

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: P553882

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-82-94-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: P553882
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-30-UNV-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

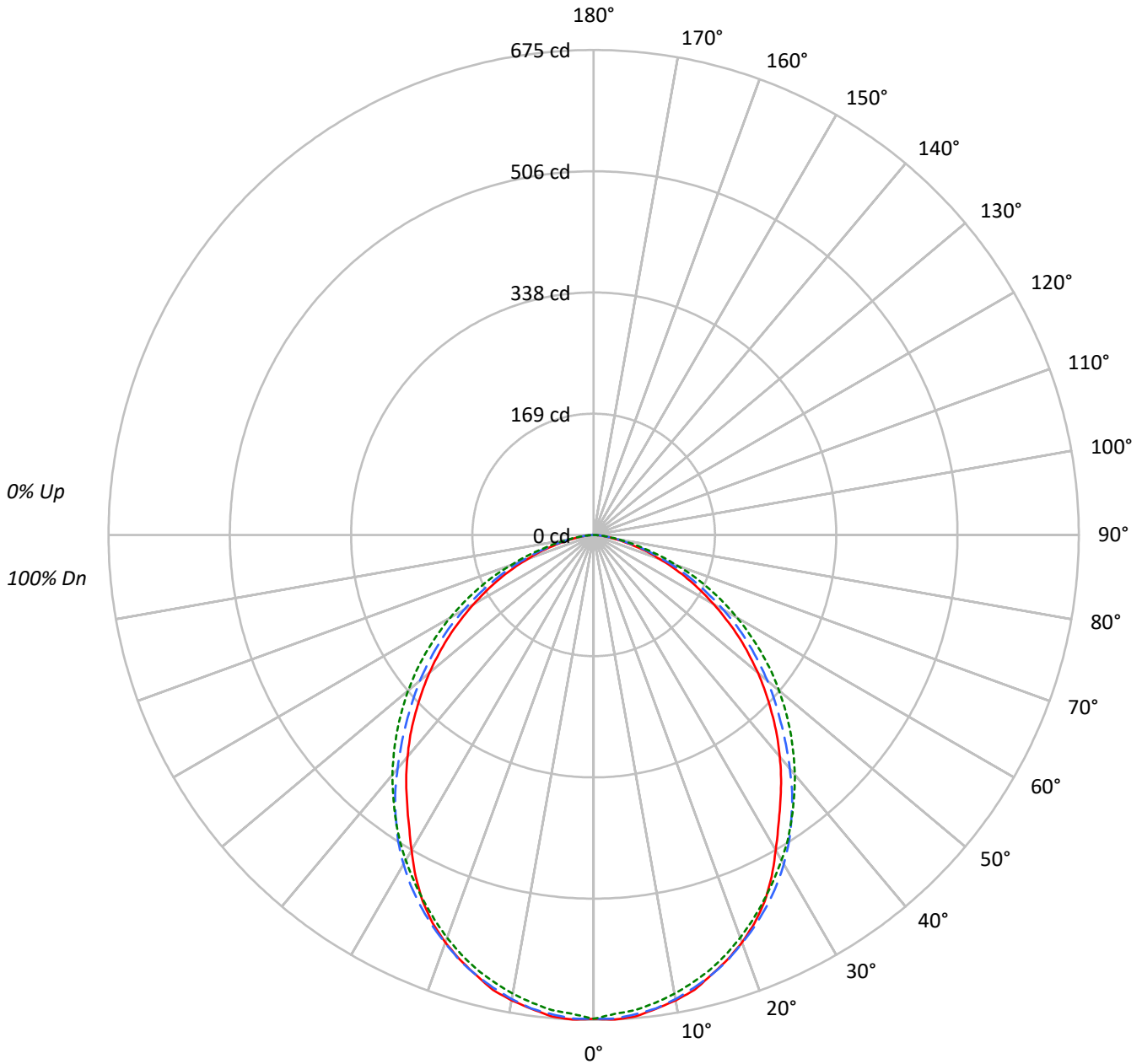
Lumens per Lamp: N/A
Luminaire Lumens: 1557.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P553882

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-82-94-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P553882

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-82-94-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°	3624	3624	3624
5°	3634	3618	3587
10°	3595	3585	3544
15°	3531	3531	3491
20°	3456	3461	3416
25°	3343	3384	3330
30°	3148	3289	3249
35°	2974	3153	3158
40°	2830	2982	3060
45°	2668	2802	2946
50°	2498	2640	2820
55°	2304	2457	2668
60°	2074	2241	2481
65°	1831	1993	2257
70°	1526	1698	1917
75°	1200	1356	1501
80°	859	955	1057
85°	562	562	525



TEST NUMBER: P553882

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-82-94-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	4.1
10°-20°	178.1	11.4
20°-30°	260.3	16.7
30°-40°	295.4	19.0
40°-50°	285.2	18.3
50°-60°	235.3	15.1
60°-70°	156.7	10.1
70°-80°	70.1	4.5
80°-90°	12.5	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°	501.8	32.2
0°-40°	797.2	51.2
0°-60°	1317.7	84.6
0°-90°	1557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	673	672	670	666	664	64
15°	634	635	634	631	626	179
25°	563	567	570	566	561	258
35°	453	459	480	482	481	284
45°	350	356	368	385	387	270
55°	246	250	262	276	284	219
65°	144	148	156	168	177	143
75°	58	61	65	68	72	63
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



TEST NUMBER: P553882

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-82-94-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	673.4	673.4	673.4	673.4	673.4
2.5°	675.2	675.4	673.9	669.7	667.2
5°	672.6	672.3	669.7	666.1	664.0
7.5°	665.1	665.6	664.8	659.7	656.8
10°	657.8	658.1	656.0	651.9	648.5
12.5°	648.5	648.3	645.4	643.4	637.9
15°	633.8	635.3	633.8	630.9	626.5
17.5°	619.6	619.6	620.6	615.7	612.3
20°	603.5	604.3	604.3	600.4	596.5
22.5°	584.9	587.2	588.0	583.9	579.2
25°	562.9	567.3	569.9	565.7	560.8
27.5°	536.3	543.0	550.7	547.6	542.2
30°	506.5	516.3	529.3	526.7	522.8
32.5°	478.3	488.1	506.0	505.0	502.9
35°	452.7	458.9	479.9	482.5	480.6
37.5°	428.4	434.1	453.7	459.7	458.1
40°	402.8	409.0	424.5	435.1	435.6
42.5°	377.4	383.4	396.0	411.3	411.3
45°	350.5	356.5	368.1	384.9	387.0
47.5°	324.1	330.3	341.7	358.5	361.9
50°	298.3	304.0	315.3	331.6	336.8
52.5°	271.4	277.6	288.7	303.7	311.2
55°	245.5	249.6	261.8	276.3	284.3
57.5°	218.6	222.5	236.2	248.6	256.9
60°	192.7	197.6	208.2	220.9	230.5
62.5°	167.9	173.1	182.1	193.2	204.1
65°	143.8	147.7	156.5	167.6	177.2
67.5°	120.5	123.9	132.7	140.5	150.6
70°	97.0	101.4	107.9	115.4	121.8
72.5°	78.1	79.9	85.4	90.8	97.5
75°	57.7	60.8	65.2	68.3	72.2
77.5°	41.4	43.2	45.8	48.4	52.0
80°	27.7	28.5	30.8	31.3	34.1
82.5°	16.8	17.3	17.8	18.1	19.1
85°	9.1	9.1	9.1	8.5	8.5
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)