

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: P555418

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-82-94-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: P555418  
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-30-UNV-82-94-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDES  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

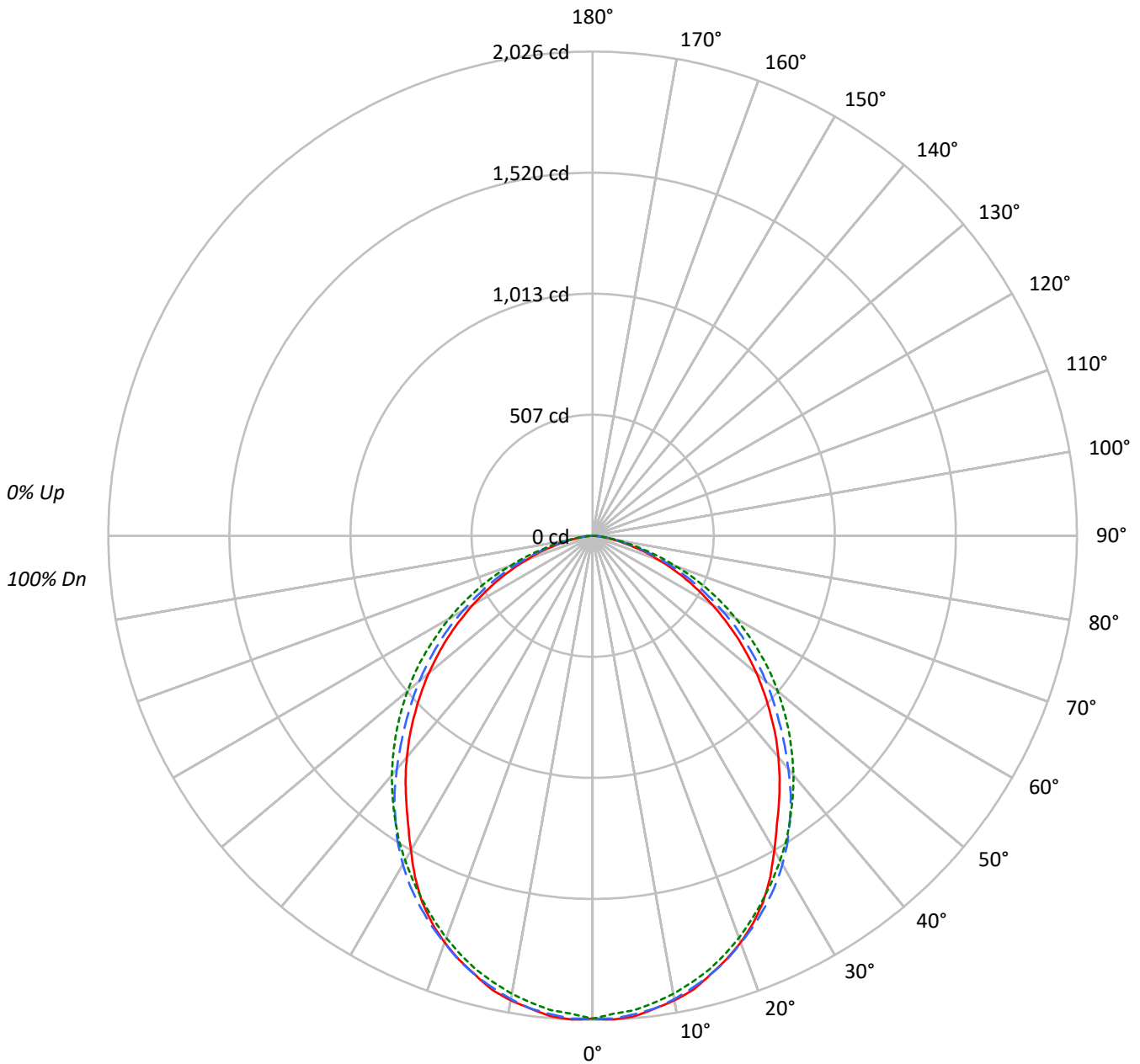
Lumens per Lamp: N/A  
Luminaire Lumens: 4672.0 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10874	10874	10874
5°	10903	10857	10765
10°	10787	10758	10635
15°	10596	10596	10475
20°	10372	10385	10252
25°	10030	10155	9994
30°	9445	9870	9749
35°	8925	9460	9475
40°	8491	8949	9184
45°	8005	8407	8838
50°	7494	7922	8462
55°	6912	7370	8005
60°	6225	6726	7444
65°	5496	5980	6771
70°	4581	5094	5753
75°	3599	4067	4504
80°	2576	2864	3177
85°	1680	1680	1581



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.2	4.1
10°-20°	534.4	11.4
20°-30°	781.0	16.7
30°-40°	886.5	19.0
40°-50°	855.8	18.3
50°-60°	706.0	15.1
60°-70°	470.1	10.1
70°-80°	210.4	4.5
80°-90°	37.6	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°	1505.7	32.2
0°-40°	2392.2	51.2
0°-60°	3953.9	84.6
0°-90°	4672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4672.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2020	2020	2020	2020	2020	
5°	2018	2017	2010	1999	1993	191
15°	1902	1906	1902	1893	1880	536
25°	1689	1702	1710	1698	1683	774
35°	1358	1377	1440	1448	1442	851
45°	1052	1070	1105	1155	1161	812
55°	737	749	786	829	853	657
65°	432	443	470	503	532	428
75°	173	182	196	205	217	189
85°	27	27	27	26	26	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2020.5	2020.5	2020.5	2020.5	2020.5
2.5°	2026.0	2026.7	2022.1	2009.7	2001.9
5°	2018.2	2017.4	2009.7	1998.8	1992.6
7.5°	1995.7	1997.2	1994.9	1979.4	1970.8
10°	1973.9	1974.7	1968.5	1956.1	1946.0
12.5°	1946.0	1945.2	1936.7	1930.5	1914.2
15°	1901.8	1906.4	1901.8	1893.2	1880.0
17.5°	1859.1	1859.1	1862.2	1847.4	1837.3
20°	1810.9	1813.3	1813.3	1801.6	1790.0
22.5°	1755.0	1762.0	1764.4	1751.9	1738.0
25°	1689.1	1702.3	1710.0	1697.6	1682.9
27.5°	1609.1	1629.3	1652.6	1643.3	1627.0
30°	1519.9	1549.3	1588.2	1580.4	1568.8
32.5°	1435.2	1464.7	1518.3	1515.2	1509.0
35°	1358.4	1377.0	1439.9	1447.7	1442.2
37.5°	1285.4	1302.5	1361.5	1379.4	1374.7
40°	1208.6	1227.2	1273.8	1305.6	1307.2
42.5°	1132.5	1150.4	1188.4	1234.2	1234.2
45°	1051.8	1069.6	1104.6	1155.0	1161.2
47.5°	972.6	991.2	1025.4	1075.9	1085.9
50°	895.0	912.1	946.2	995.1	1010.6
52.5°	814.3	832.9	866.3	911.3	933.8
55°	736.6	749.1	785.5	829.0	853.1
57.5°	655.9	667.6	708.7	746.0	770.8
60°	578.3	593.0	624.9	662.9	691.6
62.5°	503.8	519.3	546.5	579.8	612.4
65°	431.6	443.2	469.6	503.0	531.7
67.5°	361.7	371.8	398.2	421.5	451.8
70°	291.1	304.3	323.7	346.2	365.6
72.5°	234.4	239.9	256.2	272.5	292.6
75°	173.1	182.4	195.6	204.9	216.6
77.5°	124.2	129.6	137.4	145.2	156.0
80°	83.1	85.4	92.4	93.9	102.5
82.5°	50.5	52.0	53.6	54.3	57.4
85°	27.2	27.2	27.2	25.6	25.6
87.5°	15.5	15.5	13.2	10.9	7.8
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)