

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: P553964

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-93-96-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: P553964
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-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

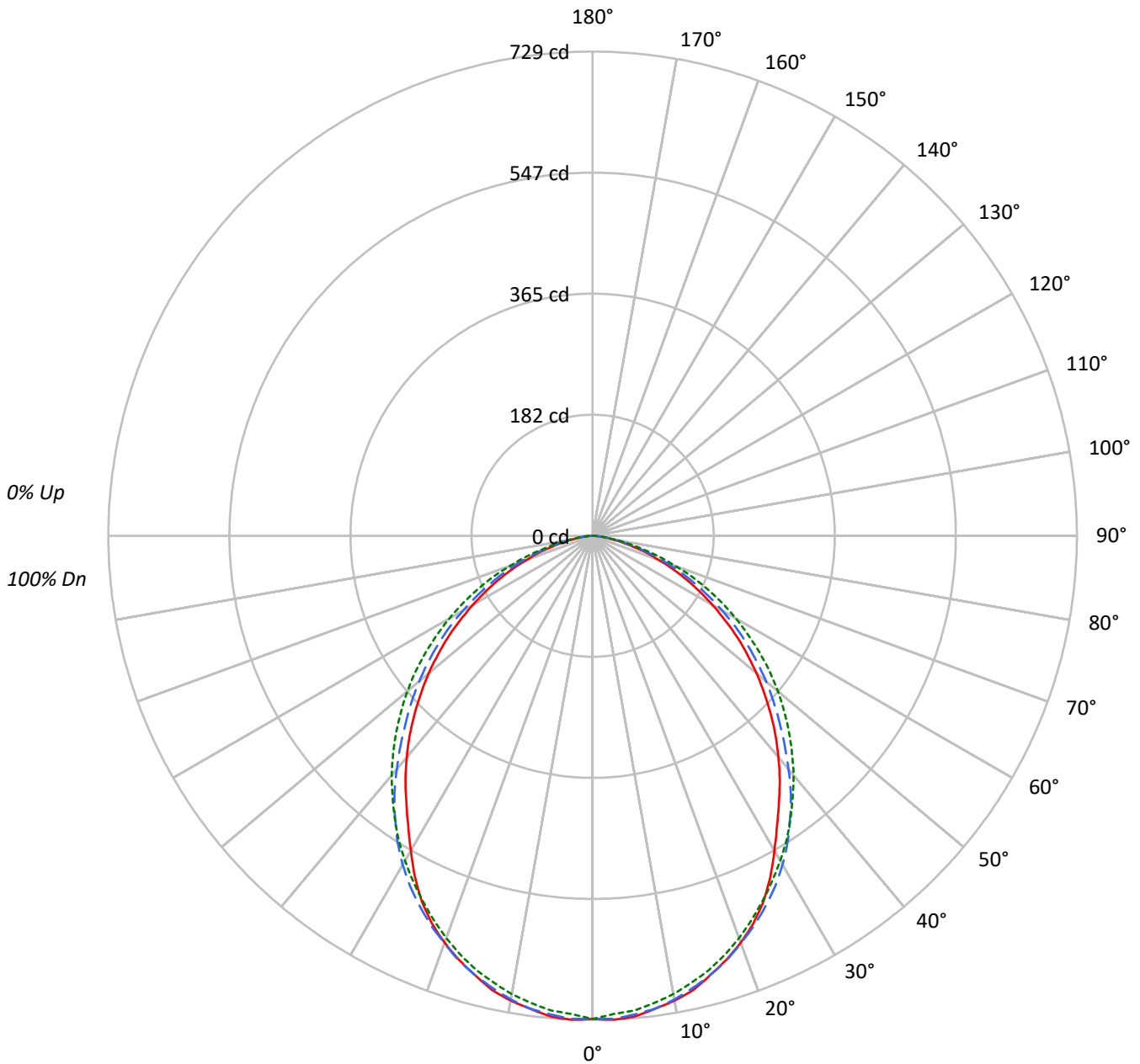
Lumens per Lamp: N/A
Luminaire Lumens: 1682.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3915	3915	3915
5°	3925	3909	3876
10°	3884	3873	3829
15°	3815	3815	3771
20°	3734	3739	3691
25°	3611	3656	3598
30°	3401	3553	3510
35°	3213	3406	3411
40°	3057	3222	3306
45°	2882	3027	3182
50°	2698	2853	3047
55°	2488	2654	2882
60°	2241	2422	2680
65°	1979	2153	2437
70°	1649	1833	2071
75°	1295	1464	1622
80°	927	1032	1144
85°	605	605	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	4.1
10°-20°	192.4	11.4
20°-30°	281.2	16.7
30°-40°	319.2	19.0
40°-50°	308.1	18.3
50°-60°	254.2	15.1
60°-70°	169.3	10.1
70°-80°	75.7	4.5
80°-90°	13.6	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°	542.1	32.2
0°-40°	861.2	51.2
0°-60°	1423.5	84.6
0°-90°	1682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	727	726	724	720	717	69
15°	685	686	685	682	677	193
25°	608	613	616	611	606	278
35°	489	496	518	521	519	306
45°	379	385	398	416	418	292
55°	265	270	283	298	307	237
65°	155	160	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°	727.4	727.4	727.4	727.4	727.4
2.5°	729.4	729.7	728.0	723.5	720.7
5°	726.6	726.3	723.5	719.6	717.4
7.5°	718.5	719.0	718.2	712.6	709.5
10°	710.7	710.9	708.7	704.2	700.6
12.5°	700.6	700.3	697.2	695.0	689.1
15°	684.7	686.3	684.7	681.6	676.8
17.5°	669.3	669.3	670.4	665.1	661.5
20°	652.0	652.8	652.8	648.6	644.4
22.5°	631.8	634.4	635.2	630.7	625.7
25°	608.1	612.8	615.6	611.2	605.9
27.5°	579.3	586.6	595.0	591.6	585.7
30°	547.2	557.8	571.8	569.0	564.8
32.5°	516.7	527.3	546.6	545.5	543.3
35°	489.0	495.8	518.4	521.2	519.2
37.5°	462.8	468.9	490.2	496.6	494.9
40°	435.1	441.8	458.6	470.0	470.6
42.5°	407.7	414.2	427.8	444.3	444.3
45°	378.7	385.1	397.7	415.8	418.1
47.5°	350.2	356.9	369.2	387.3	391.0
50°	322.2	328.4	340.7	358.3	363.9
52.5°	293.1	299.9	311.9	328.1	336.2
55°	265.2	269.7	282.8	298.5	307.1
57.5°	236.1	240.3	255.1	268.6	277.5
60°	208.2	213.5	225.0	238.7	249.0
62.5°	181.4	187.0	196.7	208.8	220.5
65°	155.4	159.6	169.1	181.1	191.4
67.5°	130.2	133.9	143.4	151.7	162.6
70°	104.8	109.5	116.5	124.6	131.6
72.5°	84.4	86.4	92.2	98.1	105.4
75°	62.3	65.7	70.4	73.8	78.0
77.5°	44.7	46.7	49.5	52.3	56.2
80°	29.9	30.7	33.3	33.8	36.9
82.5°	18.2	18.7	19.3	19.6	20.7
85°	9.8	9.8	9.8	9.2	9.2
87.5°	5.6	5.6	4.8	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)