

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: P555500

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-93-96-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: P555500  
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-93-96-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

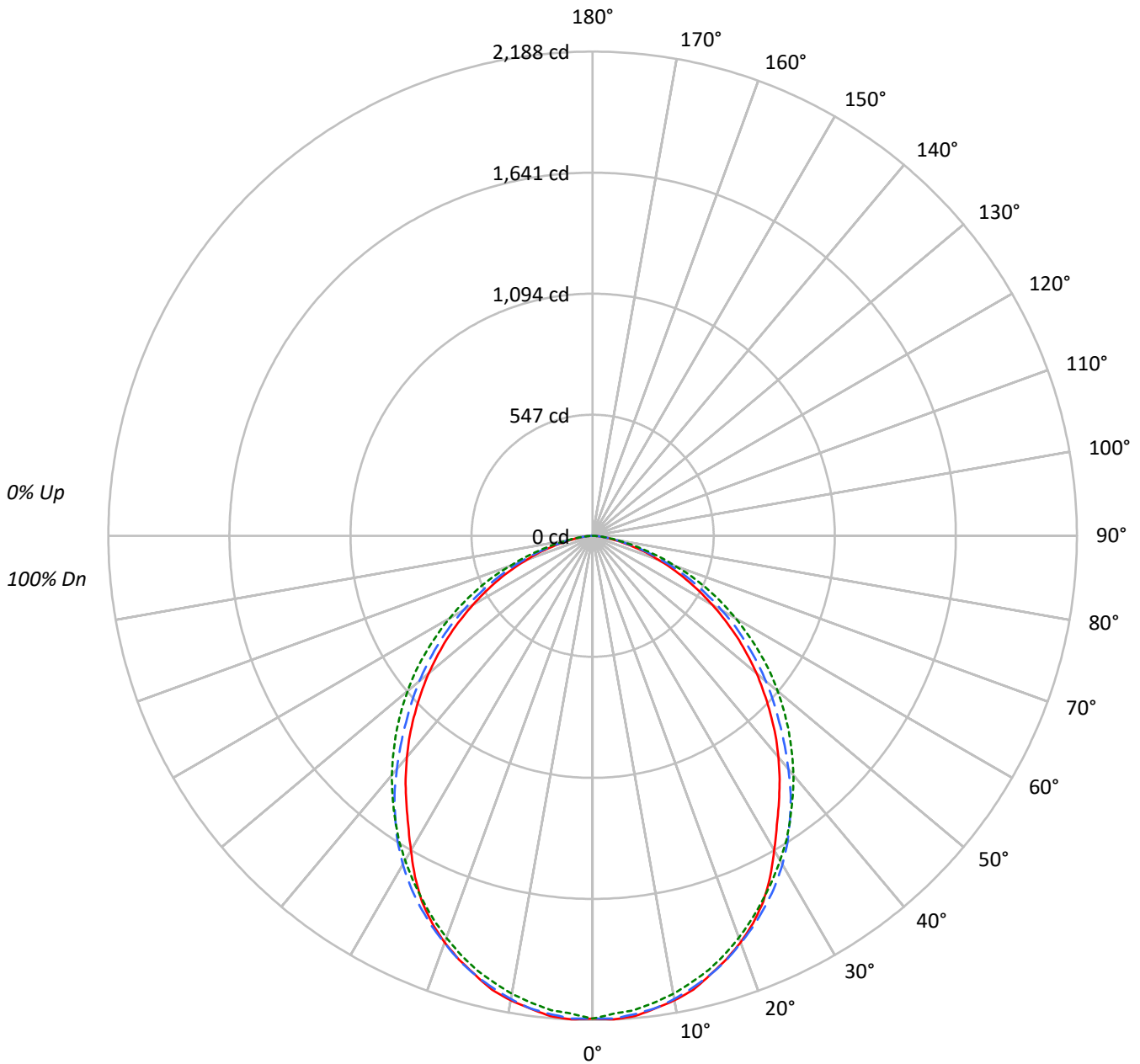
Lumens per Lamp: N/A  
Luminaire Lumens: 5045.0 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	11742	11742	11742
5°	11774	11724	11625
10°	11649	11617	11484
15°	11442	11442	11311
20°	11200	11214	11070
25°	10831	10966	10791
30°	10199	10658	10527
35°	9637	10216	10232
40°	9169	9664	9917
45°	8645	9079	9544
50°	8092	8555	9137
55°	7464	7960	8644
60°	6722	7263	8038
65°	5934	6458	7312
70°	4946	5500	6212
75°	3886	4392	4864
80°	2780	3090	3428
85°	1809	1809	1711



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.4	4.1
10°-20°	577.1	11.4
20°-30°	843.3	16.7
30°-40°	957.3	19.0
40°-50°	924.1	18.3
50°-60°	762.3	15.1
60°-70°	507.6	10.1
70°-80°	227.2	4.5
80°-90°	40.6	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°	1625.9	32.2
0°-40°	2583.1	51.2
0°-60°	4269.6	84.6
0°-90°	5045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5045.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2182	2182	2182	2182	2182	
5°	2179	2178	2170	2158	2152	206
15°	2054	2059	2054	2044	2030	579
25°	1824	1838	1847	1833	1817	835
35°	1467	1487	1555	1563	1557	919
45°	1136	1155	1193	1247	1254	876
55°	796	809	848	895	921	710
65°	466	479	507	543	574	462
75°	187	197	211	221	234	204
85°	29	29	29	28	28	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2181.8	2181.8	2181.8	2181.8	2181.8
2.5°	2187.7	2188.5	2183.5	2170.1	2161.7
5°	2179.3	2178.5	2170.1	2158.4	2151.7
7.5°	2155.0	2156.7	2154.2	2137.4	2128.2
10°	2131.5	2132.4	2125.7	2112.3	2101.4
12.5°	2101.4	2100.5	2091.3	2084.6	2067.0
15°	2053.6	2058.6	2053.6	2044.4	2030.1
17.5°	2007.5	2007.5	2010.8	1994.9	1984.0
20°	1955.5	1958.0	1958.0	1945.5	1932.9
22.5°	1895.2	1902.7	1905.2	1891.8	1876.7
25°	1823.9	1838.2	1846.6	1833.1	1817.2
27.5°	1737.6	1759.4	1784.5	1774.5	1756.9
30°	1641.2	1673.0	1715.0	1706.6	1694.0
32.5°	1549.8	1581.7	1639.5	1636.2	1629.5
35°	1466.8	1487.0	1554.9	1563.2	1557.4
37.5°	1388.1	1406.5	1470.2	1489.5	1484.5
40°	1305.1	1325.2	1375.5	1409.9	1411.5
42.5°	1222.9	1242.2	1283.3	1332.7	1332.7
45°	1135.8	1155.0	1192.8	1247.2	1253.9
47.5°	1050.3	1070.4	1107.3	1161.7	1172.6
50°	966.4	984.9	1021.8	1074.6	1091.3
52.5°	879.3	899.4	935.4	984.0	1008.4
55°	795.5	808.9	848.3	895.2	921.2
57.5°	708.3	720.9	765.3	805.5	832.3
60°	624.5	640.4	674.8	715.8	746.8
62.5°	544.0	560.8	590.1	626.1	661.3
65°	466.0	478.6	507.1	543.2	574.2
67.5°	390.6	401.5	430.0	455.1	487.8
70°	314.3	328.6	349.5	373.8	394.8
72.5°	253.1	259.0	276.6	294.2	316.0
75°	186.9	197.0	211.2	221.3	233.9
77.5°	134.1	140.0	148.4	156.7	168.5
80°	89.7	92.2	99.7	101.4	110.6
82.5°	54.5	56.2	57.8	58.7	62.0
85°	29.3	29.3	29.3	27.7	27.7
87.5°	16.8	16.8	14.2	11.7	8.4
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)