

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: P555191

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-80-87-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: P555191  
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-80-87-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

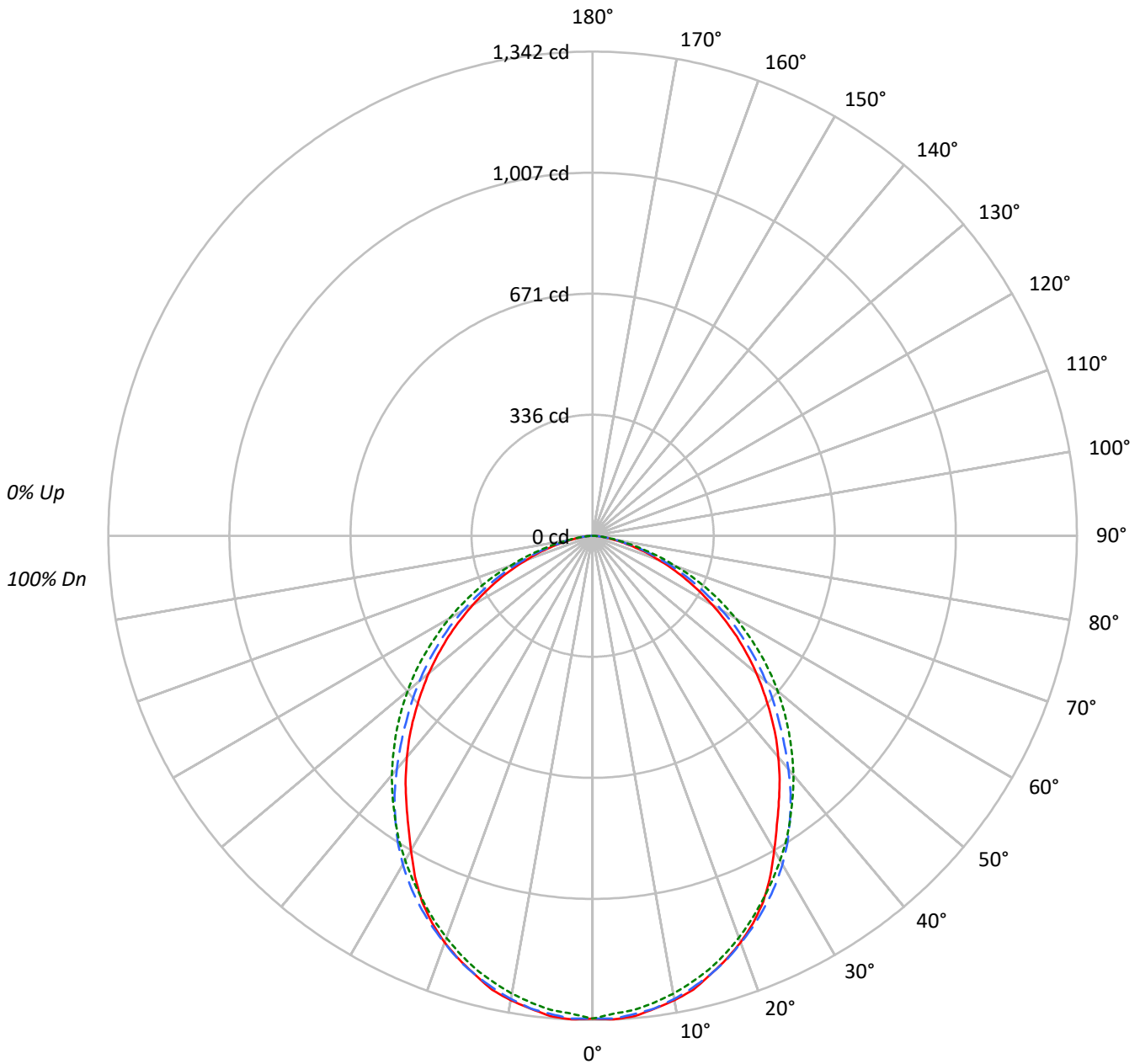
Lumens per Lamp: N/A  
Luminaire Lumens: 3094.0 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	7202	7202	7202
5°	7220	7190	7129
10°	7144	7124	7043
15°	7017	7017	6937
20°	6869	6877	6789
25°	6643	6725	6618
30°	6255	6536	6456
35°	5911	6265	6275
40°	5623	5927	6082
45°	5301	5568	5853
50°	4963	5246	5604
55°	4577	4881	5301
60°	4123	4454	4930
65°	3640	3961	4484
70°	3034	3374	3810
75°	2383	2693	2982
80°	1705	1897	2104
85°	1112	1112	1050



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.0	4.1
10°-20°	353.9	11.4
20°-30°	517.2	16.7
30°-40°	587.1	19.0
40°-50°	566.7	18.3
50°-60°	467.5	15.1
60°-70°	311.3	10.1
70°-80°	139.3	4.5
80°-90°	24.9	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°	997.1	32.2
0°-40°	1584.2	51.2
0°-60°	2618.4	84.6
0°-90°	3094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3094.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1336	1336	1331	1324	1320	126
15°	1259	1262	1259	1254	1245	355
25°	1119	1127	1132	1124	1114	512
35°	900	912	954	959	955	564
45°	696	708	732	765	769	537
55°	488	496	520	549	565	435
65°	286	294	311	333	352	283
75°	115	121	130	136	143	125
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1338.1	<i>1338.1</i>	1338.1	1338.1	1338.1
2.5°	<i>1341.7</i>	<i>1342.2</i>	<i>1339.1</i>	<i>1330.9</i>	<i>1325.7</i>
5°	1336.5	<i>1336.0</i>	1330.9	1323.7	1319.6
7.5°	1321.6	<i>1322.7</i>	1321.1	1310.8	1305.2
10°	1307.2	<i>1307.7</i>	1303.6	1295.4	1288.7
12.5°	1288.7	<i>1288.2</i>	1282.6	1278.4	1267.7
15°	1259.4	<i>1262.5</i>	1259.4	1253.8	1245.0
17.5°	1231.2	<i>1231.2</i>	1233.2	1223.4	1216.8
20°	1199.3	<i>1200.8</i>	1200.8	1193.1	1185.4
22.5°	1162.3	<i>1166.9</i>	1168.4	1160.2	1151.0
25°	1118.6	<i>1127.3</i>	1132.5	1124.2	1114.5
27.5°	1065.6	<i>1079.0</i>	1094.4	1088.2	1077.5
30°	1006.5	<i>1026.0</i>	1051.7	1046.6	1038.9
32.5°	950.5	<i>970.0</i>	1005.5	1003.4	999.3
35°	899.6	<i>911.9</i>	953.6	958.7	955.1
37.5°	851.3	<i>862.6</i>	901.6	913.5	910.4
40°	800.4	<i>812.7</i>	843.6	864.6	865.7
42.5°	750.0	<i>761.8</i>	787.0	817.3	817.3
45°	696.5	<i>708.4</i>	731.5	764.9	769.0
47.5°	644.1	<i>656.4</i>	679.1	712.5	719.2
50°	592.7	<i>604.0</i>	626.6	659.0	669.3
52.5°	539.2	<i>551.6</i>	573.7	603.5	618.4
55°	487.8	<i>496.1</i>	520.2	549.0	564.9
57.5°	434.4	<i>442.1</i>	469.3	494.0	510.5
60°	383.0	<i>392.7</i>	413.8	439.0	458.0
62.5°	333.6	<i>343.9</i>	361.9	384.0	405.6
65°	285.8	<i>293.5</i>	311.0	333.1	352.1
67.5°	239.5	<i>246.2</i>	263.7	279.1	299.2
70°	192.8	<i>201.5</i>	214.4	229.3	242.1
72.5°	155.2	<i>158.8</i>	169.6	180.4	193.8
75°	114.6	<i>120.8</i>	129.5	135.7	143.4
77.5°	82.2	<i>85.8</i>	91.0	96.1	103.3
80°	55.0	<i>56.5</i>	61.2	62.2	67.9
82.5°	33.4	<i>34.4</i>	35.5	36.0	38.0
85°	18.0	<i>18.0</i>	18.0	17.0	17.0
87.5°	10.3	<i>10.3</i>	8.7	7.2	5.1
90°	0.0	<i>0.0</i>	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)