

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: P555566

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-93-97-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: P555566  
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-93-97-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE  
AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND  
4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

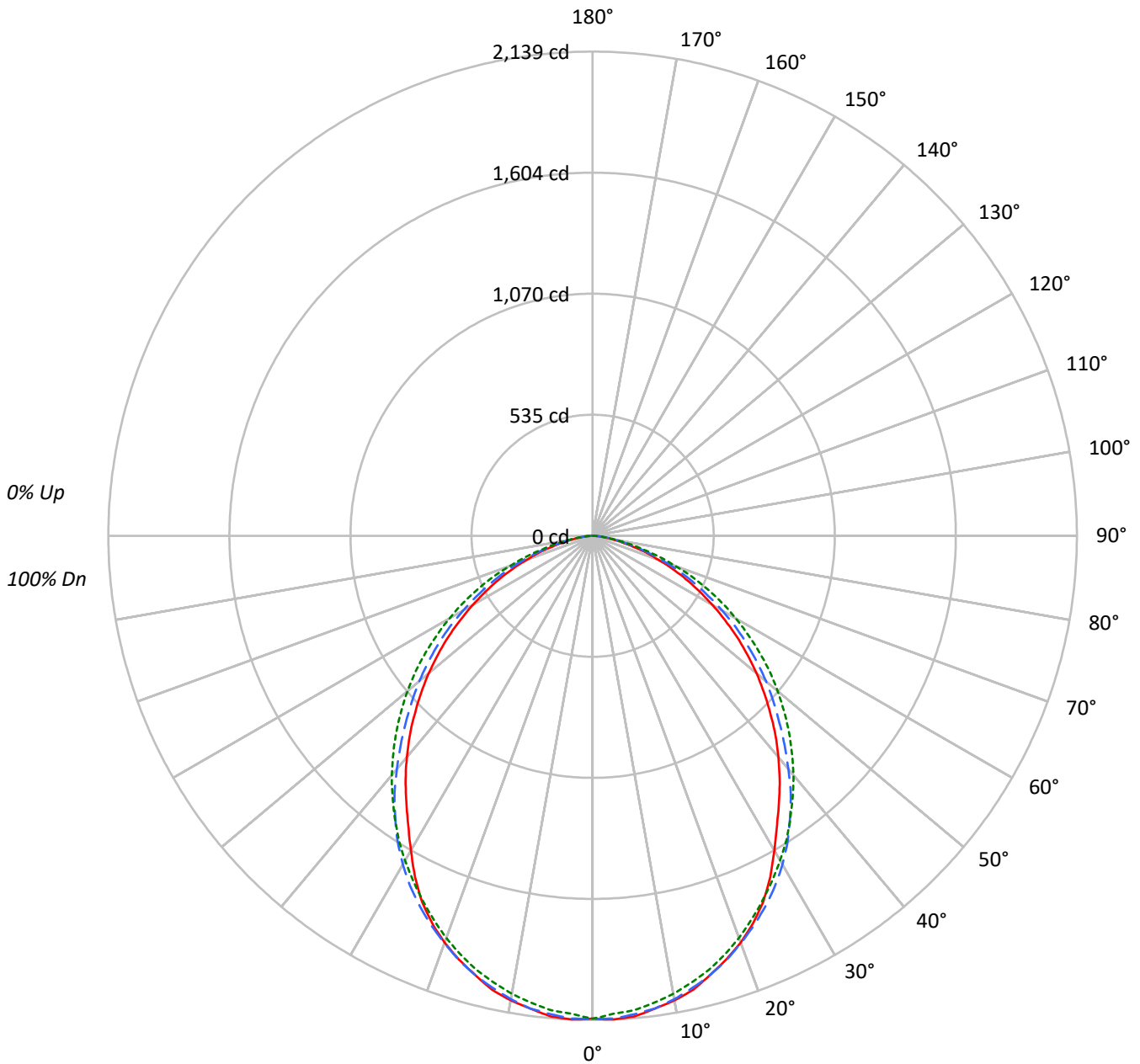
Lumens per Lamp: N/A  
Luminaire Lumens: 4933.0 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.8  
Input Voltage (V): NR  
Input Current (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°	11482	11482	11482
5°	11512	11464	11366
10°	11390	11359	11229
15°	11188	11188	11060
20°	10951	10966	10825
25°	10590	10722	10552
30°	9973	10421	10294
35°	9424	9989	10005
40°	8965	9449	9697
45°	8452	8877	9332
50°	7912	8365	8935
55°	7298	7782	8451
60°	6572	7102	7861
65°	5803	6315	7149
70°	4836	5378	6074
75°	3801	4294	4756
80°	2718	3022	3353
85°	1772	1772	1667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.9	4.1
10°-20°	564.3	11.4
20°-30°	824.6	16.7
30°-40°	936.0	19.0
40°-50°	903.6	18.3
50°-60°	745.4	15.1
60°-70°	496.4	10.1
70°-80°	222.1	4.5
80°-90°	39.7	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°	1589.8	32.2
0°-40°	2525.8	51.2
0°-60°	4174.8	84.6
0°-90°	4933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4933.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2133	2133	2133	2133	2133	
5°	2131	2130	2122	2110	2104	202
15°	2008	2013	2008	1999	1985	566
25°	1783	1797	1806	1792	1777	817
35°	1434	1454	1520	1528	1523	899
45°	1110	1129	1166	1220	1226	857
55°	778	791	829	875	901	694
65°	456	468	496	531	561	452
75°	183	193	206	216	229	200
85°	29	29	29	27	27	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2133.4	2133.4	2133.4	2133.4	2133.4
2.5°	2139.1	2140.0	2135.0	2121.9	2113.7
5°	2130.9	2130.1	2121.9	2110.4	2103.9
7.5°	2107.2	2108.8	2106.3	2090.0	2080.9
10°	2084.2	2085.0	2078.5	2065.4	2054.7
12.5°	2054.7	2053.9	2044.9	2038.3	2021.1
15°	2008.0	2012.9	2008.0	1999.0	1985.0
17.5°	1962.9	1962.9	1966.2	1950.6	1940.0
20°	1912.1	1914.6	1914.6	1902.3	1890.0
22.5°	1853.1	1860.5	1862.9	1849.8	1835.1
25°	1783.4	1797.4	1805.6	1792.4	1776.9
27.5°	1699.0	1720.3	1744.9	1735.1	1717.9
30°	1604.8	1635.9	1676.9	1668.7	1656.4
32.5°	1515.4	1546.6	1603.1	1599.8	1593.3
35°	1434.3	1454.0	1520.3	1528.5	1522.8
37.5°	1357.2	1375.3	1437.6	1456.4	1451.5
40°	1276.1	1295.8	1344.9	1378.6	1380.2
42.5°	1195.8	1214.6	1254.8	1303.1	1303.1
45°	1110.5	1129.4	1166.3	1219.6	1226.1
47.5°	1026.9	1046.6	1082.7	1136.0	1146.6
50°	945.0	963.0	999.1	1050.7	1067.1
52.5°	859.8	879.4	914.7	962.2	986.0
55°	777.8	790.9	829.4	875.3	900.7
57.5°	692.6	704.8	748.3	787.6	813.9
60°	610.6	626.2	659.8	699.9	730.3
62.5°	531.9	548.3	577.0	612.2	646.7
65°	455.7	468.0	495.9	531.1	561.4
67.5°	381.9	392.6	420.5	445.0	477.0
70°	307.3	321.3	341.8	365.5	386.0
72.5°	247.5	253.3	270.5	287.7	309.0
75°	182.8	192.6	206.5	216.4	228.7
77.5°	131.1	136.9	145.1	153.3	164.7
80°	87.7	90.2	97.5	99.2	108.2
82.5°	53.3	54.9	56.6	57.4	60.6
85°	28.7	28.7	28.7	27.0	27.0
87.5°	16.4	16.4	13.9	11.5	8.2
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)