

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: P555052

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-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: P555052
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-LD4-2LO-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

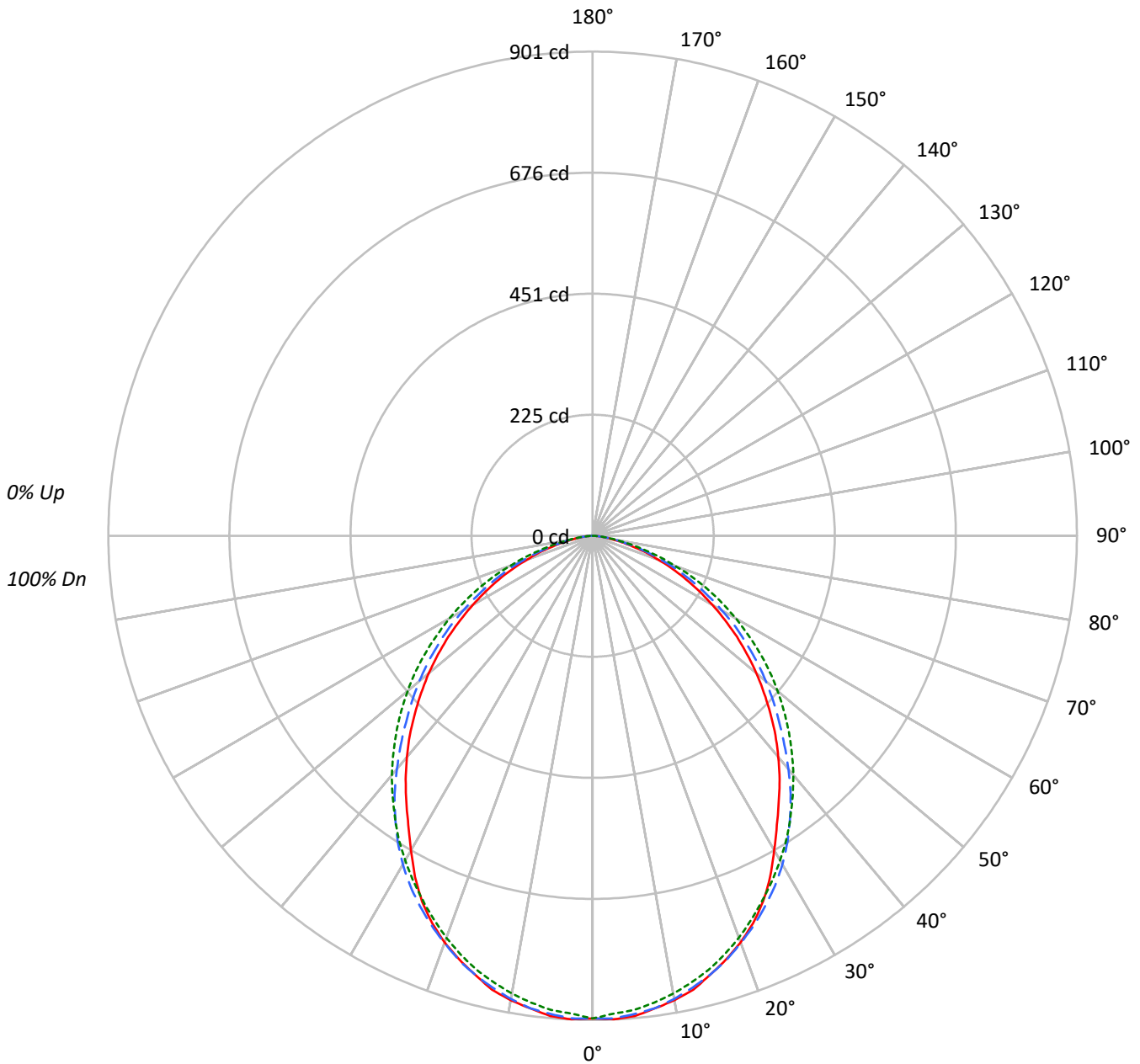
Lumens per Lamp: N/A
Luminaire Lumens: 2077.0 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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									
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°	4834	4834	4834
5°	4847	4827	4786
10°	4796	4782	4728
15°	4711	4711	4657
20°	4611	4617	4558
25°	4459	4514	4442
30°	4199	4387	4334
35°	3968	4206	4213
40°	3775	3979	4083
45°	3559	3738	3929
50°	3332	3522	3762
55°	3073	3277	3558
60°	2767	2990	3310
65°	2444	2659	3011
70°	2036	2264	2557
75°	1601	1809	2002
80°	1144	1274	1413
85°	747	747	704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	4.1
10°-20°	237.6	11.4
20°-30°	347.2	16.7
30°-40°	394.1	19.0
40°-50°	380.5	18.3
50°-60°	313.8	15.1
60°-70°	209.0	10.1
70°-80°	93.5	4.5
80°-90°	16.7	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°	669.4	32.2
0°-40°	1063.5	51.2
0°-60°	1757.8	84.6
0°-90°	2077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	897	897	893	889	886	85
15°	846	848	846	842	836	238
25°	751	757	760	755	748	344
35°	604	612	640	644	641	378
45°	468	476	491	514	516	361
55°	328	333	349	368	379	292
65°	192	197	209	224	236	190
75°	77	81	87	91	96	84
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.2	898.2	898.2	898.2	898.2
2.5°	900.7	901.0	898.9	893.4	890.0
5°	897.2	896.9	893.4	888.6	885.8
7.5°	887.2	887.9	886.9	880.0	876.2
10°	877.5	877.9	875.1	869.6	865.1
12.5°	865.1	864.8	861.0	858.2	851.0
15°	845.5	847.5	845.5	841.7	835.8
17.5°	826.5	826.5	827.9	821.3	816.8
20°	805.1	806.1	806.1	800.9	795.8
22.5°	780.2	783.3	784.4	778.9	772.6
25°	750.9	756.8	760.2	754.7	748.1
27.5°	715.4	724.3	734.7	730.5	723.3
30°	675.7	688.8	706.0	702.6	697.4
32.5°	638.1	651.2	675.0	673.6	670.8
35°	603.9	612.2	640.1	643.6	641.2
37.5°	571.5	579.0	605.3	613.2	611.1
40°	537.3	545.6	566.3	580.4	581.1
42.5°	503.5	511.4	528.3	548.7	548.7
45°	467.6	475.5	491.1	513.5	516.2
47.5°	432.4	440.7	455.9	478.3	482.8
50°	397.9	405.5	420.7	442.4	449.3
52.5°	362.0	370.3	385.1	405.1	415.1
55°	327.5	333.0	349.2	368.5	379.2
57.5°	291.6	296.8	315.1	331.6	342.7
60°	257.1	263.6	277.8	294.7	307.5
62.5°	224.0	230.9	242.9	257.8	272.3
65°	191.9	197.0	208.8	223.6	236.4
67.5°	160.8	165.3	177.0	187.4	200.8
70°	129.4	135.3	143.9	153.9	162.5
72.5°	104.2	106.6	113.9	121.1	130.1
75°	77.0	81.1	87.0	91.1	96.3
77.5°	55.2	57.6	61.1	64.5	69.4
80°	36.9	38.0	41.1	41.8	45.6
82.5°	22.4	23.1	23.8	24.2	25.5
85°	12.1	12.1	12.1	11.4	11.4
87.5°	6.9	6.9	5.9	4.8	3.5
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)