

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: P553884

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-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: P553884
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-82-96-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

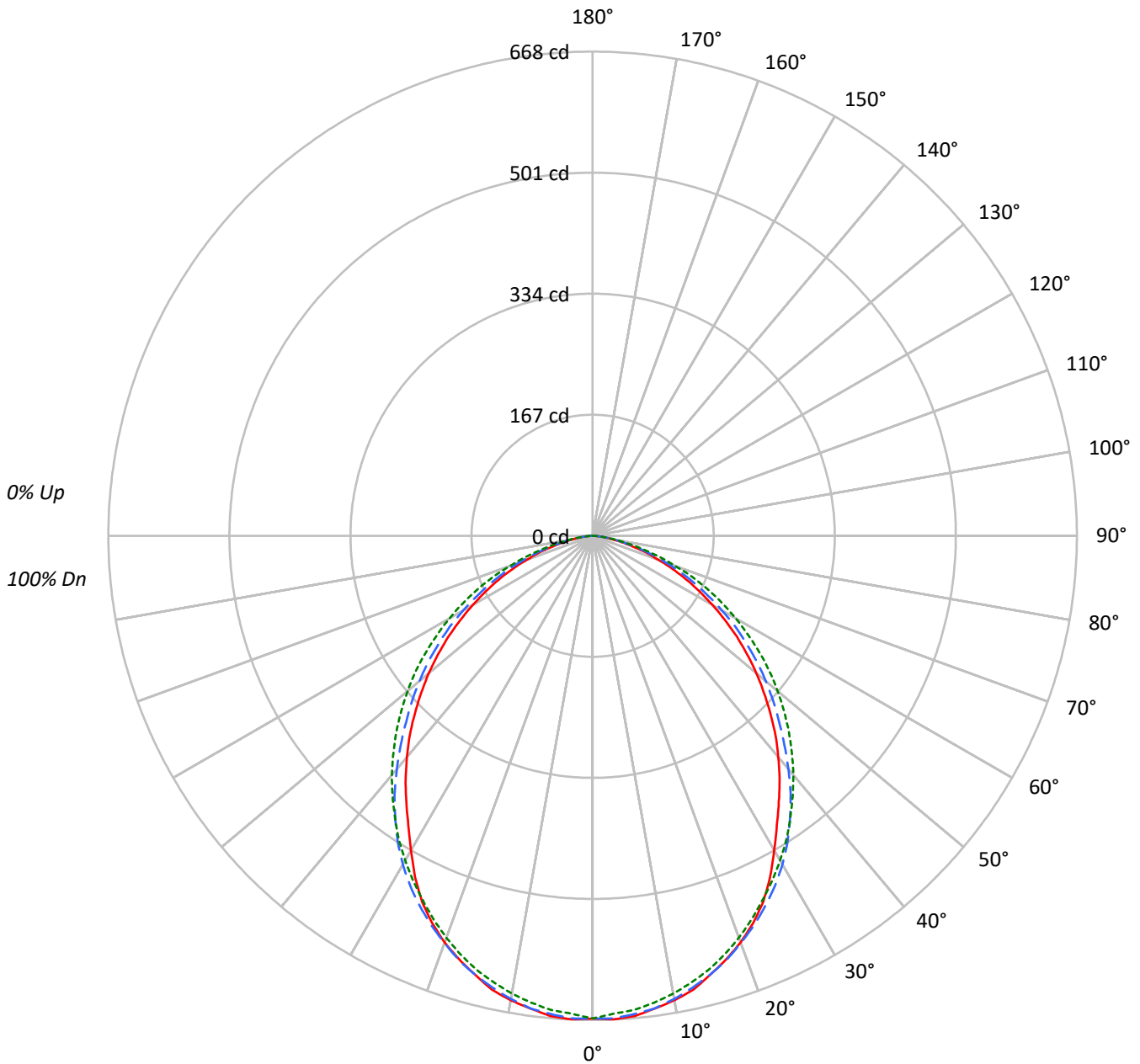
Lumens per Lamp: N/A
Luminaire Lumens: 1540.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	3584	3584	3584
5°	3594	3579	3548
10°	3556	3546	3505
15°	3493	3493	3453
20°	3419	3423	3379
25°	3306	3347	3294
30°	3113	3253	3214
35°	2942	3118	3123
40°	2799	2950	3027
45°	2639	2771	2914
50°	2470	2611	2789
55°	2278	2429	2639
60°	2052	2217	2454
65°	1812	1971	2232
70°	1509	1679	1896
75°	1187	1341	1485
80°	849	942	1048
85°	556	556	519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	4.1
10°-20°	176.2	11.4
20°-30°	257.4	16.7
30°-40°	292.2	19.0
40°-50°	282.1	18.3
50°-60°	232.7	15.1
60°-70°	155.0	10.1
70°-80°	69.3	4.5
80°-90°	12.4	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°	496.3	32.2
0°-40°	788.5	51.2
0°-60°	1303.3	84.6
0°-90°	1540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	665	665	662	659	657	63
15°	627	628	627	624	620	177
25°	557	561	564	560	555	255
35°	448	454	475	477	475	281
45°	347	353	364	381	383	267
55°	243	247	259	273	281	217
65°	142	146	155	166	175	141
75°	57	60	64	68	71	62
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	666.0	666.0	666.0	666.0	666.0
2.5°	667.8	668.1	666.5	662.4	659.9
5°	665.2	665.0	662.4	658.8	656.8
7.5°	657.8	658.3	657.6	652.4	649.6
10°	650.7	650.9	648.9	644.8	641.4
12.5°	641.4	641.2	638.4	636.3	631.0
15°	626.9	628.4	626.9	624.0	619.7
17.5°	612.8	612.8	613.8	609.0	605.6
20°	596.9	597.7	597.7	593.9	590.0
22.5°	578.5	580.8	581.6	577.5	572.9
25°	556.8	561.1	563.7	559.6	554.7
27.5°	530.4	537.1	544.7	541.7	536.3
30°	501.0	510.7	523.5	520.9	517.1
32.5°	473.1	482.8	500.5	499.4	497.4
35°	447.8	453.9	474.6	477.2	475.4
37.5°	423.7	429.3	448.8	454.7	453.1
40°	398.4	404.5	419.9	430.4	430.9
42.5°	373.3	379.2	391.7	406.8	406.8
45°	346.7	352.6	364.1	380.7	382.8
47.5°	320.6	326.7	338.0	354.6	358.0
50°	295.0	300.6	311.9	328.0	333.1
52.5°	268.4	274.5	285.5	300.4	307.8
55°	242.8	246.9	258.9	273.3	281.2
57.5°	216.2	220.0	233.6	245.9	254.1
60°	190.6	195.5	206.0	218.5	228.0
62.5°	166.1	171.2	180.1	191.1	201.9
65°	142.3	146.1	154.8	165.8	175.3
67.5°	119.2	122.6	131.3	138.9	148.9
70°	95.9	100.3	106.7	114.1	120.5
72.5°	77.3	79.1	84.4	89.8	96.5
75°	57.1	60.1	64.5	67.5	71.4
77.5°	40.9	42.7	45.3	47.8	51.4
80°	27.4	28.1	30.4	31.0	33.8
82.5°	16.6	17.1	17.7	17.9	18.9
85°	9.0	9.0	9.0	8.4	8.4
87.5°	5.1	5.1	4.3	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)