

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: P555627

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-93-94-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: P555627  
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-50-UNV-93-94-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

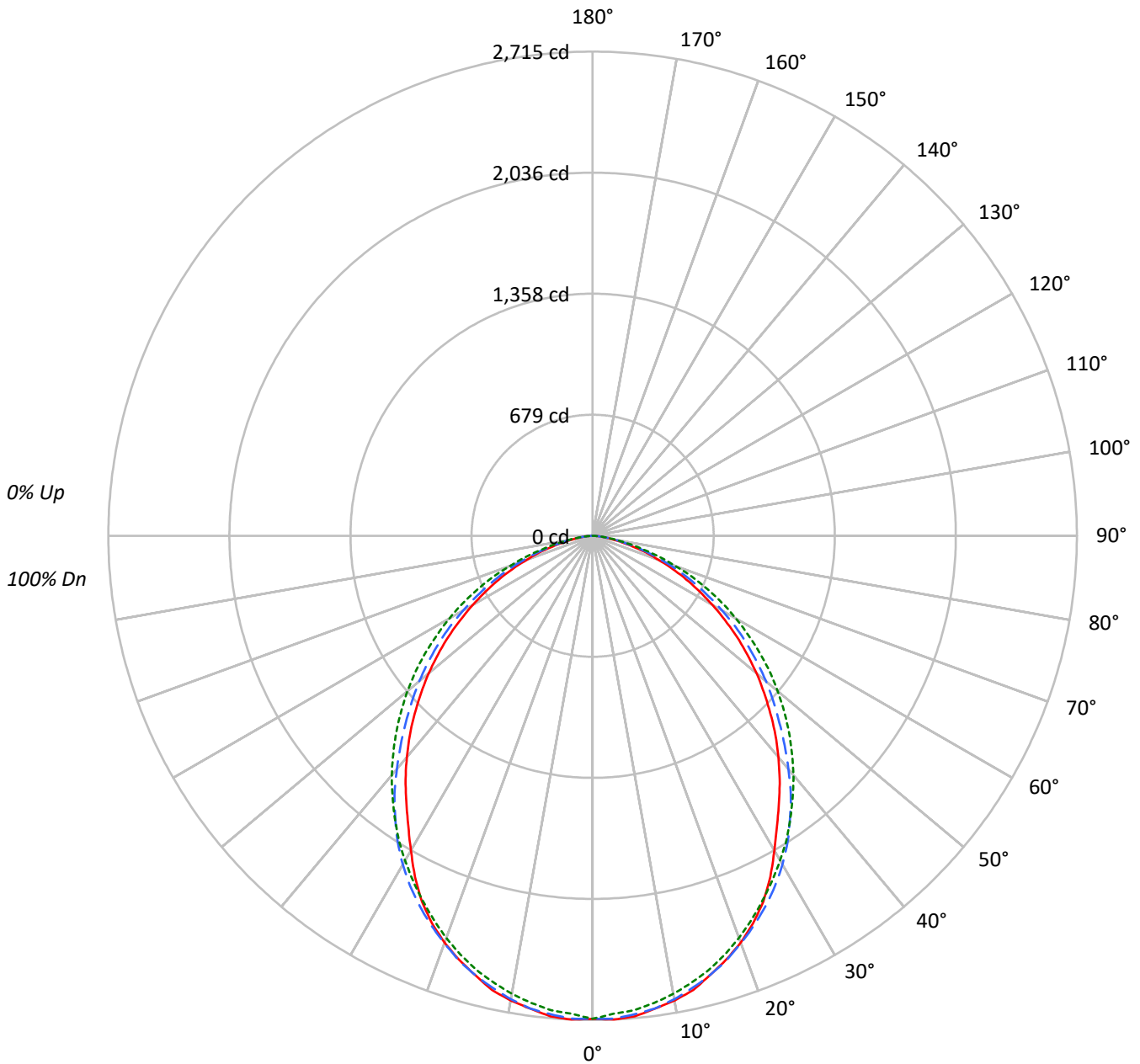
Lumens per Lamp: N/A  
Luminaire Lumens: 6262.0 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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					20					
RC	80					70					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°	14575	14575	14575
5°	14614	14552	14428
10°	14459	14419	14254
15°	14203	14203	14040
20°	13901	13920	13741
25°	13444	13611	13395
30°	12660	13229	13067
35°	11962	12680	12701
40°	11381	11995	12309
45°	10730	11268	11846
50°	10044	10618	11342
55°	9264	9880	10729
60°	8343	9015	9978
65°	7367	8015	9076
70°	6139	6826	7711
75°	4824	5452	6037
80°	3450	3837	4255
85°	2248	2248	2118



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.0	4.1
10°-20°	716.3	11.4
20°-30°	1046.8	16.7
30°-40°	1188.2	19.0
40°-50°	1147.0	18.3
50°-60°	946.2	15.1
60°-70°	630.1	10.1
70°-80°	282.0	4.5
80°-90°	50.4	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°	2018.1	32.2
0°-40°	3206.3	51.2
0°-60°	5299.5	84.6
0°-90°	6262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6262.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2708	2708	2708	2708	2708	
5°	2705	2704	2694	2679	2671	256
15°	2549	2555	2549	2538	2520	719
25°	2264	2282	2292	2275	2256	1037
35°	1821	1846	1930	1940	1933	1141
45°	1410	1434	1480	1548	1556	1088
55°	987	1004	1053	1111	1143	881
65°	578	594	629	674	713	574
75°	232	244	262	275	290	254
85°	36	36	36	34	34	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2708.2	2708.2	2708.2	2708.2	2708.2
2.5°	2715.4	2716.5	2710.2	2693.6	2683.2
5°	2705.0	2704.0	2693.6	2679.0	2670.7
7.5°	2674.9	2676.9	2673.8	2653.0	2641.6
10°	2645.7	2646.8	2638.4	2621.8	2608.3
12.5°	2608.3	2607.2	2595.8	2587.5	2565.6
15°	2549.0	2555.2	2549.0	2537.5	2519.8
17.5°	2491.8	2491.8	2495.9	2476.1	2462.6
20°	2427.2	2430.4	2430.4	2414.8	2399.2
22.5°	2352.3	2361.7	2364.8	2348.2	2329.4
25°	2263.9	2281.6	2292.0	2275.3	2255.6
27.5°	2156.7	2183.8	2215.0	2202.5	2180.7
30°	2037.1	2076.6	2128.7	2118.2	2102.6
32.5°	1923.7	1963.2	2035.0	2030.9	2022.5
35°	1820.7	1845.7	1929.9	1940.3	1933.1
37.5°	1722.9	1745.8	1824.9	1848.8	1842.5
40°	1619.9	1644.9	1707.3	1749.9	1752.0
42.5°	1517.9	1541.9	1592.8	1654.2	1654.2
45°	1409.7	1433.7	1480.5	1548.1	1556.4
47.5°	1303.6	1328.6	1374.4	1442.0	1455.5
50°	1199.6	1222.5	1268.2	1333.8	1354.6
52.5°	1091.4	1116.3	1161.1	1221.4	1251.6
55°	987.3	1004.0	1052.9	1111.1	1143.4
57.5°	879.1	894.7	949.9	999.8	1033.1
60°	775.1	794.9	837.5	888.5	927.0
62.5°	675.2	696.0	732.4	777.2	820.9
65°	578.5	594.1	629.4	674.2	712.7
67.5°	484.8	498.4	533.7	564.9	605.5
70°	390.1	407.8	433.8	464.0	490.0
72.5°	314.2	321.5	343.3	365.2	392.2
75°	232.0	244.5	262.2	274.7	290.3
77.5°	166.5	173.7	184.2	194.6	209.1
80°	111.3	114.4	123.8	125.9	137.3
82.5°	67.6	69.7	71.8	72.8	77.0
85°	36.4	36.4	36.4	34.3	34.3
87.5°	20.8	20.8	17.7	14.6	10.4
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)