

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: P553892

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-93-86-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: P553892
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-93-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

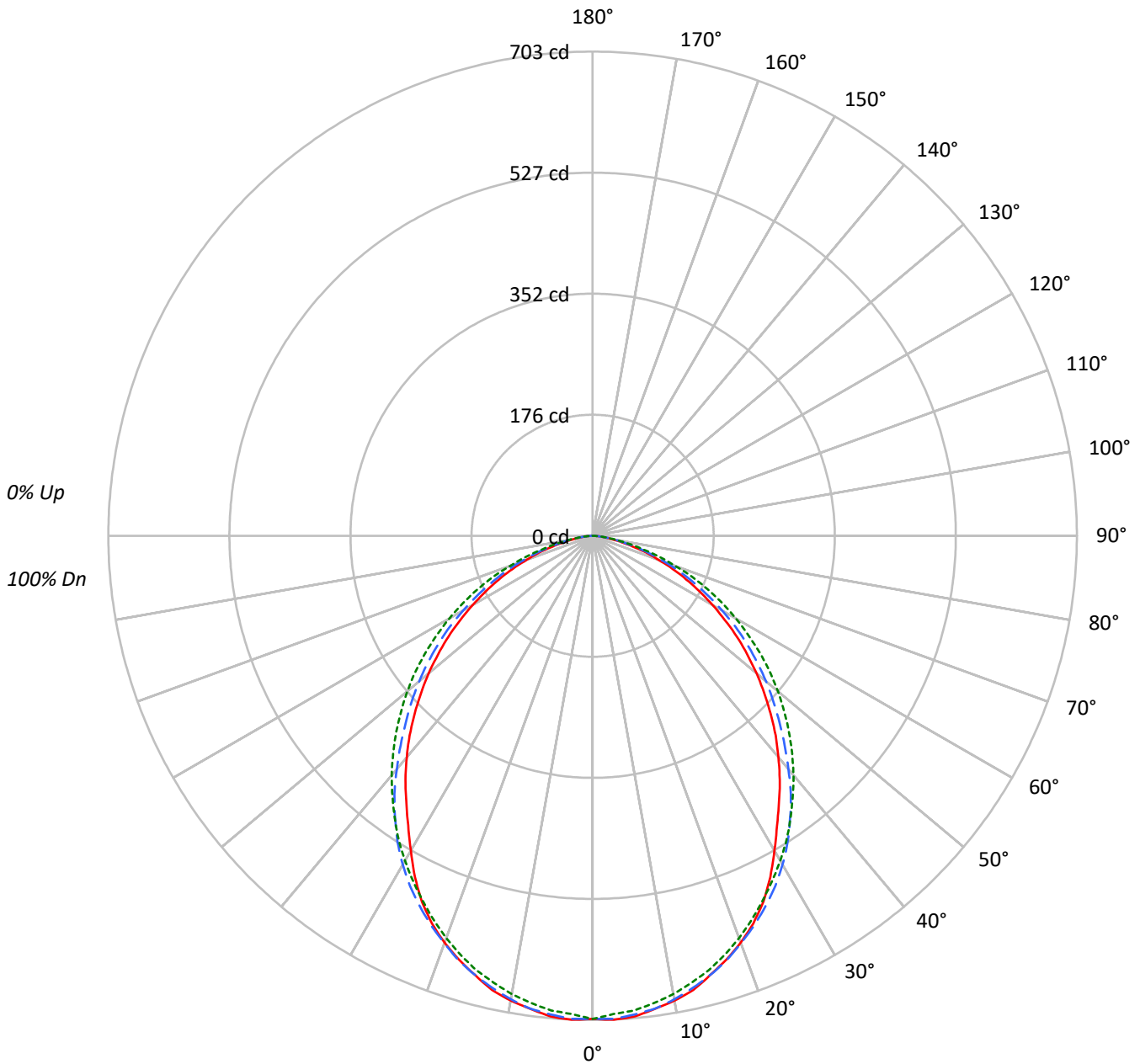
Lumens per Lamp: N/A
Luminaire Lumens: 1622.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P553892

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-93-86-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P553892

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-93-86-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°	3775	3775	3775
5°	3786	3769	3737
10°	3745	3735	3692
15°	3679	3679	3637
20°	3601	3605	3559
25°	3482	3526	3469
30°	3279	3427	3384
35°	3098	3284	3290
40°	2948	3107	3188
45°	2780	2919	3069
50°	2601	2750	2938
55°	2399	2559	2779
60°	2161	2335	2584
65°	1908	2076	2351
70°	1591	1769	1997
75°	1250	1412	1564
80°	893	995	1103
85°	580	580	550



TEST NUMBER: P553892

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-93-86-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	4.1
10°-20°	185.5	11.4
20°-30°	271.1	16.7
30°-40°	307.8	19.0
40°-50°	297.1	18.3
50°-60°	245.1	15.1
60°-70°	163.2	10.1
70°-80°	73.0	4.5
80°-90°	13.1	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°	522.7	32.2
0°-40°	830.5	51.2
0°-60°	1372.7	84.6
0°-90°	1622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	701	700	698	694	692	66
15°	660	662	660	657	653	186
25°	586	591	594	589	584	269
35°	472	478	500	503	501	295
45°	365	371	384	401	403	282
55°	256	260	273	288	296	228
65°	150	154	163	175	185	149
75°	60	63	68	71	75	66
85°	9	9	9	9	9	13
90°	0	0	0	0	0	



TEST NUMBER: P553892

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-93-86-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	701.5	701.5	701.5	701.5	701.5
2.5°	703.4	703.6	702.0	697.7	695.0
5°	700.7	700.4	697.7	693.9	691.8
7.5°	692.8	693.4	692.6	687.2	684.2
10°	685.3	685.6	683.4	679.1	675.6
12.5°	675.6	675.3	672.4	670.2	664.6
15°	660.2	661.9	660.2	657.3	652.7
17.5°	645.4	645.4	646.5	641.4	637.9
20°	628.7	629.5	629.5	625.5	621.4
22.5°	609.3	611.7	612.5	608.2	603.4
25°	586.4	591.0	593.7	589.4	584.2
27.5°	558.6	565.7	573.7	570.5	564.8
30°	527.7	537.9	551.4	548.7	544.6
32.5°	498.3	508.5	527.1	526.0	523.9
35°	471.6	478.1	499.9	502.6	500.7
37.5°	446.3	452.2	472.7	478.9	477.3
40°	419.6	426.1	442.2	453.3	453.8
42.5°	393.2	399.4	412.6	428.5	428.5
45°	365.2	371.4	383.5	401.0	403.2
47.5°	337.7	344.1	356.0	373.5	377.0
50°	310.7	316.6	328.5	345.5	350.9
52.5°	282.7	289.2	300.7	316.4	324.2
55°	255.7	260.1	272.7	287.8	296.2
57.5°	227.7	231.8	246.0	259.0	267.6
60°	200.8	205.9	216.9	230.1	240.1
62.5°	174.9	180.3	189.7	201.3	212.6
65°	149.8	153.9	163.0	174.6	184.6
67.5°	125.6	129.1	138.2	146.3	156.8
70°	101.1	105.6	112.4	120.2	126.9
72.5°	81.4	83.3	88.9	94.6	101.6
75°	60.1	63.3	67.9	71.1	75.2
77.5°	43.1	45.0	47.7	50.4	54.2
80°	28.8	29.6	32.1	32.6	35.6
82.5°	17.5	18.1	18.6	18.9	19.9
85°	9.4	9.4	9.4	8.9	8.9
87.5°	5.4	5.4	4.6	3.8	2.7
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)