

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: P554954

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-81-94-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: P554954
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-35-UNV-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

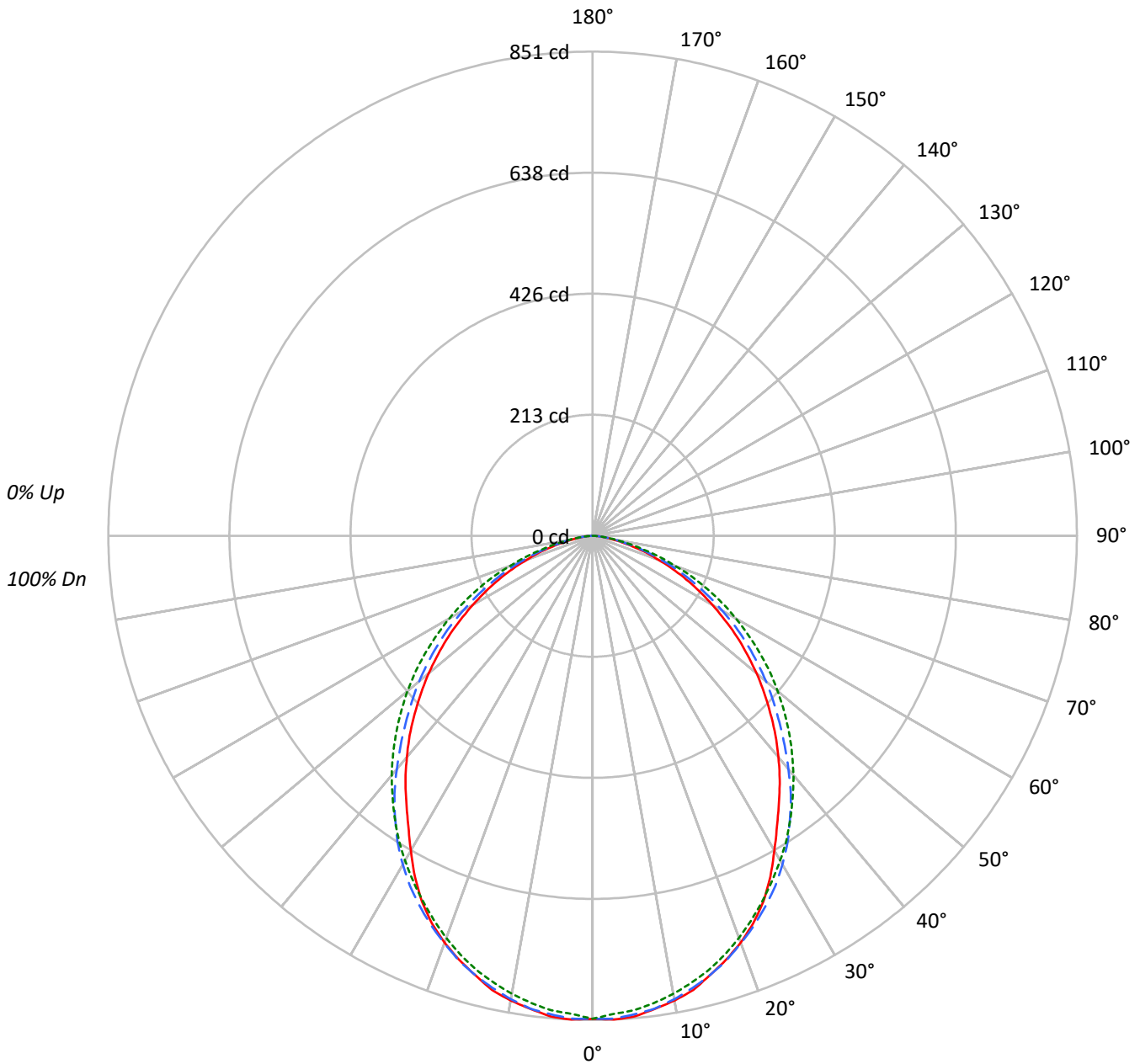
Lumens per Lamp: N/A
Luminaire Lumens: 1963.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4569	4569	4569
5°	4581	4562	4523
10°	4533	4520	4468
15°	4452	4452	4401
20°	4358	4364	4308
25°	4214	4267	4199
30°	3969	4147	4096
35°	3750	3975	3982
40°	3568	3760	3858
45°	3363	3532	3714
50°	3148	3329	3555
55°	2904	3097	3363
60°	2616	2826	3128
65°	2309	2513	2845
70°	1924	2140	2417
75°	1512	1709	1892
80°	1082	1203	1336
85°	704	704	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	4.1
10°-20°	224.5	11.4
20°-30°	328.1	16.7
30°-40°	372.5	19.0
40°-50°	359.6	18.3
50°-60°	296.6	15.1
60°-70°	197.5	10.1
70°-80°	88.4	4.5
80°-90°	15.8	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°	632.6	32.2
0°-40°	1005.1	51.2
0°-60°	1661.3	84.6
0°-90°	1963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	848	848	844	840	837	80
15°	799	801	799	796	790	225
25°	710	715	718	713	707	325
35°	571	579	605	608	606	358
45°	442	449	464	485	488	341
55°	310	315	330	348	358	276
65°	181	186	197	211	223	180
75°	73	77	82	86	91	80
85°	11	11	11	11	11	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	848.9	848.9	848.9	848.9	848.9
2.5°	851.2	851.6	849.6	844.4	841.1
5°	848.0	847.6	844.4	839.8	837.2
7.5°	838.5	839.2	838.2	831.7	828.1
10°	829.4	829.7	827.1	821.9	817.6
12.5°	817.6	817.3	813.7	811.1	804.3
15°	799.0	801.0	799.0	795.5	789.9
17.5°	781.1	781.1	782.4	776.2	772.0
20°	760.9	761.9	761.9	757.0	752.1
22.5°	737.4	740.3	741.3	736.1	730.2
25°	709.7	715.2	718.5	713.3	707.1
27.5°	676.1	684.6	694.4	690.4	683.6
30°	638.6	651.0	667.3	664.0	659.1
32.5°	603.0	615.4	637.9	636.6	634.0
35°	570.7	578.6	605.0	608.3	606.0
37.5°	540.1	547.3	572.1	579.6	577.6
40°	507.8	515.6	535.2	548.6	549.2
42.5°	475.8	483.3	499.3	518.6	518.6
45°	441.9	449.4	464.1	485.3	487.9
47.5°	408.7	416.5	430.8	452.0	456.3
50°	376.0	383.2	397.6	418.1	424.6
52.5°	342.1	350.0	364.0	382.9	392.3
55°	309.5	314.7	330.1	348.3	358.4
57.5°	275.6	280.5	297.8	313.4	323.9
60°	243.0	249.2	262.5	278.5	290.6
62.5°	211.7	218.2	229.6	243.6	257.3
65°	181.3	186.2	197.3	211.3	223.4
67.5°	152.0	156.2	167.3	177.1	189.8
70°	122.3	127.8	136.0	145.5	153.6
72.5°	98.5	100.8	107.6	114.5	123.0
75°	72.7	76.6	82.2	86.1	91.0
77.5°	52.2	54.5	57.7	61.0	65.6
80°	34.9	35.9	38.8	39.5	43.1
82.5°	21.2	21.9	22.5	22.8	24.1
85°	11.4	11.4	11.4	10.8	10.8
87.5°	6.5	6.5	5.5	4.6	3.3
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)