

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: P555000

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-80-88-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: P555000  
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-80-88-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

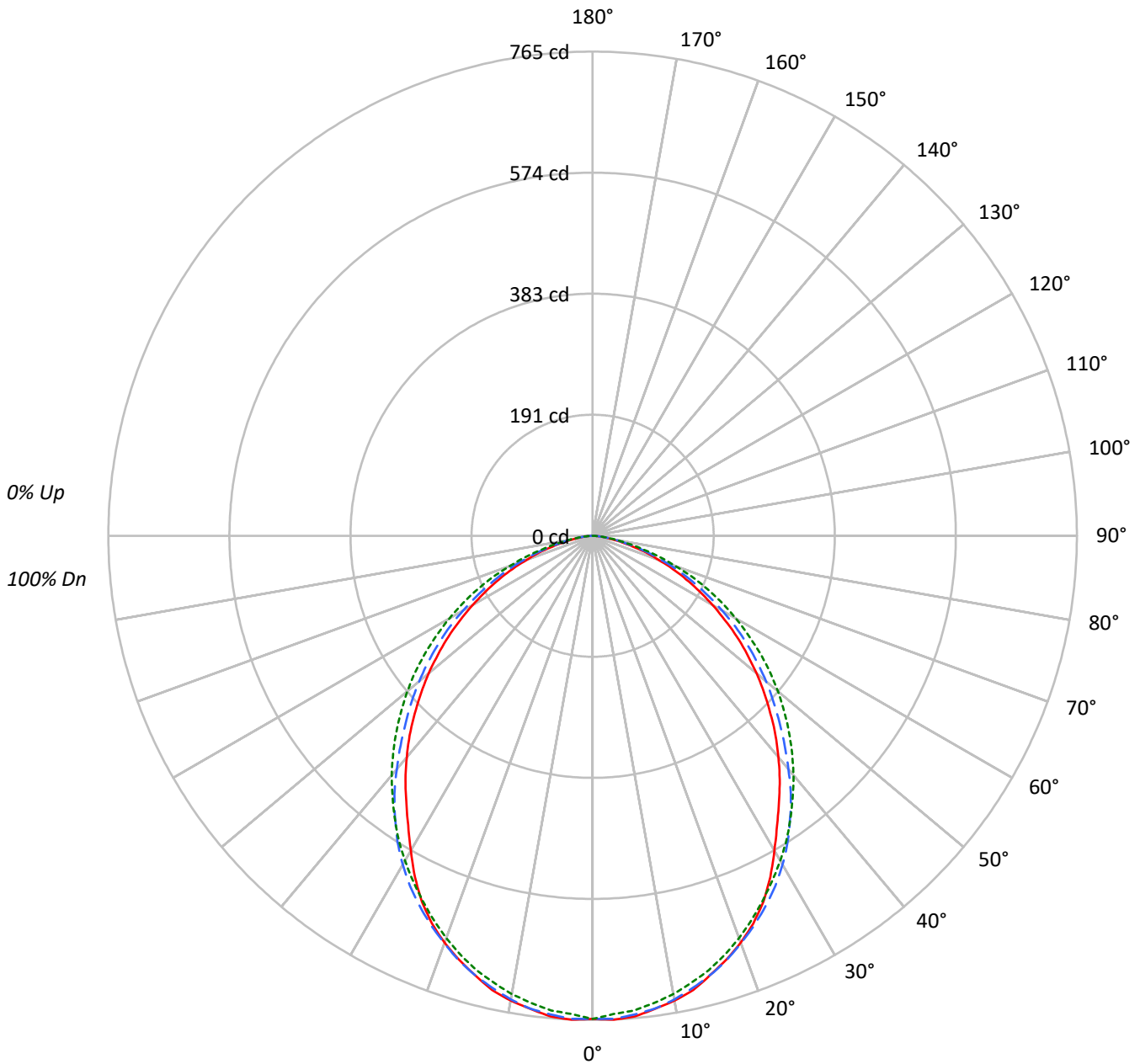
Lumens per Lamp: N/A  
Luminaire Lumens: 1765.0 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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

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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°	4108	4108	4108
5°	4119	4102	4067
10°	4075	4064	4018
15°	4003	4003	3957
20°	3918	3923	3873
25°	3789	3836	3776
30°	3568	3729	3683
35°	3372	3574	3579
40°	3208	3381	3469
45°	3024	3176	3339
50°	2831	2993	3197
55°	2611	2785	3024
60°	2352	2541	2813
65°	2076	2259	2558
70°	1731	1924	2173
75°	1360	1537	1701
80°	973	1082	1199
85°	636	636	599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.9	4.1
10°-20°	201.9	11.4
20°-30°	295.0	16.7
30°-40°	334.9	19.0
40°-50°	323.3	18.3
50°-60°	266.7	15.1
60°-70°	177.6	10.1
70°-80°	79.5	4.5
80°-90°	14.2	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°	568.8	32.2
0°-40°	903.7	51.2
0°-60°	1493.7	84.6
0°-90°	1765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1765.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	763	763	763	763	763	
5°	762	762	759	755	753	72
15°	718	720	718	715	710	203
25°	638	643	646	641	636	292
35°	513	520	544	547	545	322
45°	397	404	417	436	439	307
55°	278	283	297	313	322	248
65°	163	167	177	190	201	162
75°	65	69	74	77	82	72
85°	10	10	10	10	10	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	763.3	763.3	763.3	763.3	763.3
2.5°	765.4	765.7	763.9	759.2	756.3
5°	762.4	762.1	759.2	755.1	752.8
7.5°	753.9	754.5	753.6	747.8	744.5
10°	745.7	746.0	743.7	739.0	735.2
12.5°	735.2	734.9	731.6	729.3	723.1
15°	718.5	720.2	718.5	715.2	710.2
17.5°	702.3	702.3	703.5	697.9	694.1
20°	684.1	685.0	685.0	680.6	676.2
22.5°	663.0	665.7	666.5	661.9	656.6
25°	638.1	643.1	646.0	641.3	635.8
27.5°	607.9	615.5	624.3	620.8	614.6
30°	574.2	585.3	600.0	597.0	592.6
32.5°	542.2	553.4	573.6	572.4	570.1
35°	513.2	520.2	544.0	546.9	544.8
37.5°	485.6	492.1	514.4	521.1	519.3
40°	456.6	463.6	481.2	493.2	493.8
42.5°	427.8	434.6	449.0	466.3	466.3
45°	397.3	404.1	417.3	436.3	438.7
47.5°	367.4	374.5	387.4	406.4	410.2
50°	338.1	344.6	357.5	375.9	381.8
52.5°	307.6	314.7	327.3	344.3	352.8
55°	278.3	283.0	296.8	313.2	322.3
57.5°	247.8	252.2	267.7	281.8	291.2
60°	218.5	224.0	236.1	250.4	261.3
62.5°	190.3	196.2	206.4	219.1	231.4
65°	163.0	167.4	177.4	190.0	200.9
67.5°	136.7	140.5	150.4	159.2	170.7
70°	110.0	115.0	122.3	130.8	138.1
72.5°	88.6	90.6	96.8	102.9	110.6
75°	65.4	68.9	73.9	77.4	81.8
77.5°	46.9	49.0	51.9	54.8	58.9
80°	31.4	32.3	34.9	35.5	38.7
82.5°	19.1	19.6	20.2	20.5	21.7
85°	10.3	10.3	10.3	9.7	9.7
87.5°	5.9	5.9	5.0	4.1	2.9
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)