

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: P555257

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-80-88-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: P555257  
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-80-88-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

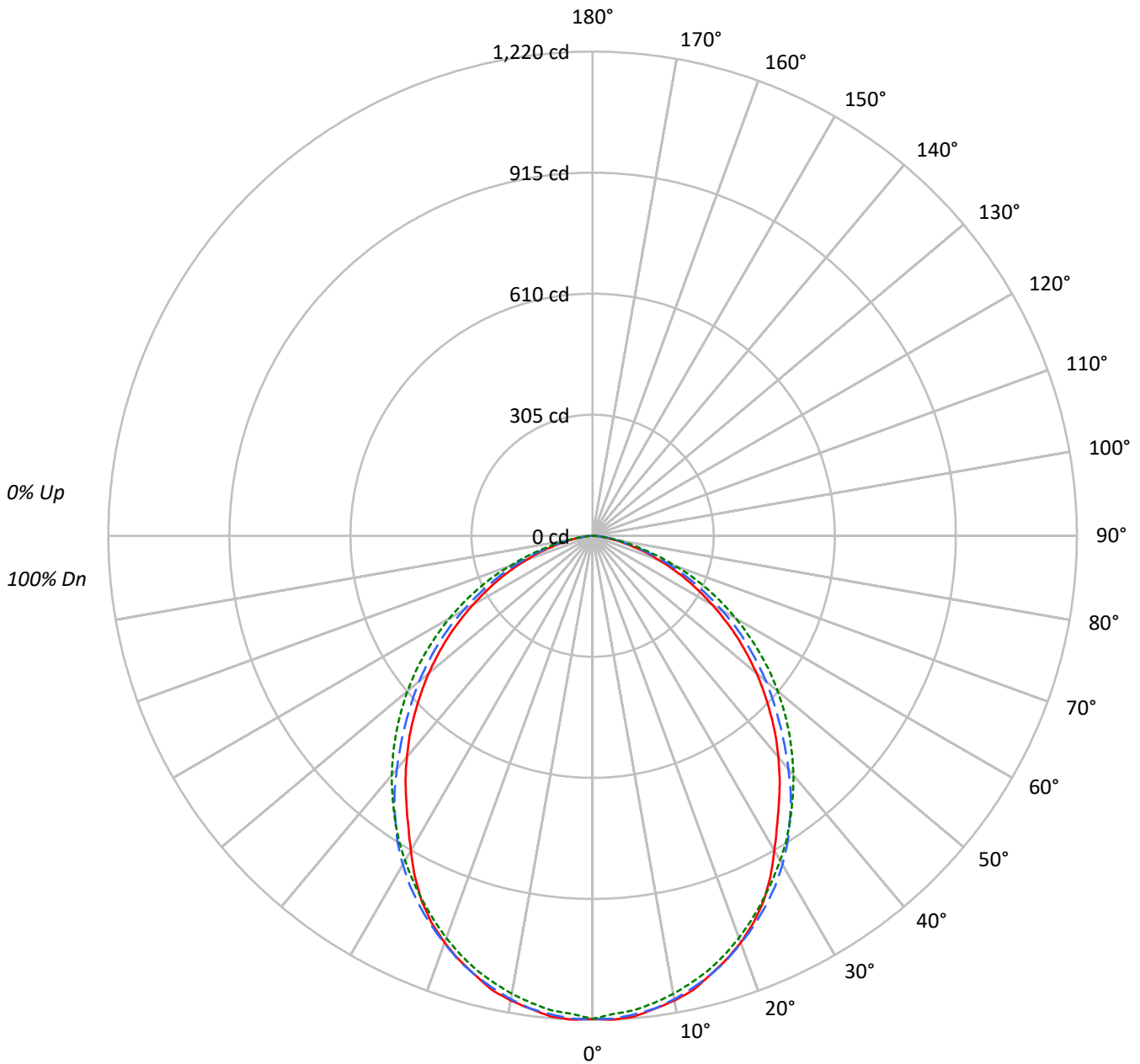
Lumens per Lamp: N/A  
Luminaire Lumens: 2814.0 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (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°	6550	6550	6550
5°	6567	6539	6484
10°	6497	6480	6406
15°	6383	6383	6310
20°	6247	6255	6175
25°	6041	6116	6019
30°	5689	5945	5872
35°	5376	5698	5707
40°	5114	5390	5531
45°	4822	5064	5323
50°	4514	4772	5097
55°	4163	4439	4821
60°	3749	4052	4484
65°	3310	3603	4079
70°	2758	3068	3465
75°	2169	2450	2712
80°	1550	1723	1912
85°	1013	1013	951



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.6	4.1
10°-20°	321.9	11.4
20°-30°	470.4	16.7
30°-40°	533.9	19.0
40°-50°	515.4	18.3
50°-60°	425.2	15.1
60°-70°	283.2	10.1
70°-80°	126.7	4.5
80°-90°	22.7	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°	906.9	32.2
0°-40°	1440.8	51.2
0°-60°	2381.5	84.6
0°-90°	2814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2814.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1217	1217	1217	1217	1217	
5°	1216	1215	1210	1204	1200	115
15°	1146	1148	1146	1140	1132	323
25°	1017	1025	1030	1022	1014	466
35°	818	829	867	872	869	513
45°	634	644	665	696	699	489
55°	444	451	473	499	514	396
65°	260	267	283	303	320	258
75°	104	110	118	123	130	114
85°	16	16	16	15	15	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1217.0	1217.0	1217.0	1217.0	1217.0
2.5°	1220.3	1220.7	1217.9	1210.4	1205.8
5°	1215.6	1215.1	1210.4	1203.9	1200.2
7.5°	1202.0	1203.0	1201.6	1192.2	1187.1
10°	1188.9	1189.4	1185.7	1178.2	1172.1
12.5°	1172.1	1171.6	1166.5	1162.7	1152.9
15°	1145.5	1148.3	1145.5	1140.3	1132.4
17.5°	1119.7	1119.7	1121.6	1112.7	1106.6
20°	1090.7	1092.2	1092.2	1085.1	1078.1
22.5°	1057.1	1061.3	1062.7	1055.2	1046.8
25°	1017.3	1025.3	1030.0	1022.5	1013.6
27.5°	969.2	981.3	995.4	989.8	979.9
30°	915.4	933.2	956.6	951.9	944.9
32.5°	864.5	882.2	914.5	912.6	908.9
35°	818.2	829.4	867.3	871.9	868.7
37.5°	774.2	784.5	820.0	830.8	828.0
40°	727.9	739.2	767.2	786.4	787.3
42.5°	682.1	692.9	715.8	743.4	743.4
45°	633.5	644.3	665.3	695.7	699.4
47.5°	585.8	597.0	617.6	648.0	654.1
50°	539.1	549.3	569.9	599.4	608.7
52.5°	490.4	501.7	521.8	548.9	562.4
55°	443.7	451.2	473.1	499.3	513.8
57.5°	395.1	402.1	426.9	449.3	464.3
60°	348.3	357.2	376.4	399.3	416.6
62.5°	303.4	312.8	329.1	349.2	368.9
65°	259.9	267.0	282.9	303.0	320.3
67.5°	217.9	223.9	239.8	253.9	272.1
70°	175.3	183.3	195.0	208.5	220.2
72.5°	141.2	144.5	154.3	164.1	176.3
75°	104.3	109.9	117.8	123.4	130.4
77.5°	74.8	78.1	82.8	87.4	94.0
80°	50.0	51.4	55.6	56.6	61.7
82.5°	30.4	31.3	32.3	32.7	34.6
85°	16.4	16.4	16.4	15.4	15.4
87.5°	9.4	9.4	7.9	6.5	4.7
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)