

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: P555226

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-82-94-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: P555226  
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-82-94-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDES  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

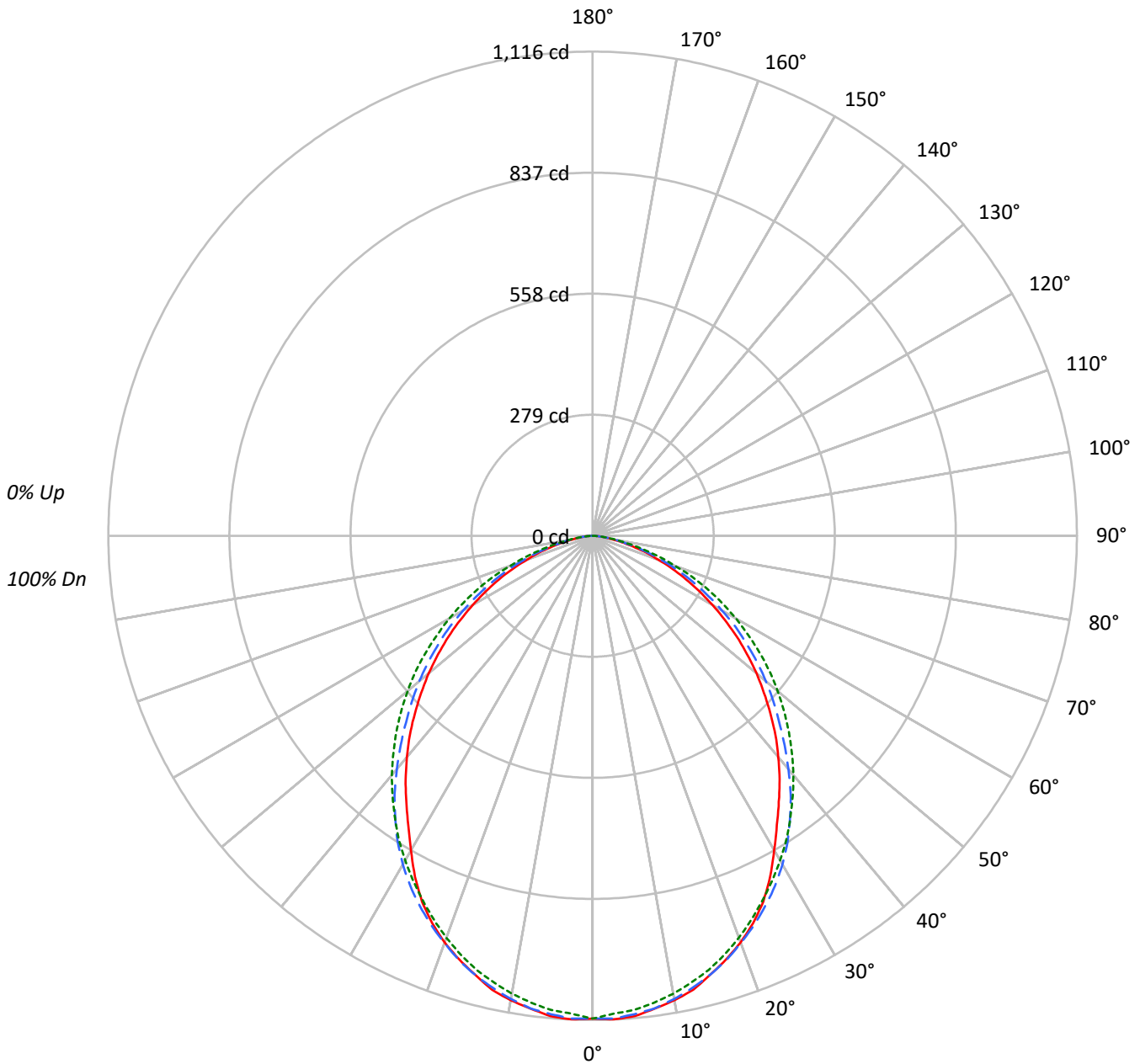
Lumens per Lamp: N/A  
Luminaire Lumens: 2573.0 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	5989	5989	5989
5°	6005	5980	5929
10°	5941	5925	5857
15°	5836	5836	5769
20°	5712	5719	5646
25°	5524	5593	5504
30°	5202	5435	5369
35°	4915	5210	5219
40°	4676	4928	5058
45°	4408	4630	4867
50°	4127	4363	4660
55°	3807	4059	4408
60°	3428	3704	4100
65°	3027	3293	3729
70°	2522	2806	3168
75°	1982	2240	2481
80°	1416	1578	1748
85°	926	926	871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.8	4.1
10°-20°	294.3	11.4
20°-30°	430.1	16.7
30°-40°	488.2	19.0
40°-50°	471.3	18.3
50°-60°	388.8	15.1
60°-70°	258.9	10.1
70°-80°	115.9	4.5
80°-90°	20.7	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°	829.2	32.2
0°-40°	1317.4	51.2
0°-60°	2177.5	84.6
0°-90°	2573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2573.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1113	1113	1113	1113	1113	
5°	1112	1111	1107	1101	1097	105
15°	1047	1050	1047	1043	1035	295
25°	930	938	942	935	927	426
35°	748	758	793	797	794	469
45°	579	589	608	636	640	447
55°	406	412	433	457	470	362
65°	238	244	259	277	293	236
75°	95	100	108	113	119	104
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°	1112.8	<i>1112.8</i>	1112.8	1112.8	1112.8
2.5°	<i>1115.7</i>	<i>1116.2</i>	<i>1113.6</i>	<i>1106.8</i>	<i>1102.5</i>
5°	1111.5	<i>1111.0</i>	1106.8	1100.8	1097.4
7.5°	1099.1	<i>1099.9</i>	1098.6	1090.1	1085.4
10°	1087.1	<i>1087.5</i>	1084.1	1077.3	1071.7
12.5°	1071.7	<i>1071.3</i>	1066.6	1063.2	1054.2
15°	1047.4	<i>1049.9</i>	1047.4	1042.6	1035.4
17.5°	1023.8	<i>1023.8</i>	1025.5	1017.4	1011.9
20°	997.3	<i>998.6</i>	998.6	992.2	985.8
22.5°	966.6	<i>970.4</i>	971.7	964.8	957.1
25°	930.2	<i>937.5</i>	941.8	934.9	926.8
27.5°	886.2	<i>897.3</i>	910.1	905.0	896.0
30°	837.0	<i>853.3</i>	874.6	870.4	864.0
32.5°	790.4	<i>806.7</i>	836.2	834.5	831.0
35°	748.1	<i>758.4</i>	793.0	797.3	794.3
37.5°	707.9	<i>717.3</i>	749.8	759.6	757.1
40°	665.6	<i>675.9</i>	701.5	719.0	719.9
42.5°	623.7	<i>633.5</i>	654.5	679.7	679.7
45°	579.2	<i>589.1</i>	608.3	636.1	639.5
47.5°	535.6	<i>545.9</i>	564.7	592.5	598.1
50°	492.9	<i>502.3</i>	521.1	548.0	556.6
52.5°	448.4	<i>458.7</i>	477.1	501.9	514.3
55°	405.7	<i>412.5</i>	432.6	456.6	469.8
57.5°	361.2	<i>367.6</i>	390.3	410.8	424.5
60°	318.5	<i>326.6</i>	344.1	365.1	380.9
62.5°	277.4	<i>286.0</i>	301.0	319.3	337.3
65°	237.7	<i>244.1</i>	258.6	277.0	292.8
67.5°	199.2	<i>204.8</i>	219.3	232.1	248.8
70°	160.3	<i>167.6</i>	178.3	190.7	201.3
72.5°	129.1	<i>132.1</i>	141.1	150.0	161.2
75°	95.3	<i>100.5</i>	107.7	112.9	119.3
77.5°	68.4	<i>71.4</i>	75.7	79.9	85.9
80°	45.7	<i>47.0</i>	50.9	51.7	56.4
82.5°	27.8	<i>28.6</i>	29.5	29.9	31.6
85°	15.0	<i>15.0</i>	15.0	14.1	14.1
87.5°	8.5	<i>8.5</i>	7.3	6.0	4.3
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)