

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: P555515

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-80-94-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: P555515  
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-40-UNV-80-94-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND  
4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

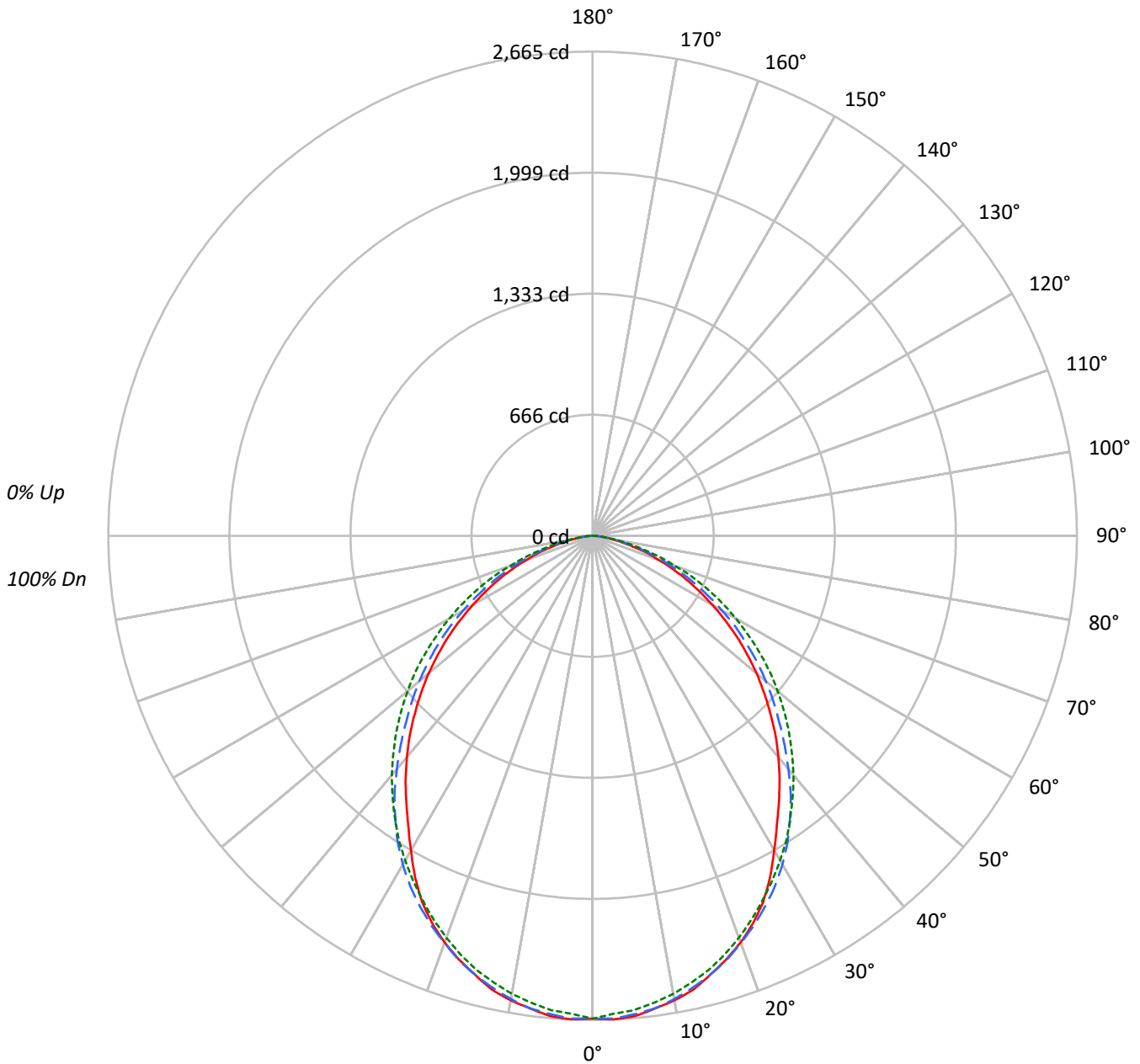
Lumens per Lamp: N/A  
Luminaire Lumens: 6145.0 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	14303	14303	14303
5°	14341	14280	14159
10°	14189	14149	13988
15°	13937	13937	13778
20°	13642	13660	13484
25°	13193	13356	13144
30°	12423	12982	12823
35°	11739	12443	12463
40°	11168	11771	12079
45°	10529	11058	11625
50°	9857	10420	11130
55°	9091	9695	10528
60°	8187	8847	9792
65°	7230	7866	8907
70°	6025	6699	7567
75°	4735	5350	5922
80°	3384	3766	4178
85°	2205	2205	2081



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.2	4.1
10°-20°	702.9	11.4
20°-30°	1027.2	16.7
30°-40°	1166.0	19.0
40°-50°	1125.6	18.3
50°-60°	928.5	15.1
60°-70°	618.3	10.1
70°-80°	276.7	4.5
80°-90°	49.5	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°	1980.4	32.2
0°-40°	3146.4	51.2
0°-60°	5200.5	84.6
0°-90°	6145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6145.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2658	2658	2658	2658	2658	
5°	2654	2654	2643	2629	2621	251
15°	2501	2508	2501	2490	2473	705
25°	2222	2239	2249	2233	2213	1017
35°	1787	1811	1894	1904	1897	1119
45°	1383	1407	1453	1519	1527	1067
55°	969	985	1033	1090	1122	865
65°	568	583	618	662	699	563
75°	228	240	257	270	285	249
85°	36	36	36	34	34	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2657.6	2657.6	2657.6	2657.6	2657.6
2.5°	2664.7	2665.7	2659.6	2643.3	2633.1
5°	2654.5	2653.5	2643.3	2629.0	2620.8
7.5°	2624.9	2626.9	2623.9	2603.4	2592.2
10°	2596.3	2597.3	2589.1	2572.8	2559.5
12.5°	2559.5	2558.5	2547.3	2539.1	2517.7
15°	2501.3	2507.5	2501.3	2490.1	2472.8
17.5°	2445.2	2445.2	2449.3	2429.9	2416.6
20°	2381.9	2385.0	2385.0	2369.6	2354.3
22.5°	2308.4	2317.6	2320.6	2304.3	2285.9
25°	2221.6	2239.0	2249.2	2232.8	2213.4
27.5°	2116.4	2143.0	2173.6	2161.4	2139.9
30°	1999.0	2037.8	2088.9	2078.7	2063.4
32.5°	1887.8	1926.5	1997.0	1992.9	1984.7
35°	1786.7	1811.2	1893.9	1904.1	1896.9
37.5°	1690.7	1713.2	1790.8	1814.2	1808.1
40°	1589.6	1614.1	1675.4	1717.3	1719.3
42.5°	1489.6	1513.1	1563.1	1623.3	1623.3
45°	1383.4	1406.9	1452.8	1519.2	1527.4
47.5°	1279.3	1303.8	1348.7	1415.0	1428.3
50°	1177.2	1199.6	1244.5	1308.9	1329.3
52.5°	1071.0	1095.5	1139.4	1198.6	1228.2
55°	968.9	985.2	1033.2	1090.4	1122.0
57.5°	862.7	878.0	932.1	981.1	1013.8
60°	760.6	780.0	821.9	871.9	909.7
62.5°	662.6	683.0	718.8	762.7	805.5
65°	567.7	583.0	617.7	661.6	699.4
67.5°	475.8	489.0	523.8	554.4	594.2
70°	382.9	400.2	425.7	455.3	480.9
72.5°	308.3	315.5	336.9	358.4	384.9
75°	227.7	239.9	257.3	269.5	284.8
77.5°	163.4	170.5	180.7	190.9	205.2
80°	109.2	112.3	121.5	123.5	134.8
82.5°	66.4	68.4	70.4	71.5	75.6
85°	35.7	35.7	35.7	33.7	33.7
87.5°	20.4	20.4	17.4	14.3	10.2
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)