

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: P555061

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-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: P555061  
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-80-86-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

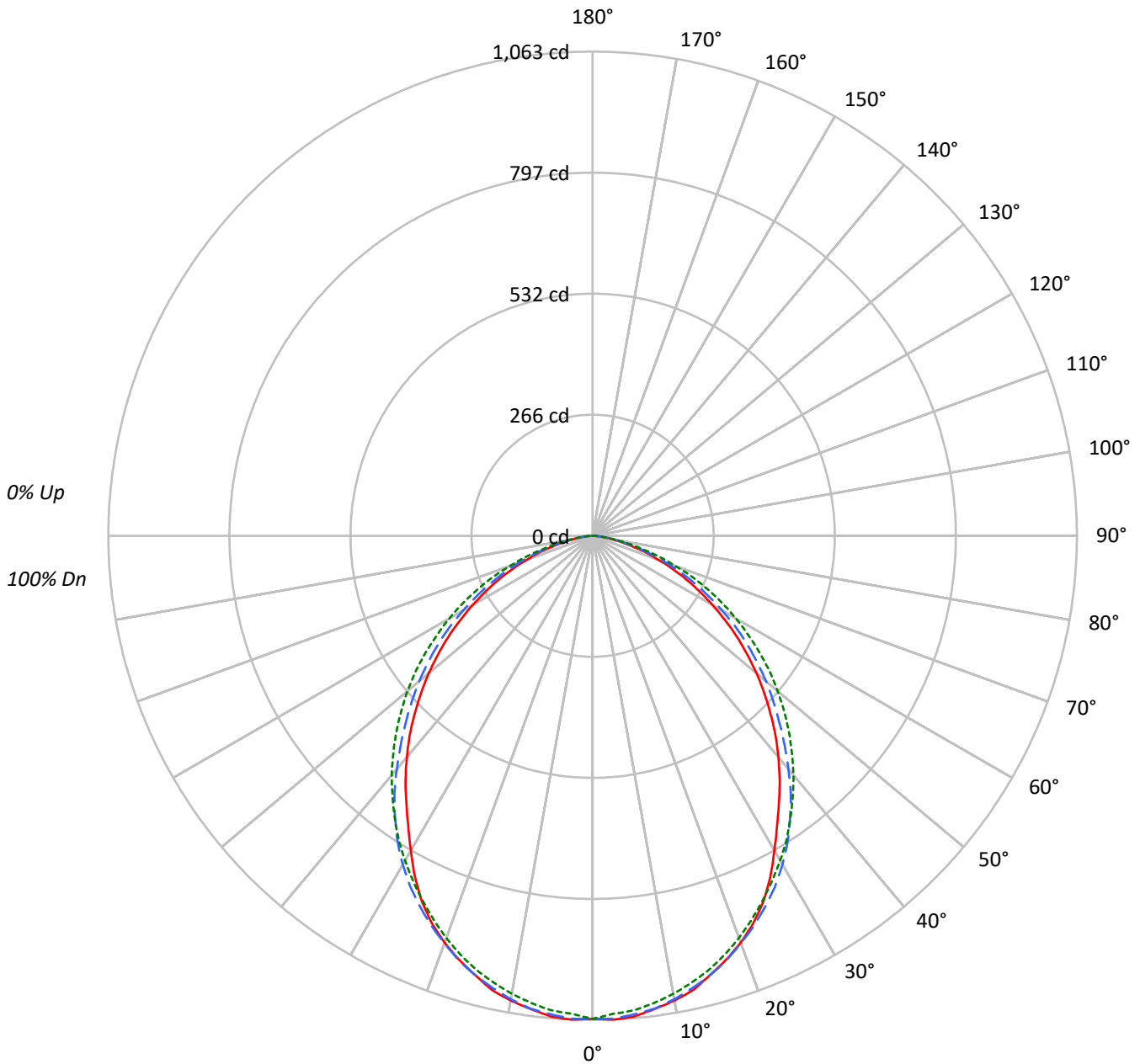
Lumens per Lamp: N/A  
Luminaire Lumens: 2452.0 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (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°	5707	5707	5707
5°	5722	5698	5650
10°	5662	5646	5581
15°	5561	5561	5498
20°	5443	5451	5380
25°	5264	5330	5245
30°	4957	5180	5116
35°	4684	4965	4973
40°	4456	4697	4820
45°	4201	4412	4638
50°	3933	4158	4441
55°	3628	3869	4201
60°	3267	3529	3907
65°	2884	3139	3554
70°	2404	2674	3020
75°	1888	2136	2364
80°	1351	1503	1667
85°	883	883	827



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.8	4.1
10°-20°	280.5	11.4
20°-30°	409.9	16.7
30°-40°	465.3	19.0
40°-50°	449.1	18.3
50°-60°	370.5	15.1
60°-70°	246.7	10.1
70°-80°	110.4	4.5
80°-90°	19.7	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°	790.2	32.2
0°-40°	1255.5	51.2
0°-60°	2075.1	84.6
0°-90°	2452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2452.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1059	1059	1055	1049	1046	100
15°	998	1000	998	994	987	281
25°	886	893	898	891	883	406
35°	713	723	756	760	757	447
45°	552	561	580	606	609	426
55°	387	393	412	435	448	345
65°	226	233	246	264	279	225
75°	91	96	103	108	114	99
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°	1060.4	1060.4	1060.4	1060.4	1060.4
2.5°	1063.3	1063.7	1061.2	1054.7	1050.6
5°	1059.2	1058.8	1054.7	1049.0	1045.8
7.5°	1047.4	1048.2	1047.0	1038.8	1034.4
10°	1036.0	1036.4	1033.1	1026.6	1021.3
12.5°	1021.3	1020.9	1016.4	1013.2	1004.6
15°	998.1	1000.5	998.1	993.6	986.7
17.5°	975.7	975.7	977.3	969.6	964.3
20°	950.4	951.7	951.7	945.5	939.4
22.5°	921.1	924.8	926.0	919.5	912.1
25°	886.5	893.4	897.5	891.0	883.2
27.5°	844.5	855.1	867.3	862.4	853.9
30°	797.7	813.1	833.5	829.4	823.3
32.5°	753.3	768.7	796.8	795.2	792.0
35°	712.9	722.7	755.7	759.8	756.9
37.5°	674.6	683.6	714.6	723.9	721.5
40°	634.3	644.1	668.5	685.2	686.0
42.5°	594.4	603.7	623.7	647.7	647.7
45°	552.0	561.4	579.7	606.2	609.4
47.5°	510.5	520.2	538.2	564.6	569.9
50°	469.7	478.7	496.6	522.3	530.4
52.5°	427.3	437.1	454.6	478.3	490.1
55°	386.6	393.1	412.3	435.1	447.7
57.5°	344.2	350.4	371.9	391.5	404.5
60°	303.5	311.2	327.9	347.9	363.0
62.5°	264.4	272.5	286.8	304.3	321.4
65°	226.5	232.6	246.5	264.0	279.1
67.5°	189.8	195.1	209.0	221.2	237.1
70°	152.8	159.7	169.9	181.7	191.9
72.5°	123.0	125.9	134.4	143.0	153.6
75°	90.8	95.7	102.7	107.5	113.7
77.5°	65.2	68.0	72.1	76.2	81.9
80°	43.6	44.8	48.5	49.3	53.8
82.5°	26.5	27.3	28.1	28.5	30.1
85°	14.3	14.3	14.3	13.4	13.4
87.5°	8.1	8.1	6.9	5.7	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)