

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: P555666

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-82-85-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: P555666  
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-LD4-3LO-30-UNV-82-85-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

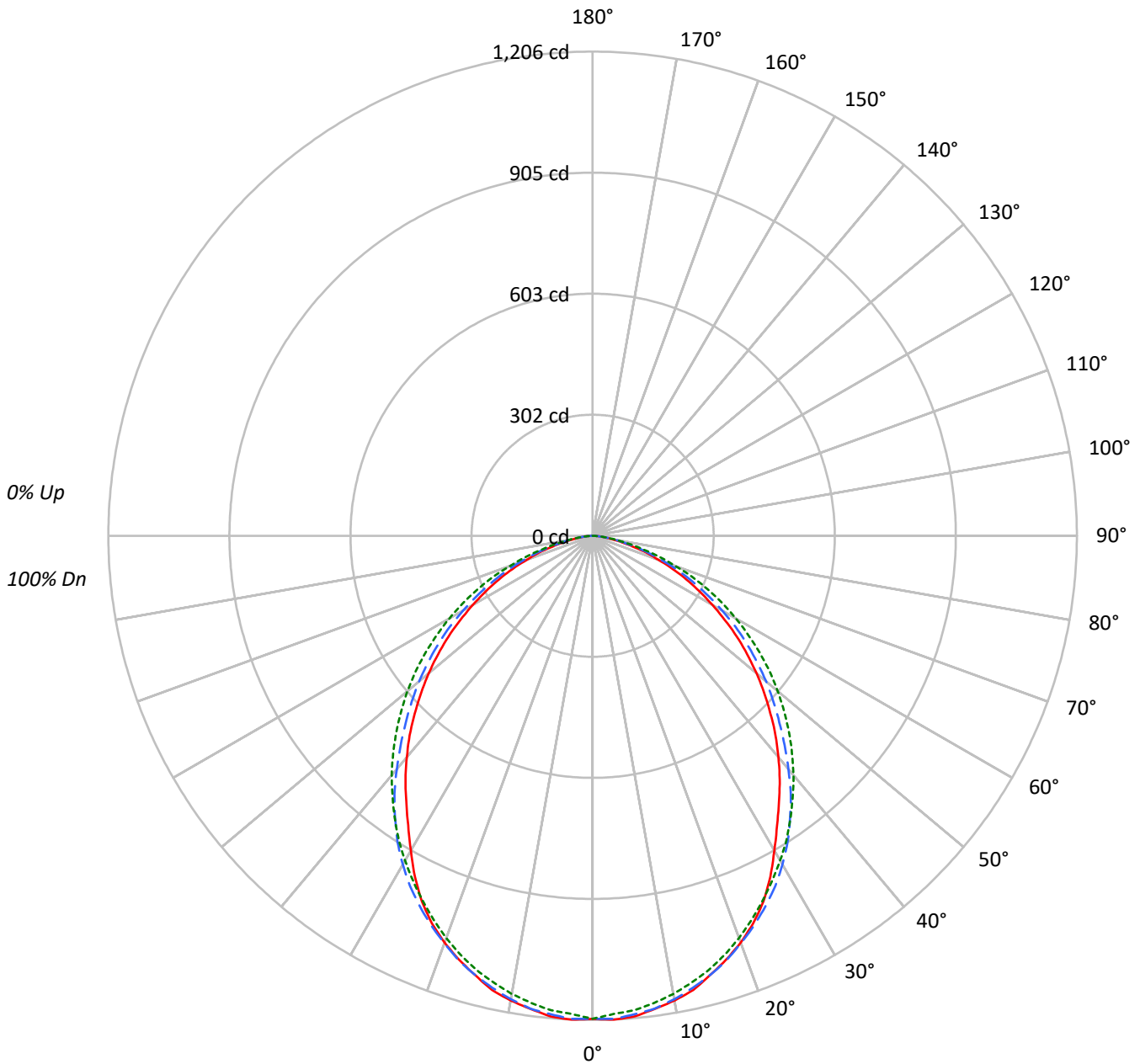
Lumens per Lamp: N/A  
Luminaire Lumens: 2782.0 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
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				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6475	6475	6475
5°	6493	6465	6410
10°	6424	6406	6333
15°	6310	6310	6238
20°	6176	6184	6105
25°	5973	6047	5951
30°	5624	5877	5805
35°	5315	5633	5642
40°	5056	5329	5469
45°	4767	5006	5263
50°	4462	4717	5039
55°	4115	4389	4767
60°	3706	4005	4433
65°	3273	3561	4032
70°	2727	3032	3426
75°	2144	2423	2682
80°	1534	1705	1891
85°	1000	1000	945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.3	4.1
10°-20°	318.2	11.4
20°-30°	465.0	16.7
30°-40°	527.9	19.0
40°-50°	509.6	18.3
50°-60°	420.4	15.1
60°-70°	279.9	10.1
70°-80°	125.3	4.5
80°-90°	22.4	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°	896.6	32.2
0°-40°	1424.4	51.2
0°-60°	2354.4	84.6
0°-90°	2782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2782.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1202	1201	1197	1190	1186	114
15°	1132	1135	1132	1127	1120	319
25°	1006	1014	1018	1011	1002	461
35°	809	820	857	862	859	507
45°	626	637	658	688	692	483
55°	439	446	468	494	508	391
65°	257	264	280	300	317	255
75°	103	109	116	122	129	113
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°	1203.1	1203.1	1203.1	1203.1	1203.1
2.5°	1206.4	1206.8	1204.1	1196.7	1192.1
5°	1201.8	1201.3	1196.7	1190.2	1186.5
7.5°	1188.4	1189.3	1187.9	1178.6	1173.6
10°	1175.4	1175.9	1172.2	1164.8	1158.8
12.5°	1158.8	1158.3	1153.2	1149.5	1139.8
15°	1132.4	1135.2	1132.4	1127.3	1119.5
17.5°	1107.0	1107.0	1108.9	1100.1	1094.1
20°	1078.3	1079.7	1079.7	1072.8	1065.9
22.5°	1045.1	1049.2	1050.6	1043.2	1034.9
25°	1005.8	1013.6	1018.3	1010.9	1002.1
27.5°	958.2	970.2	984.1	978.5	968.8
30°	905.0	922.6	945.7	941.1	934.1
32.5°	854.6	872.2	904.1	902.2	898.5
35°	808.9	820.0	857.4	862.0	858.8
37.5°	765.4	775.6	810.7	821.4	818.6
40°	719.7	730.8	758.5	777.4	778.4
42.5°	674.4	685.0	707.6	734.9	734.9
45°	626.3	636.9	657.7	687.8	691.5
47.5°	579.2	590.2	610.6	640.6	646.6
50°	532.9	543.1	563.4	592.6	601.8
52.5°	484.9	496.0	515.8	542.6	556.0
55°	438.6	446.0	467.8	493.6	508.0
57.5°	390.6	397.5	422.0	444.2	459.0
60°	344.3	353.1	372.1	394.7	411.8
62.5°	300.0	309.2	325.4	345.3	364.7
65°	257.0	263.9	279.6	299.5	316.6
67.5°	215.4	221.4	237.1	251.0	269.0
70°	173.3	181.2	192.7	206.1	217.7
72.5°	139.6	142.8	152.5	162.2	174.3
75°	103.1	108.6	116.5	122.0	129.0
77.5°	74.0	77.2	81.8	86.4	92.9
80°	49.5	50.8	55.0	55.9	61.0
82.5°	30.0	31.0	31.9	32.4	34.2
85°	16.2	16.2	16.2	15.3	15.3
87.5°	9.2	9.2	7.9	6.5	4.6
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)