

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: P555059

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-80-85-EDD**

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: P555059
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-50-UNV-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

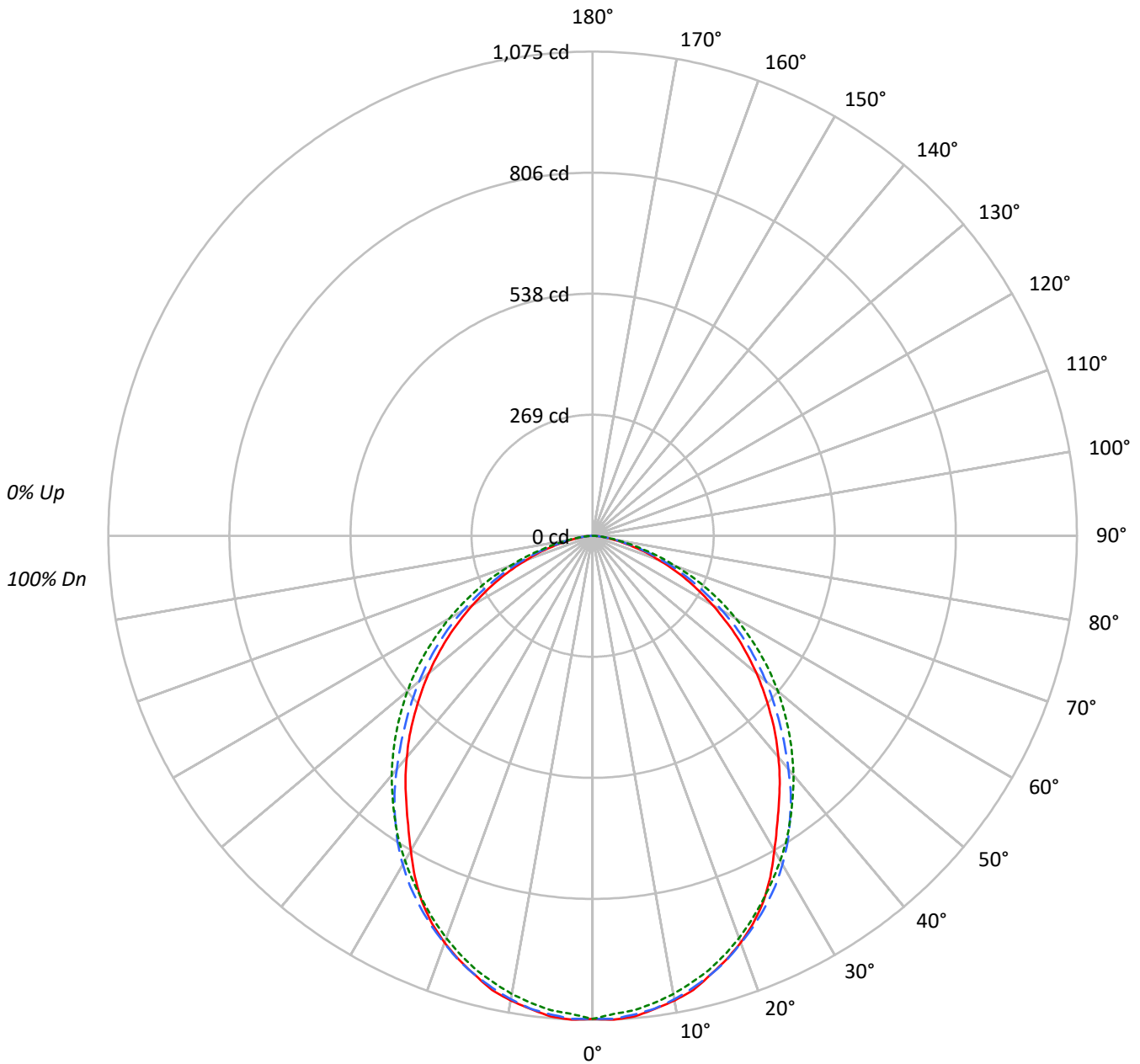
Lumens per Lamp: N/A
Luminaire Lumens: 2480.0 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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: P555059

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-80-85-EDD

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°	5772	5772	5772
5°	5788	5763	5714
10°	5726	5710	5645
15°	5625	5625	5561
20°	5506	5513	5442
25°	5324	5390	5305
30°	5014	5239	5175
35°	4738	5022	5030
40°	4507	4751	4875
45°	4249	4462	4692
50°	3978	4206	4492
55°	3669	3913	4249
60°	3305	3570	3951
65°	2918	3175	3594
70°	2431	2703	3054
75°	1911	2158	2391
80°	1367	1519	1686
85°	889	889	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	4.1
10°-20°	283.7	11.4
20°-30°	414.6	16.7
30°-40°	470.6	19.0
40°-50°	454.3	18.3
50°-60°	374.7	15.1
60°-70°	249.6	10.1
70°-80°	111.7	4.5
80°-90°	20.0	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°	799.2	32.2
0°-40°	1269.8	51.2
0°-60°	2098.8	84.6
0°-90°	2480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1071	1071	1067	1061	1058	101
15°	1010	1012	1010	1005	998	285
25°	897	904	908	901	893	411
35°	721	731	764	768	766	452
45°	558	568	586	613	616	431
55°	391	398	417	440	453	349
65°	229	235	249	267	282	227
75°	92	97	104	109	115	100
85°	14	14	14	14	14	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1072.5	1072.5	1072.5	1072.5	1072.5
2.5°	1075.4	1075.8	1073.4	1066.8	1062.6
5°	1071.3	1070.9	1066.8	1061.0	1057.7
7.5°	1059.4	1060.2	1058.9	1050.7	1046.2
10°	1047.8	1048.2	1044.9	1038.3	1033.0
12.5°	1033.0	1032.6	1028.0	1024.7	1016.1
15°	1009.5	1012.0	1009.5	1005.0	998.0
17.5°	986.8	986.8	988.5	980.7	975.3
20°	961.3	962.5	962.5	956.3	950.2
22.5°	931.6	935.3	936.6	930.0	922.6
25°	896.6	903.6	907.7	901.1	893.3
27.5°	854.2	864.9	877.2	872.3	863.6
30°	806.8	822.4	843.0	838.9	832.7
32.5°	761.9	777.5	805.9	804.3	801.0
35°	721.1	731.0	764.3	768.5	765.6
37.5°	682.3	691.4	722.7	732.2	729.7
40°	641.5	651.4	676.2	693.0	693.9
42.5°	601.2	610.6	630.8	655.1	655.1
45°	558.3	567.8	586.3	613.1	616.4
47.5°	516.3	526.2	544.3	571.1	576.4
50°	475.1	484.1	502.3	528.2	536.5
52.5°	432.2	442.1	459.8	483.7	495.7
55°	391.0	397.6	417.0	440.1	452.8
57.5°	348.2	354.4	376.2	396.0	409.2
60°	307.0	314.8	331.7	351.9	367.1
62.5°	267.4	275.7	290.1	307.8	325.1
65°	229.1	235.3	249.3	267.0	282.2
67.5°	192.0	197.4	211.4	223.7	239.8
70°	154.5	161.5	171.8	183.8	194.1
72.5°	124.4	127.3	136.0	144.6	155.3
75°	91.9	96.8	103.8	108.8	115.0
77.5°	65.9	68.8	72.9	77.1	82.8
80°	44.1	45.3	49.0	49.9	54.4
82.5°	26.8	27.6	28.4	28.8	30.5
85°	14.4	14.4	14.4	13.6	13.6
87.5°	8.2	8.2	7.0	5.8	4.1
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)