

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: P555570

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-80-85-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: P555570  
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-80-85-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

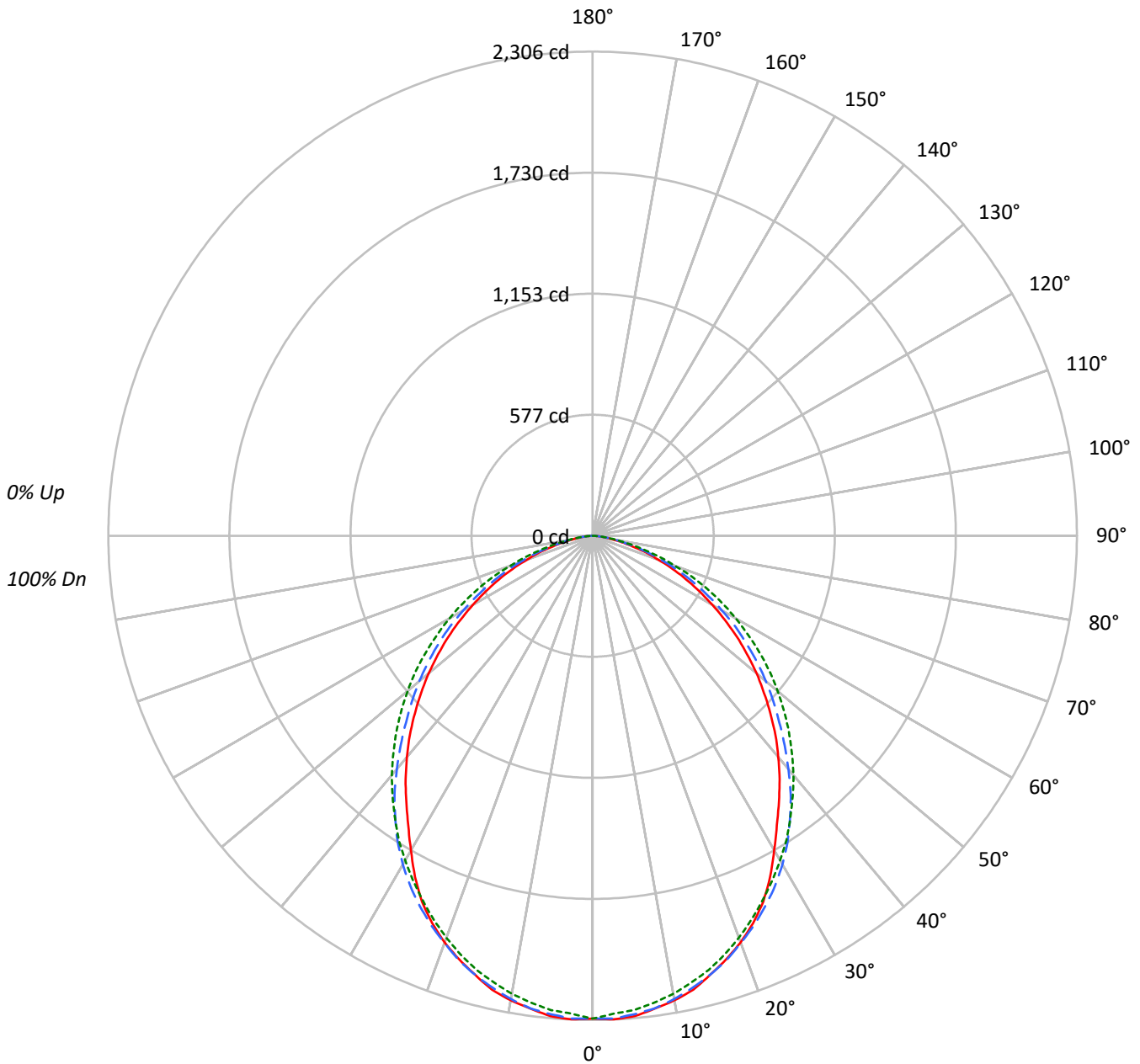
Lumens per Lamp: N/A  
Luminaire Lumens: 5317.0 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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									
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°	12376	12376	12376
5°	12408	12356	12251
10°	12277	12243	12103
15°	12059	12059	11921
20°	11804	11819	11667
25°	11415	11557	11373
30°	10749	11232	11095
35°	10157	10767	10784
40°	9663	10184	10451
45°	9111	9568	10059
50°	8528	9017	9630
55°	7866	8389	9109
60°	7084	7654	8472
65°	6255	6807	7706
70°	5213	5797	6548
75°	4096	4629	5126
80°	2929	3257	3614
85°	1908	1908	1803



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.5	4.1
10°-20°	608.2	11.4
20°-30°	888.8	16.7
30°-40°	1008.9	19.0
40°-50°	973.9	18.3
50°-60°	803.4	15.1
60°-70°	535.0	10.1
70°-80°	239.4	4.5
80°-90°	42.8	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°	1713.5	32.2
0°-40°	2722.4	51.2
0°-60°	4499.7	84.6
0°-90°	5317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5317.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2300	2300	2300	2300	2300	
5°	2297	2296	2287	2275	2268	217
15°	2164	2170	2164	2155	2140	610
25°	1922	1937	1946	1932	1915	880
35°	1546	1567	1639	1648	1641	969
45°	1197	1217	1257	1314	1322	924
55°	838	852	894	944	971	748
65°	491	504	534	572	605	487
75°	197	208	223	233	246	215
85°	31	31	31	29	29	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2299.5	2299.5	2299.5	2299.5	2299.5
2.5°	2305.6	2306.5	2301.2	2287.1	2278.3
5°	2296.8	2295.9	2287.1	2274.7	2267.7
7.5°	2271.2	2273.0	2270.3	2252.6	2242.9
10°	2246.5	2247.3	2240.3	2226.1	2214.7
12.5°	2214.7	2213.8	2204.1	2197.0	2178.4
15°	2164.3	2169.6	2164.3	2154.6	2139.6
17.5°	2115.7	2115.7	2119.3	2102.5	2091.0
20°	2060.9	2063.6	2063.6	2050.3	2037.1
22.5°	1997.3	2005.3	2007.9	1993.8	1977.9
25°	1922.3	1937.3	1946.1	1932.0	1915.2
27.5°	1831.3	1854.2	1880.7	1870.1	1851.6
30°	1729.7	1763.2	1807.4	1798.6	1785.3
32.5°	1633.4	1667.0	1727.9	1724.4	1717.3
35°	1545.9	1567.1	1638.7	1647.5	1641.3
37.5°	1462.9	1482.3	1549.5	1569.8	1564.5
40°	1375.4	1396.6	1449.6	1485.9	1487.6
42.5°	1288.9	1309.2	1352.5	1404.6	1404.6
45°	1197.0	1217.3	1257.1	1314.5	1321.6
47.5°	1106.9	1128.1	1167.0	1224.4	1235.9
50°	1018.5	1038.0	1076.9	1132.5	1150.2
52.5°	926.7	947.9	985.9	1037.1	1062.7
55°	838.3	852.5	894.0	943.5	970.8
57.5°	746.5	759.7	806.5	848.9	877.2
60°	658.1	674.9	711.1	754.4	787.1
62.5°	573.3	591.0	621.9	659.9	697.0
65°	491.2	504.4	534.5	572.4	605.1
67.5°	411.7	423.1	453.2	479.7	514.1
70°	331.3	346.3	368.4	394.0	416.1
72.5°	266.8	273.0	291.5	310.1	333.0
75°	197.0	207.6	222.6	233.2	246.5
77.5°	141.3	147.5	156.4	165.2	177.6
80°	94.5	97.2	105.1	106.9	116.6
82.5°	57.4	59.2	61.0	61.8	65.4
85°	30.9	30.9	30.9	29.2	29.2
87.5°	17.7	17.7	15.0	12.4	8.8
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)