

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: P555225

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-82-88-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: P555225  
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-35-UNV-82-88-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

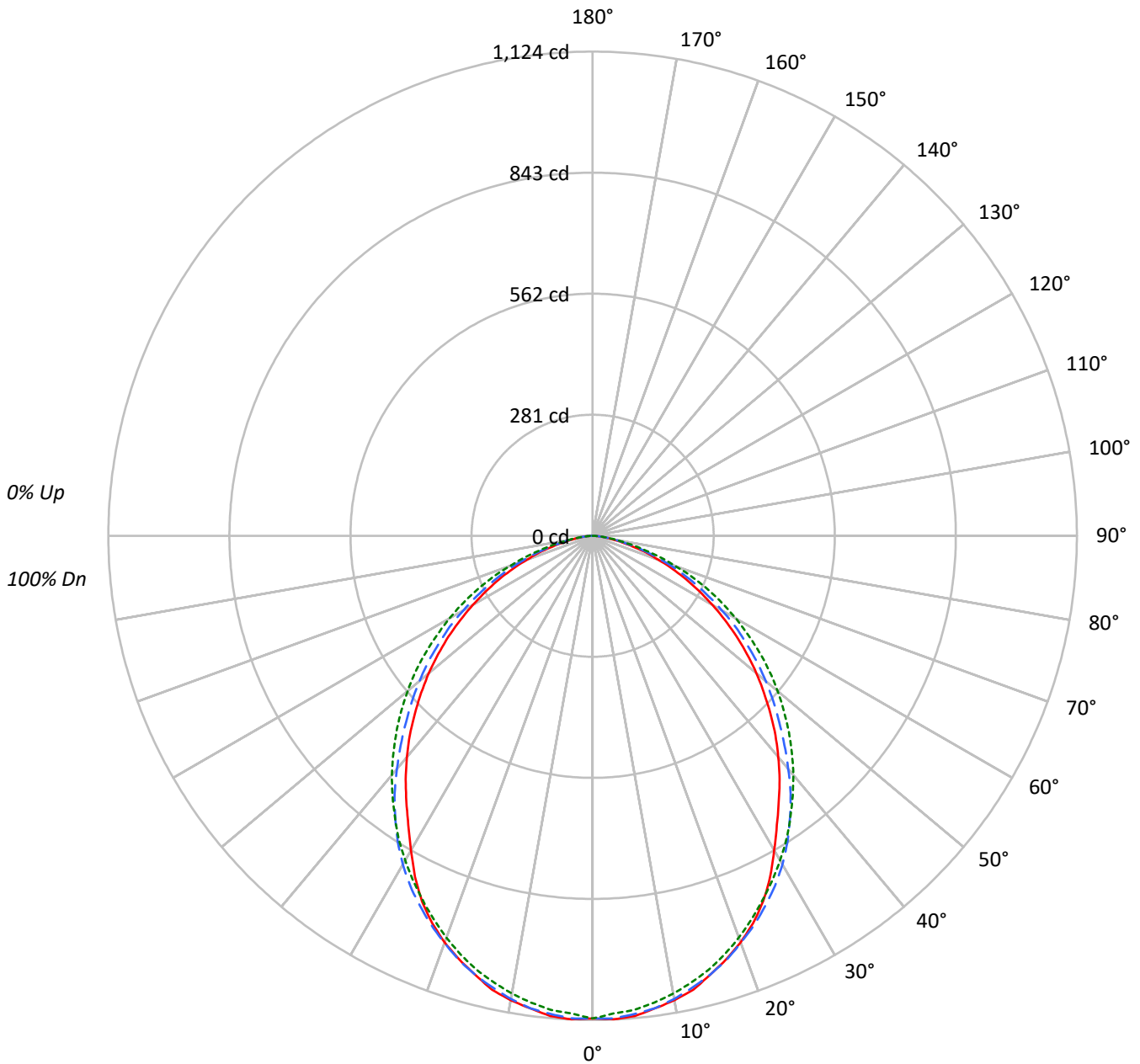
Lumens per Lamp: N/A  
Luminaire Lumens: 2591.0 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (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°	6030	6030	6030
5°	6046	6021	5970
10°	5983	5966	5898
15°	5877	5877	5809
20°	5752	5759	5686
25°	5562	5631	5542
30°	5238	5474	5407
35°	4949	5246	5255
40°	4709	4963	5093
45°	4440	4663	4902
50°	4155	4394	4693
55°	3833	4087	4439
60°	3452	3730	4129
65°	3047	3316	3755
70°	2540	2825	3191
75°	1996	2256	2497
80°	1429	1587	1760
85°	932	932	877



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.5	4.1
10°-20°	296.4	11.4
20°-30°	433.1	16.7
30°-40°	491.6	19.0
40°-50°	474.6	18.3
50°-60°	391.5	15.1
60°-70°	260.7	10.1
70°-80°	116.7	4.5
80°-90°	20.9	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°	835.0	32.2
0°-40°	1326.6	51.2
0°-60°	2192.8	84.6
0°-90°	2591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2591.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1119	1119	1114	1108	1105	106
15°	1055	1057	1055	1050	1043	297
25°	937	944	948	942	933	429
35°	753	764	798	803	800	472
45°	583	593	613	641	644	450
55°	408	415	436	460	473	365
65°	239	246	260	279	295	237
75°	96	101	108	114	120	105
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1120.5	1120.5	1120.5	1120.5	1120.5
2.5°	1123.6	1124.0	1121.4	1114.5	1110.2
5°	1119.2	1118.8	1114.5	1108.5	1105.0
7.5°	1106.8	1107.6	1106.3	1097.7	1093.0
10°	1094.7	1095.1	1091.7	1084.8	1079.2
12.5°	1079.2	1078.8	1074.0	1070.6	1061.6
15°	1054.7	1057.3	1054.7	1049.9	1042.6
17.5°	1031.0	1031.0	1032.7	1024.5	1018.9
20°	1004.3	1005.6	1005.6	999.1	992.7
22.5°	973.3	977.2	978.5	971.6	963.8
25°	936.7	944.0	948.3	941.5	933.3
27.5°	892.4	903.6	916.5	911.3	902.3
30°	842.9	859.2	880.8	876.5	870.0
32.5°	796.0	812.3	842.0	840.3	836.9
35°	753.3	763.7	798.5	802.8	799.8
37.5°	712.9	722.3	755.1	765.0	762.4
40°	670.3	680.6	706.4	724.1	724.9
42.5°	628.1	638.0	659.1	684.5	684.5
45°	583.3	593.2	612.6	640.6	644.0
47.5°	539.4	549.7	568.7	596.6	602.2
50°	496.3	505.8	524.8	551.9	560.5
52.5°	451.6	461.9	480.4	505.4	517.9
55°	408.5	415.4	435.6	459.8	473.1
57.5°	363.8	370.2	393.0	413.7	427.5
60°	320.7	328.9	346.5	367.6	383.6
62.5°	279.4	288.0	303.1	321.6	339.6
65°	239.3	245.8	260.4	279.0	294.9
67.5°	200.6	206.2	220.8	233.8	250.5
70°	161.4	168.7	179.5	192.0	202.8
72.5°	130.0	133.0	142.1	151.1	162.3
75°	96.0	101.2	108.5	113.6	120.1
77.5°	68.9	71.9	76.2	80.5	86.5
80°	46.1	47.4	51.2	52.1	56.8
82.5°	28.0	28.8	29.7	30.1	31.9
85°	15.1	15.1	15.1	14.2	14.2
87.5°	8.6	8.6	7.3	6.0	4.3
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)