

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: P555475

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-82-85-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: P555475  
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-LD4-3HI-35-UNV-82-85-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

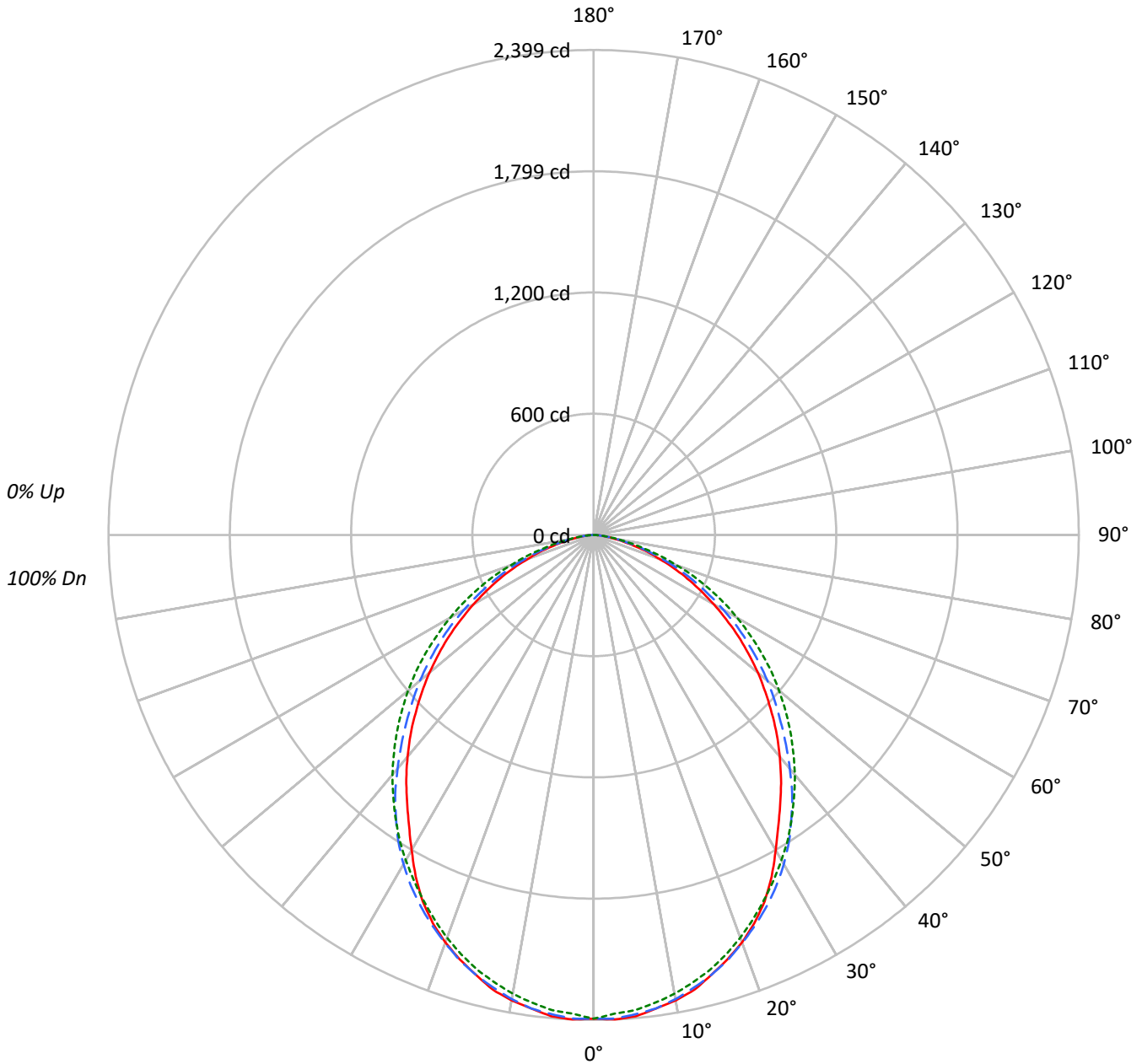
Lumens per Lamp: N/A  
Luminaire Lumens: 5533.0 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.8  
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°	12878	12878	12878
5°	12913	12858	12749
10°	12775	12741	12595
15°	12549	12549	12406
20°	12283	12299	12141
25°	11878	12026	11835
30°	11186	11688	11546
35°	10569	11204	11222
40°	10056	10598	10876
45°	9481	9956	10467
50°	8874	9383	10021
55°	8186	8729	9480
60°	7372	7965	8817
65°	6509	7083	8019
70°	5424	6032	6814
75°	4263	4818	5334
80°	3050	3391	3760
85°	1988	1988	1871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.3	4.1
10°-20°	632.9	11.4
20°-30°	924.9	16.7
30°-40°	1049.9	19.0
40°-50°	1013.5	18.3
50°-60°	836.1	15.1
60°-70°	556.8	10.1
70°-80°	249.1	4.5
80°-90°	44.6	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°	1783.1	32.2
0°-40°	2833.0	51.2
0°-60°	4682.5	84.6
0°-90°	5533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5533.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2393	2393	2393	2393	2393	
5°	2390	2389	2380	2367	2360	226
15°	2252	2258	2252	2242	2226	635
25°	2000	2016	2025	2010	1993	916
35°	1609	1631	1705	1714	1708	1008
45°	1246	1267	1308	1368	1375	961
55°	872	887	930	982	1010	779
65°	511	525	556	596	630	507
75°	205	216	232	243	256	224
85°	32	32	32	30	30	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2392.9	2392.9	2392.9	2392.9	2392.9
2.5°	2399.3	2400.2	2394.7	2380.0	2370.8
5°	2390.1	2389.2	2380.0	2367.1	2359.8
7.5°	2363.5	2365.3	2362.5	2344.2	2334.0
10°	2337.7	2338.6	2331.3	2316.6	2304.6
12.5°	2304.6	2303.7	2293.6	2286.2	2266.9
15°	2252.2	2257.7	2252.2	2242.1	2226.5
17.5°	2201.7	2201.7	2205.3	2187.9	2175.9
20°	2144.7	2147.4	2147.4	2133.6	2119.9
22.5°	2078.5	2086.8	2089.5	2074.8	2058.3
25°	2000.3	2016.0	2025.2	2010.5	1993.0
27.5°	1905.7	1929.6	1957.1	1946.1	1926.8
30°	1799.9	1834.9	1880.8	1871.6	1857.9
32.5°	1699.7	1734.7	1798.1	1794.4	1787.1
35°	1608.7	1630.8	1705.3	1714.5	1708.0
37.5°	1522.3	1542.5	1612.4	1633.6	1628.0
40°	1431.3	1453.4	1508.5	1546.2	1548.1
42.5°	1341.2	1362.4	1407.4	1461.7	1461.7
45°	1245.6	1266.8	1308.1	1367.9	1375.2
47.5°	1151.9	1173.9	1214.4	1274.1	1286.1
50°	1059.9	1080.2	1120.6	1178.5	1196.9
52.5°	964.3	986.4	1025.9	1079.2	1105.9
55°	872.4	887.1	930.3	981.8	1010.3
57.5°	776.8	790.6	839.3	883.4	912.8
60°	684.9	702.3	740.0	785.1	819.1
62.5°	596.6	615.0	647.2	686.7	725.3
65°	511.1	524.9	556.2	595.7	629.7
67.5°	428.4	440.3	471.6	499.2	535.0
70°	344.7	360.4	383.3	410.0	433.0
72.5°	277.6	284.1	303.4	322.7	346.6
75°	205.0	216.0	231.7	242.7	256.5
77.5°	147.1	153.5	162.7	171.9	184.8
80°	98.4	101.1	109.4	111.2	121.3
82.5°	59.8	61.6	63.4	64.3	68.0
85°	32.2	32.2	32.2	30.3	30.3
87.5°	18.4	18.4	15.6	12.9	9.2
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)