

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: P555618

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-93-85-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: P555618  
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-93-85-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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**

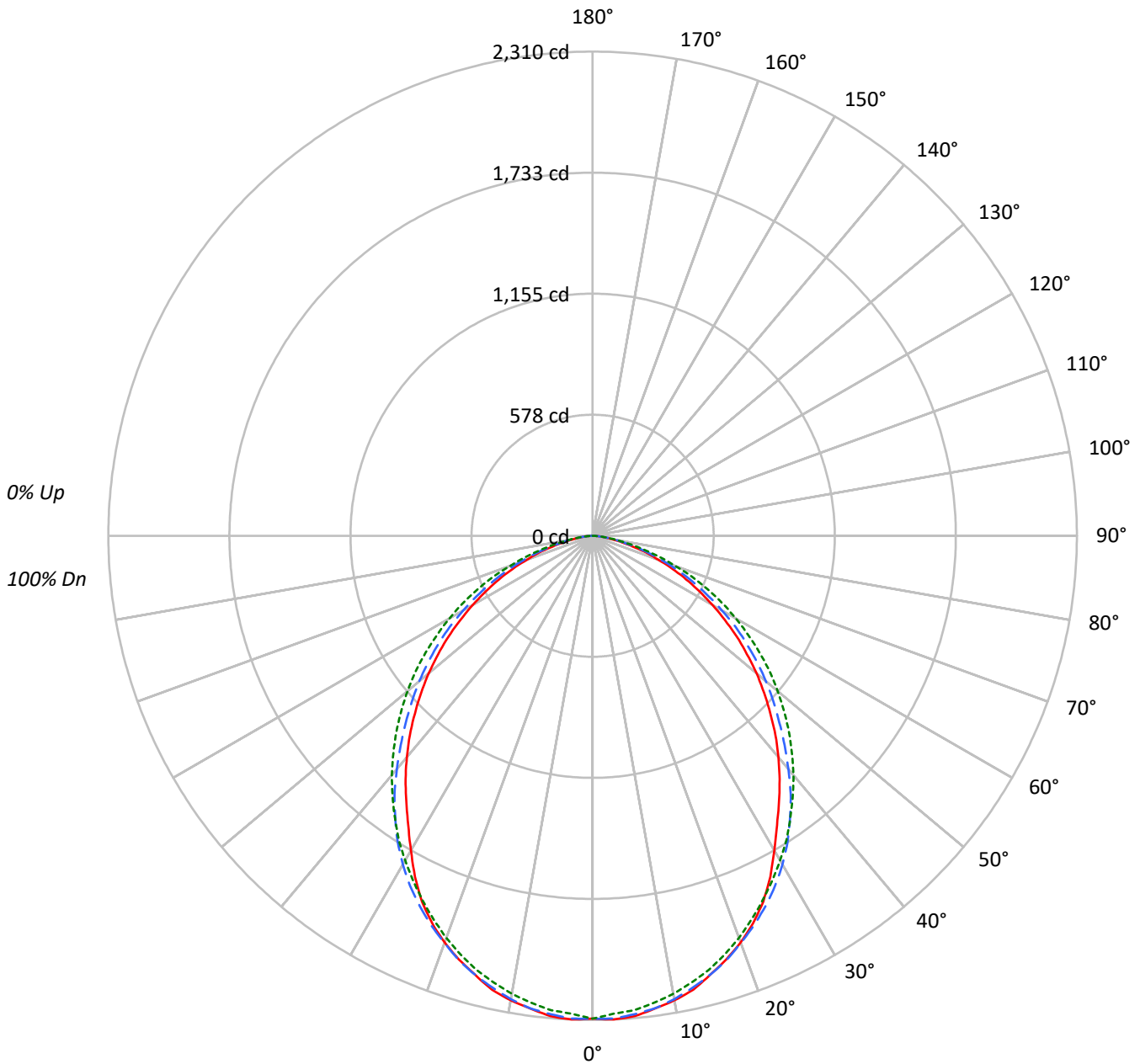
Lumens per Lamp: N/A  
Luminaire Lumens: 5327.0 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	12399	12399	12399
5°	12432	12379	12274
10°	12300	12266	12126
15°	12082	12082	11944
20°	11826	11841	11689
25°	11437	11579	11394
30°	10769	11253	11116
35°	10176	10787	10804
40°	9681	10204	10471
45°	9127	9586	10077
50°	8544	9033	9648
55°	7881	8404	9127
60°	7098	7669	8488
65°	6267	6819	7721
70°	5223	5808	6560
75°	4105	4637	5134
80°	2935	3264	3620
85°	1914	1914	1803



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.9	4.1
10°-20°	609.4	11.4
20°-30°	890.5	16.7
30°-40°	1010.8	19.0
40°-50°	975.8	18.3
50°-60°	804.9	15.1
60°-70°	536.0	10.1
70°-80°	239.9	4.5
80°-90°	42.9	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°	1716.7	32.2
0°-40°	2727.5	51.2
0°-60°	4508.2	84.6
0°-90°	5327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5327.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2304	2304	2304	2304	2304	
5°	2301	2300	2291	2279	2272	218
15°	2168	2174	2168	2159	2144	611
25°	1926	1941	1950	1936	1919	882
35°	1549	1570	1642	1651	1644	970
45°	1199	1220	1259	1317	1324	925
55°	840	854	896	945	973	750
65°	492	505	536	574	606	488
75°	197	208	223	234	247	216
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°	2303.8	2303.8	2303.8	2303.8	2303.8
2.5°	2310.0	2310.9	2305.6	2291.4	2282.5
5°	2301.1	2300.2	2291.4	2279.0	2271.9
7.5°	2275.5	2277.2	2274.6	2256.9	2247.1
10°	2250.7	2251.6	2244.5	2230.3	2218.8
12.5°	2218.8	2217.9	2208.2	2201.1	2182.5
15°	2168.4	2173.7	2168.4	2158.6	2143.6
17.5°	2119.7	2119.7	2123.2	2106.4	2094.9
20°	2064.8	2067.5	2067.5	2054.2	2040.9
22.5°	2001.1	2009.1	2011.7	1997.6	1981.6
25°	1925.9	1940.9	1949.8	1935.6	1918.8
27.5°	1834.7	1857.7	1884.3	1873.7	1855.1
30°	1732.9	1766.6	1810.8	1802.0	1788.7
32.5°	1636.5	1670.1	1731.2	1727.6	1720.5
35°	1548.8	1570.1	1641.8	1650.6	1644.4
37.5°	1465.6	1485.1	1552.4	1572.7	1567.4
40°	1378.0	1399.3	1452.4	1488.7	1490.4
42.5°	1291.3	1311.6	1355.0	1407.2	1407.2
45°	1199.2	1219.6	1259.4	1317.0	1324.0
47.5°	1109.0	1130.2	1169.2	1226.7	1238.2
50°	1020.5	1039.9	1078.9	1134.6	1152.3
52.5°	928.4	949.7	987.7	1039.1	1064.7
55°	839.9	854.1	895.7	945.2	972.7
57.5°	747.9	761.1	808.1	850.5	878.9
60°	659.4	676.2	712.5	755.8	788.6
62.5°	574.4	592.1	623.1	661.1	698.3
65°	492.1	505.4	535.5	573.5	606.3
67.5°	412.4	423.9	454.0	480.6	515.1
70°	331.9	346.9	369.1	394.7	416.9
72.5°	267.3	273.5	292.1	310.7	333.7
75°	197.4	208.0	223.0	233.7	246.9
77.5°	141.6	147.8	156.7	165.5	177.9
80°	94.7	97.4	105.3	107.1	116.8
82.5°	57.5	59.3	61.1	62.0	65.5
85°	31.0	31.0	31.0	29.2	29.2
87.5°	17.7	17.7	15.0	12.4	8.9
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)