

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: P555254

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-80-87-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: P555254  
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-LD4-2STD-40-UNV-80-87-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

**Summary**

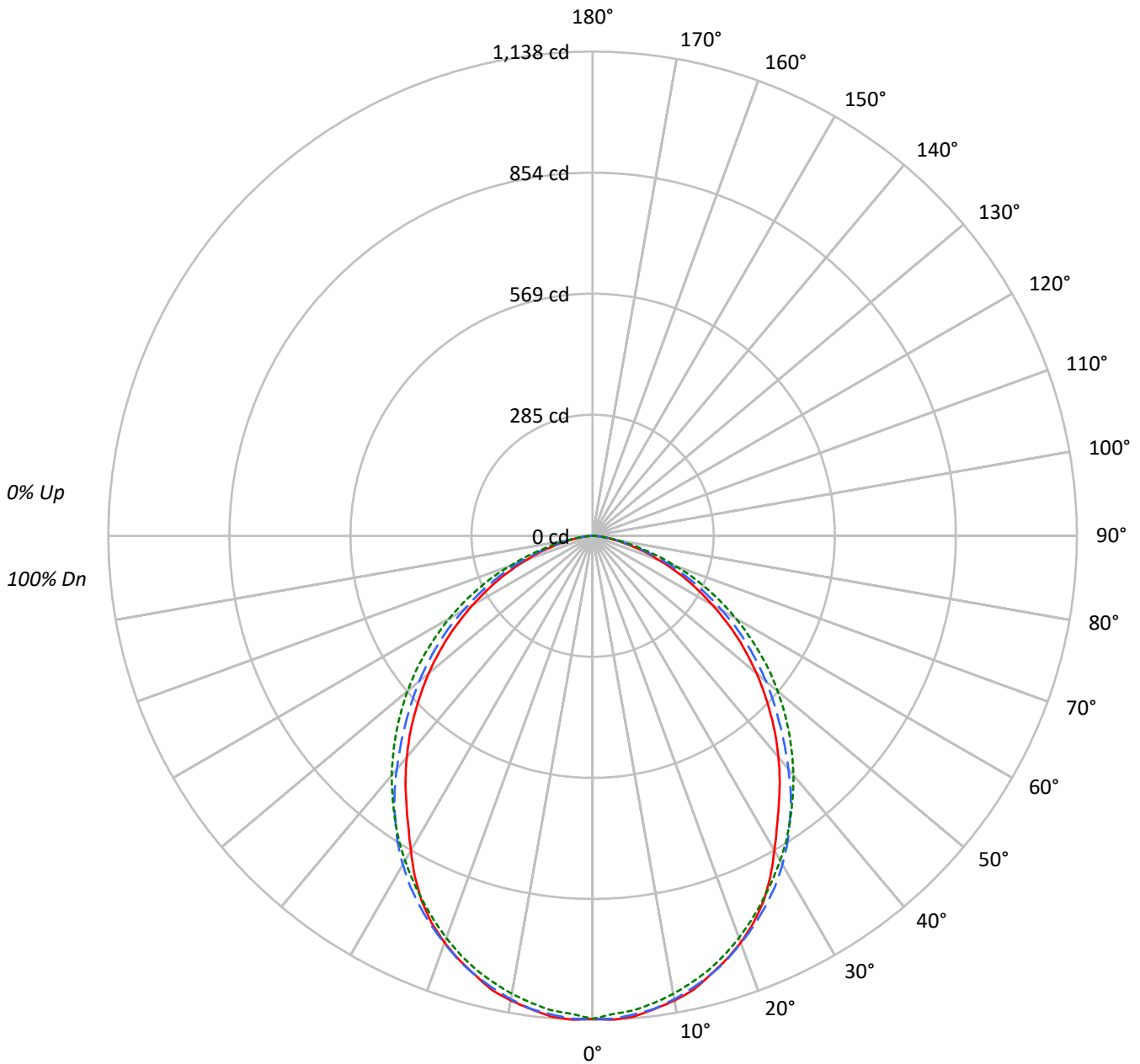
Lumens per Lamp: N/A  
Luminaire Lumens: 2625.0 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	6110	6110	6110
5°	6126	6100	6048
10°	6061	6044	5975
15°	5953	5953	5886
20°	5828	5835	5760
25°	5635	5706	5615
30°	5307	5545	5478
35°	5014	5315	5324
40°	4771	5028	5160
45°	4498	4724	4966
50°	4211	4451	4754
55°	3884	4142	4497
60°	3497	3779	4183
65°	3088	3361	3804
70°	2573	2862	3232
75°	2023	2285	2531
80°	1447	1609	1785
85°	945	945	889



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.9	4.1
10°-20°	300.3	11.4
20°-30°	438.8	16.7
30°-40°	498.1	19.0
40°-50°	480.8	18.3
50°-60°	396.7	15.1
60°-70°	264.1	10.1
70°-80°	118.2	4.5
80°-90°	21.1	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°	846.0	32.2
0°-40°	1344.0	51.2
0°-60°	2221.5	84.6
0°-90°	2625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2625.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1134	1134	1129	1123	1120	107
15°	1068	1071	1068	1064	1056	301
25°	949	956	961	954	946	435
35°	763	774	809	813	810	478
45°	591	601	621	649	652	456
55°	414	421	441	466	479	369
65°	242	249	264	283	299	240
75°	97	102	110	115	122	106
85°	15	15	15	14	14	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1135.2	1135.2	1135.2	1135.2	1135.2
2.5°	1138.3	1138.7	1136.1	1129.1	1124.8
5°	1133.9	1133.5	1129.1	1123.0	1119.5
7.5°	1121.3	1122.2	1120.9	1112.1	1107.3
10°	1109.1	1109.5	1106.0	1099.0	1093.4
12.5°	1093.4	1092.9	1088.1	1084.7	1075.5
15°	1068.5	1071.1	1068.5	1063.7	1056.3
17.5°	1044.5	1044.5	1046.3	1038.0	1032.3
20°	1017.5	1018.8	1018.8	1012.3	1005.7
22.5°	986.1	990.0	991.3	984.3	976.5
25°	949.0	956.4	960.8	953.8	945.5
27.5°	904.1	915.4	928.5	923.3	914.1
30°	853.9	870.5	892.3	888.0	881.4
32.5°	806.4	823.0	853.1	851.3	847.8
35°	763.2	773.7	809.0	813.4	810.3
37.5°	722.2	731.8	765.0	775.0	772.4
40°	679.1	689.5	715.7	733.6	734.4
42.5°	636.3	646.3	667.7	693.4	693.4
45°	591.0	601.0	620.6	649.0	652.4
47.5°	546.5	556.9	576.1	604.5	610.1
50°	502.9	512.5	531.6	559.1	567.8
52.5°	457.5	468.0	486.7	512.0	524.7
55°	413.9	420.9	441.4	465.8	479.3
57.5°	368.5	375.1	398.2	419.1	433.1
60°	324.9	333.2	351.1	372.5	388.6
62.5°	283.0	291.8	307.0	325.8	344.1
65°	242.5	249.0	263.9	282.6	298.7
67.5°	203.2	208.9	223.7	236.8	253.8
70°	163.5	171.0	181.9	194.5	205.4
72.5°	131.7	134.8	143.9	153.1	164.4
75°	97.3	102.5	109.9	115.1	121.7
77.5°	69.8	72.8	77.2	81.6	87.7
80°	46.7	48.0	51.9	52.8	57.6
82.5°	28.3	29.2	30.1	30.5	32.3
85°	15.3	15.3	15.3	14.4	14.4
87.5°	8.7	8.7	7.4	6.1	4.4
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)