

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: P554933

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-80-86-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: P554933  
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-80-86-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

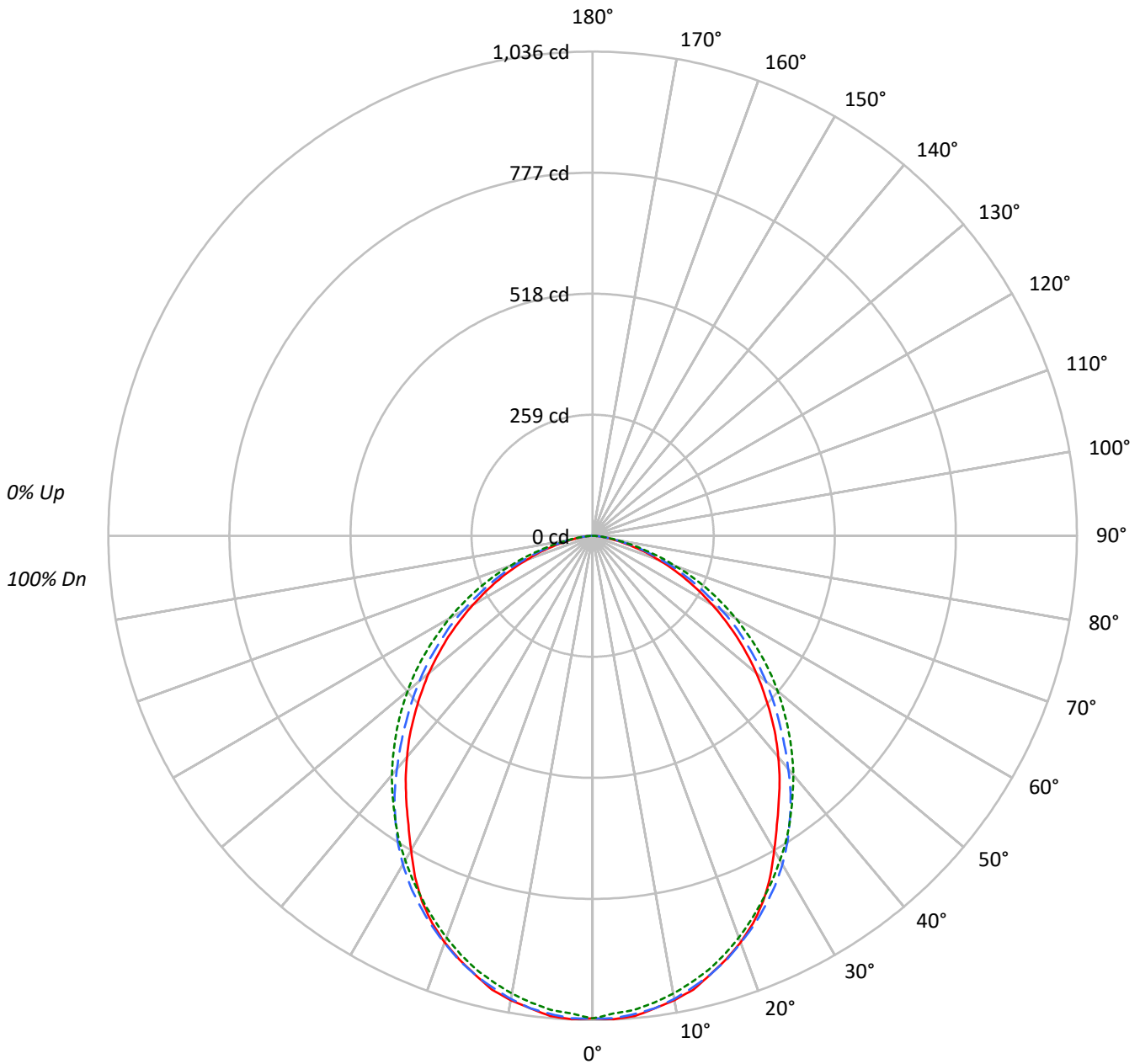
Lumens per Lamp: N/A  
Luminaire Lumens: 2388.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	5558	5558	5558
5°	5573	5549	5502
10°	5514	5499	5436
15°	5416	5416	5354
20°	5301	5308	5240
25°	5127	5190	5108
30°	4827	5045	4983
35°	4562	4836	4844
40°	4340	4574	4694
45°	4092	4297	4517
50°	3831	4049	4325
55°	3533	3767	4091
60°	3182	3438	3805
65°	2809	3056	3461
70°	2341	2603	2941
75°	1840	2079	2302
80°	1317	1463	1624
85°	858	858	809



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.2	4.1
10°-20°	273.2	11.4
20°-30°	399.2	16.7
30°-40°	453.1	19.0
40°-50°	437.4	18.3
50°-60°	360.8	15.1
60°-70°	240.3	10.1
70°-80°	107.5	4.5
80°-90°	19.2	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°	769.6	32.2
0°-40°	1222.7	51.2
0°-60°	2020.9	84.6
0°-90°	2388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2388.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1033	1033	1033	1033	1033	
5°	1032	1031	1027	1022	1018	98
15°	972	974	972	968	961	274
25°	863	870	874	868	860	395
35°	694	704	736	740	737	435
45°	538	547	565	590	594	415
55°	376	383	402	424	436	336
65°	221	226	240	257	272	219
75°	88	93	100	105	111	97
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1035.5	1035.9	1033.5	1027.2	1023.2
5°	1031.6	1031.2	1027.2	1021.6	1018.5
7.5°	1020.1	1020.8	1019.7	1011.7	1007.4
10°	1008.9	1009.3	1006.2	999.8	994.7
12.5°	994.7	994.3	989.9	986.7	978.4
15°	972.0	974.4	972.0	967.7	960.9
17.5°	950.2	950.2	951.8	944.3	939.1
20°	925.6	926.8	926.8	920.9	914.9
22.5°	897.1	900.6	901.8	895.5	888.3
25°	863.3	870.1	874.0	867.7	860.2
27.5°	822.5	832.8	844.7	839.9	831.6
30°	776.8	791.9	811.8	807.8	801.8
32.5°	733.6	748.7	776.0	774.5	771.3
35°	694.3	703.8	736.0	739.9	737.2
37.5°	657.0	665.8	695.9	705.0	702.6
40°	617.7	627.3	651.1	667.3	668.1
42.5°	578.9	588.0	607.4	630.8	630.8
45°	537.6	546.7	564.6	590.4	593.5
47.5°	497.1	506.7	524.1	549.9	555.1
50°	457.5	466.2	483.6	508.6	516.6
52.5°	416.2	425.7	442.8	465.8	477.3
55°	376.5	382.9	401.5	423.7	436.0
57.5°	335.3	341.2	362.2	381.3	394.0
60°	295.6	303.1	319.4	338.8	353.5
62.5°	257.5	265.4	279.3	296.4	313.0
65°	220.6	226.5	240.0	257.1	271.8
67.5°	184.9	190.0	203.5	215.4	230.9
70°	148.8	155.5	165.4	177.0	186.9
72.5°	119.8	122.6	130.9	139.3	149.6
75°	88.5	93.2	100.0	104.7	110.7
77.5°	63.5	66.3	70.2	74.2	79.7
80°	42.5	43.6	47.2	48.0	52.4
82.5°	25.8	26.6	27.4	27.8	29.4
85°	13.9	13.9	13.9	13.1	13.1
87.5°	7.9	7.9	6.7	5.6	4.0
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)