

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: P554330

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-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: P554330  
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-LD4-1LO-50-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 5000K CCT LEDES  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

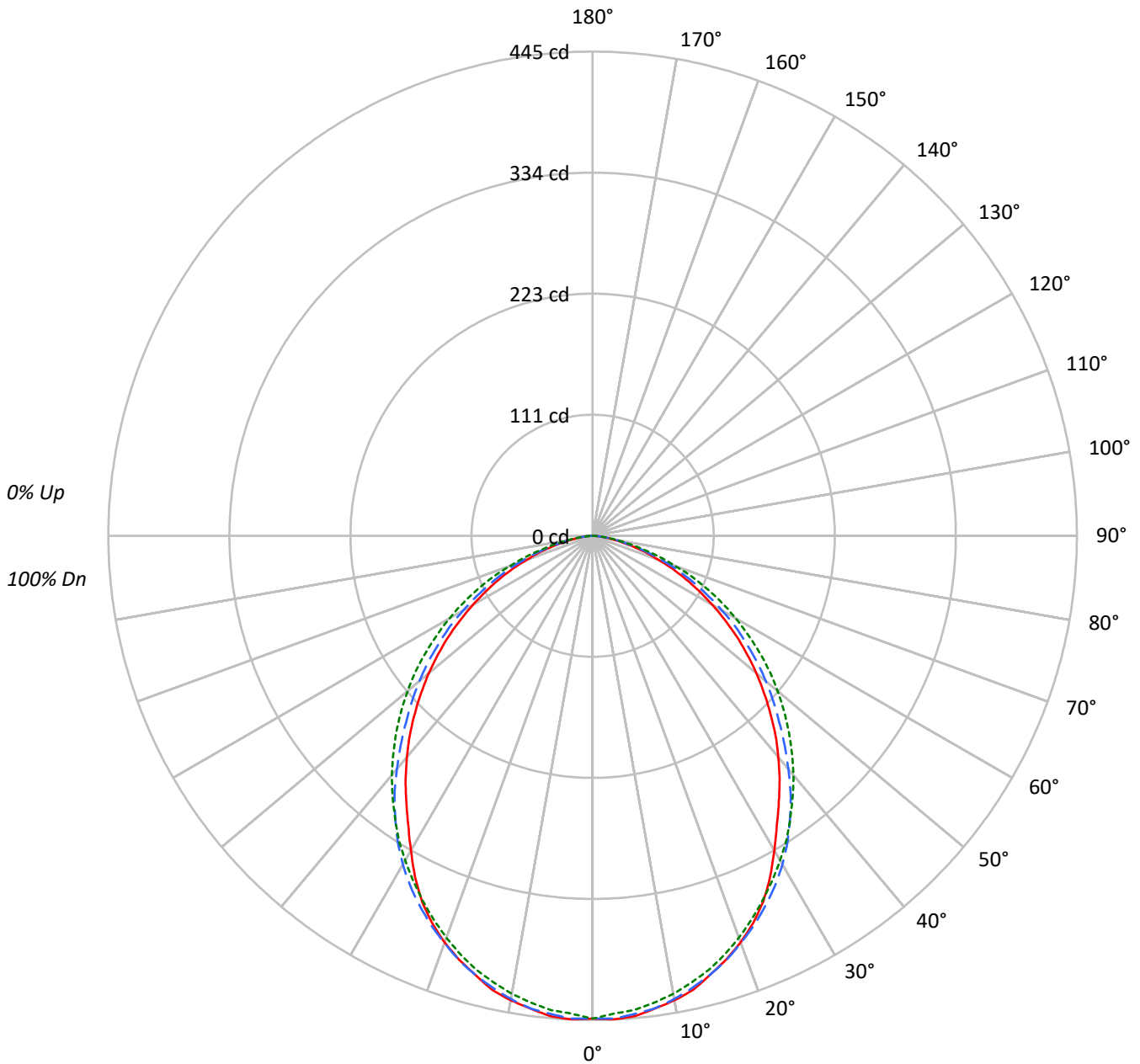
Lumens per Lamp: N/A  
Luminaire Lumens: 1026.0 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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°	2388	2388	2388
5°	2394	2384	2364
10°	2369	2363	2336
15°	2327	2327	2301
20°	2278	2281	2251
25°	2203	2230	2195
30°	2074	2168	2141
35°	1960	2077	2081
40°	1865	1965	2017
45°	1758	1846	1941
50°	1645	1740	1858
55°	1518	1619	1757
60°	1367	1477	1635
65°	1207	1313	1487
70°	1006	1119	1264
75°	790	894	990
80°	564	629	697
85°	371	371	346



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.8	4.1
10°-20°	117.4	11.4
20°-30°	171.5	16.7
30°-40°	194.7	19.0
40°-50°	187.9	18.3
50°-60°	155.0	15.1
60°-70°	103.2	10.1
70°-80°	46.2	4.5
80°-90°	8.3	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°	330.7	32.2
0°-40°	525.3	51.2
0°-60°	868.3	84.6
0°-90°	1026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1026.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	443	443	441	439	438	42
15°	418	419	418	416	413	118
25°	371	374	376	373	370	170
35°	298	302	316	318	317	187
45°	231	235	243	254	255	178
55°	162	164	172	182	187	144
65°	95	97	103	110	117	94
75°	38	40	43	45	48	42
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	443.7	443.7	443.7	443.7	443.7
2.5°	444.9	445.1	444.1	441.3	439.6
5°	443.2	443.0	441.3	438.9	437.6
7.5°	438.3	438.6	438.1	434.7	432.8
10°	433.5	433.7	432.3	429.6	427.4
12.5°	427.4	427.2	425.3	423.9	420.4
15°	417.6	418.7	417.6	415.8	412.9
17.5°	408.3	408.3	408.9	405.7	403.5
20°	397.7	398.2	398.2	395.6	393.1
22.5°	385.4	387.0	387.5	384.7	381.7
25°	370.9	373.8	375.5	372.8	369.6
27.5°	353.4	357.8	362.9	360.9	357.3
30°	333.8	340.2	348.8	347.1	344.5
32.5°	315.2	321.7	333.4	332.7	331.4
35°	298.3	302.4	316.2	317.9	316.7
37.5°	282.3	286.0	299.0	302.9	301.9
40°	265.4	269.5	279.7	286.7	287.1
42.5°	248.7	252.6	261.0	271.0	271.0
45°	231.0	234.9	242.6	253.7	255.0
47.5°	213.6	217.7	225.2	236.3	238.5
50°	196.5	200.3	207.8	218.5	221.9
52.5°	178.8	182.9	190.2	200.1	205.1
55°	161.8	164.5	172.5	182.1	187.3
57.5°	144.0	146.6	155.6	163.8	169.3
60°	127.0	130.2	137.2	145.6	151.9
62.5°	110.6	114.0	120.0	127.3	134.5
65°	94.8	97.3	103.1	110.5	116.8
67.5°	79.4	81.7	87.4	92.6	99.2
70°	63.9	66.8	71.1	76.0	80.3
72.5°	51.5	52.7	56.3	59.8	64.3
75°	38.0	40.1	43.0	45.0	47.6
77.5°	27.3	28.5	30.2	31.9	34.3
80°	18.2	18.8	20.3	20.6	22.5
82.5°	11.1	11.4	11.8	11.9	12.6
85°	6.0	6.0	6.0	5.6	5.6
87.5°	3.4	3.4	2.9	2.4	1.7
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)