

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: P555489

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-93-84-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: P555489  
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-93-84-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

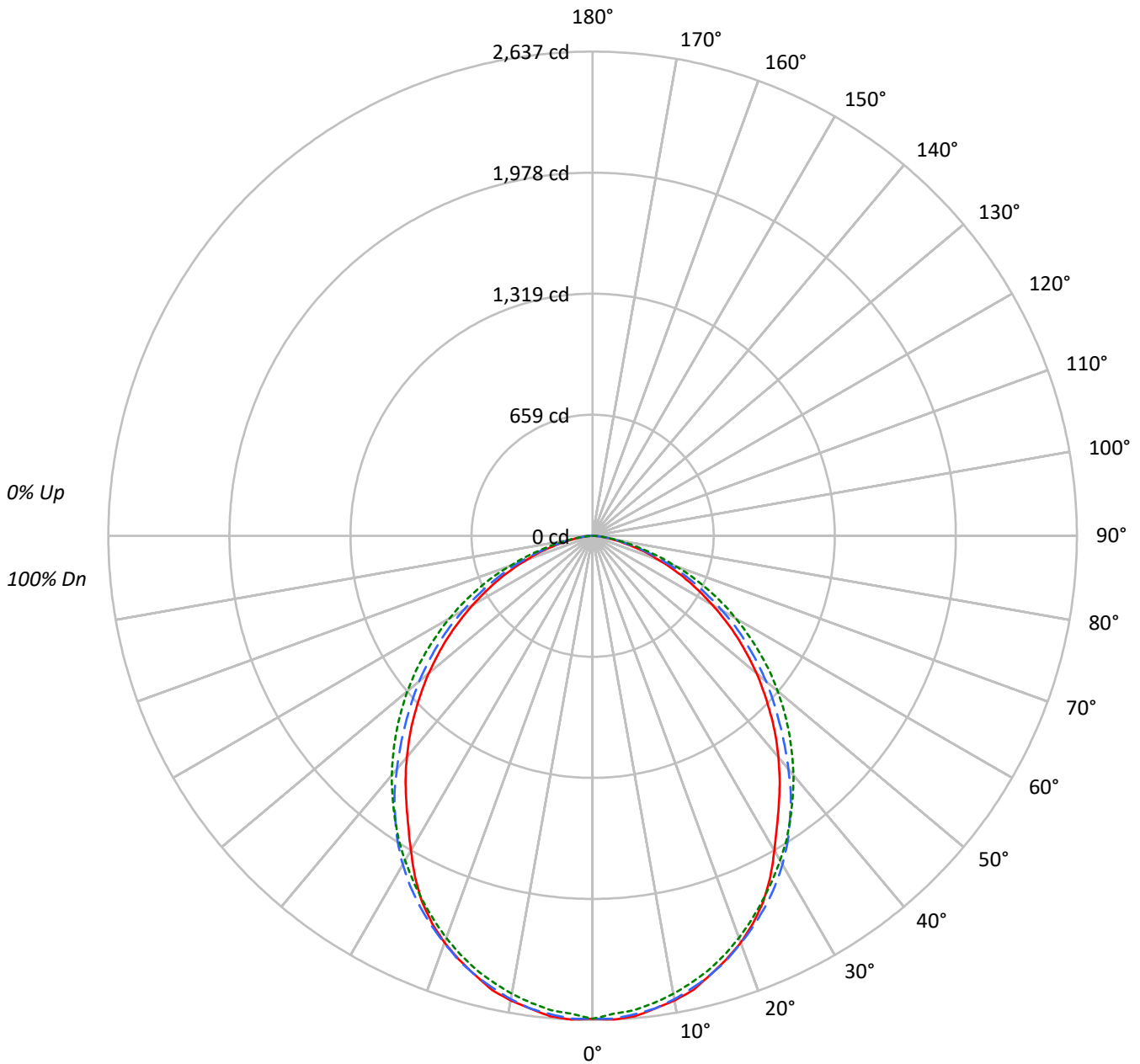
Lumens per Lamp: N/A  
Luminaire Lumens: 6082.0 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.8  
Input Voltage (V): NR  
Input Current (Ain): 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°	14156	14156	14156
5°	14194	14134	14014
10°	14043	14005	13844
15°	13794	13794	13636
20°	13502	13519	13346
25°	13057	13219	13009
30°	12295	12849	12691
35°	11619	12316	12335
40°	11053	11650	11956
45°	10421	10944	11506
50°	9755	10314	11016
55°	8998	9595	10420
60°	8103	8755	9691
65°	7154	7785	8815
70°	5962	6631	7489
75°	4685	5294	5862
80°	3350	3725	4135
85°	2186	2186	2056



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.7	4.1
10°-20°	695.7	11.4
20°-30°	1016.7	16.7
30°-40°	1154.0	19.0
40°-50°	1114.0	18.3
50°-60°	919.0	15.1
60°-70°	612.0	10.1
70°-80°	273.9	4.5
80°-90°	49.0	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°	1960.0	32.2
0°-40°	3114.1	51.2
0°-60°	5147.2	84.6
0°-90°	6082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6082.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2630	2630	2630	2630	2630	
5°	2627	2626	2616	2602	2594	249
15°	2476	2482	2476	2465	2447	698
25°	2199	2216	2226	2210	2191	1007
35°	1768	1793	1874	1885	1878	1108
45°	1369	1392	1438	1504	1512	1056
55°	959	975	1023	1079	1110	856
65°	562	577	611	655	692	557
75°	225	238	255	267	282	246
85°	35	35	35	33	33	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2630.3	2630.3	2630.3	2630.3	2630.3
2.5°	2637.4	2638.4	2632.3	2616.2	2606.1
5°	2627.3	2626.3	2616.2	2602.0	2593.9
7.5°	2598.0	2600.0	2597.0	2576.8	2565.6
10°	2569.7	2570.7	2562.6	2546.4	2533.3
12.5°	2533.3	2532.3	2521.2	2513.1	2491.9
15°	2475.7	2481.8	2475.7	2464.6	2447.4
17.5°	2420.1	2420.1	2424.2	2405.0	2391.8
20°	2357.5	2360.5	2360.5	2345.3	2330.2
22.5°	2284.7	2293.8	2296.8	2280.7	2262.5
25°	2198.8	2216.0	2226.1	2209.9	2190.7
27.5°	2094.7	2121.0	2151.3	2139.2	2118.0
30°	1978.5	2016.9	2067.5	2057.4	2042.2
32.5°	1868.4	1906.8	1976.5	1972.5	1964.4
35°	1768.4	1792.6	1874.5	1884.6	1877.5
37.5°	1673.4	1695.6	1772.4	1795.6	1789.6
40°	1573.3	1597.6	1658.2	1699.6	1701.7
42.5°	1474.3	1497.5	1547.1	1606.7	1606.7
45°	1369.2	1392.5	1437.9	1503.6	1511.7
47.5°	1266.1	1290.4	1334.9	1400.5	1413.7
50°	1165.1	1187.3	1231.8	1295.4	1315.7
52.5°	1060.0	1084.3	1127.7	1186.3	1215.6
55°	959.0	975.1	1022.6	1079.2	1110.5
57.5°	853.9	869.0	922.6	971.1	1003.4
60°	752.8	772.0	813.4	863.0	900.3
62.5°	655.8	676.0	711.4	754.8	797.3
65°	561.8	577.0	611.3	654.8	692.2
67.5°	470.9	484.0	518.4	548.7	588.1
70°	378.9	396.1	421.4	450.7	475.9
72.5°	305.2	312.2	333.5	354.7	381.0
75°	225.3	237.5	254.6	266.8	281.9
77.5°	161.7	168.8	178.9	189.0	203.1
80°	108.1	111.2	120.2	122.3	133.4
82.5°	65.7	67.7	69.7	70.7	74.8
85°	35.4	35.4	35.4	33.3	33.3
87.5°	20.2	20.2	17.2	14.1	10.1
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)