

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: P553898

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-93-94-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: P553898
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-93-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

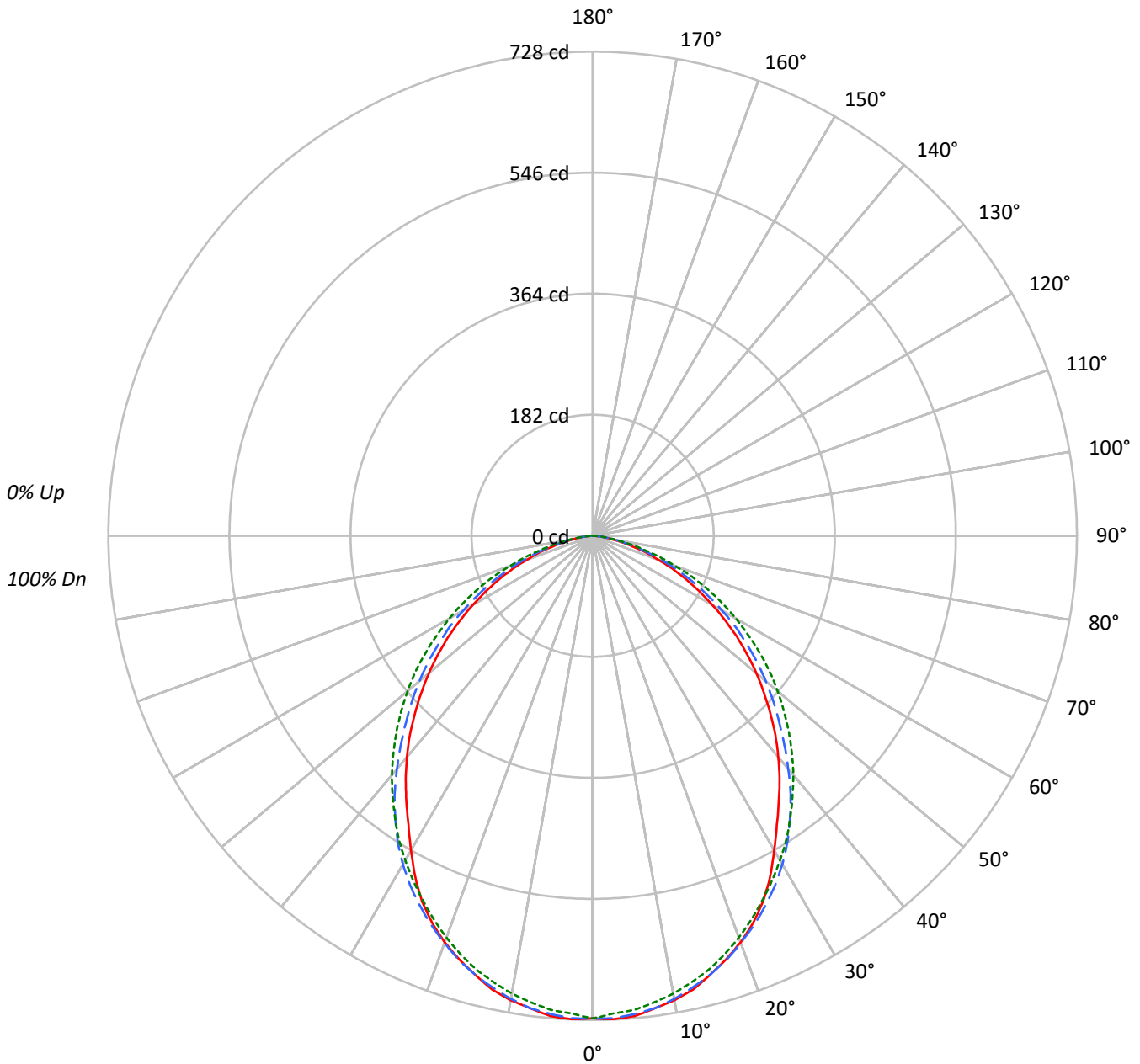
Lumens per Lamp: N/A
Luminaire Lumens: 1678.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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: P553898

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-93-94-EDD-90

Luminous Intensity Polar Plot





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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°	3906	3906	3906
5°	3916	3900	3867
10°	3875	3864	3819
15°	3806	3806	3762
20°	3725	3730	3682
25°	3602	3647	3589
30°	3393	3545	3501
35°	3206	3398	3403
40°	3050	3214	3299
45°	2876	3019	3175
50°	2691	2845	3039
55°	2483	2647	2875
60°	2236	2415	2674
65°	1974	2148	2432
70°	1644	1830	2066
75°	1293	1462	1618
80°	924	1029	1141
85°	605	605	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	4.1
10°-20°	191.9	11.4
20°-30°	280.5	16.7
30°-40°	318.4	19.0
40°-50°	307.4	18.3
50°-60°	253.5	15.1
60°-70°	168.9	10.1
70°-80°	75.6	4.5
80°-90°	13.5	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°	540.8	32.2
0°-40°	859.2	51.2
0°-60°	1420.1	84.6
0°-90°	1678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	725	725	722	718	716	69
15°	683	685	683	680	675	193
25°	607	611	614	610	604	278
35°	488	495	517	520	518	306
45°	378	384	397	415	417	291
55°	265	269	282	298	306	236
65°	155	159	169	181	191	154
75°	62	66	70	74	78	68
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.7	725.7	725.7	725.7	725.7
2.5°	727.6	727.9	726.2	721.8	719.0
5°	724.9	724.6	721.8	717.9	715.7
7.5°	716.8	717.3	716.5	710.9	707.8
10°	709.0	709.2	707.0	702.6	698.9
12.5°	698.9	698.6	695.6	693.4	687.5
15°	683.0	684.7	683.0	680.0	675.2
17.5°	667.7	667.7	668.8	663.5	659.9
20°	650.4	651.3	651.3	647.1	642.9
22.5°	630.3	632.9	633.7	629.2	624.2
25°	606.6	611.4	614.2	609.7	604.4
27.5°	577.9	585.2	593.5	590.2	584.3
30°	545.9	556.5	570.4	567.6	563.4
32.5°	515.5	526.1	545.3	544.2	542.0
35°	487.9	494.6	517.2	519.9	518.0
37.5°	461.7	467.8	489.0	495.4	493.7
40°	434.1	440.8	457.5	468.9	469.5
42.5°	406.8	413.2	426.8	443.3	443.3
45°	377.8	384.2	396.7	414.8	417.1
47.5°	349.3	356.0	368.3	386.4	390.0
50°	321.4	327.6	339.8	357.4	363.0
52.5°	292.5	299.1	311.1	327.3	335.4
55°	264.6	269.0	282.1	297.7	306.4
57.5°	235.6	239.8	254.5	267.9	276.8
60°	207.7	213.0	224.4	238.1	248.4
62.5°	180.9	186.5	196.3	208.3	220.0
65°	155.0	159.2	168.7	180.7	191.0
67.5°	129.9	133.5	143.0	151.4	162.3
70°	104.5	109.3	116.3	124.3	131.3
72.5°	84.2	86.1	92.0	97.9	105.1
75°	62.2	65.5	70.3	73.6	77.8
77.5°	44.6	46.6	49.3	52.1	56.0
80°	29.8	30.7	33.2	33.7	36.8
82.5°	18.1	18.7	19.2	19.5	20.6
85°	9.8	9.8	9.8	9.2	9.2
87.5°	5.6	5.6	4.7	3.9	2.8
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)