
75°	57.8	60.9	65.4	68.5	72.4
77.5°	41.5	43.3	45.9	48.5	52.1
80°	27.8	28.5	30.9	31.4	34.2
82.5°	16.9	17.4	17.9	18.2	19.2
85°	9.1	9.1	9.1	8.6	8.6
87.5°	5.2	5.2	4.4	3.6	2.6
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)