

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: P555937

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-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: P555937  
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-LD4-3STD-30-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 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

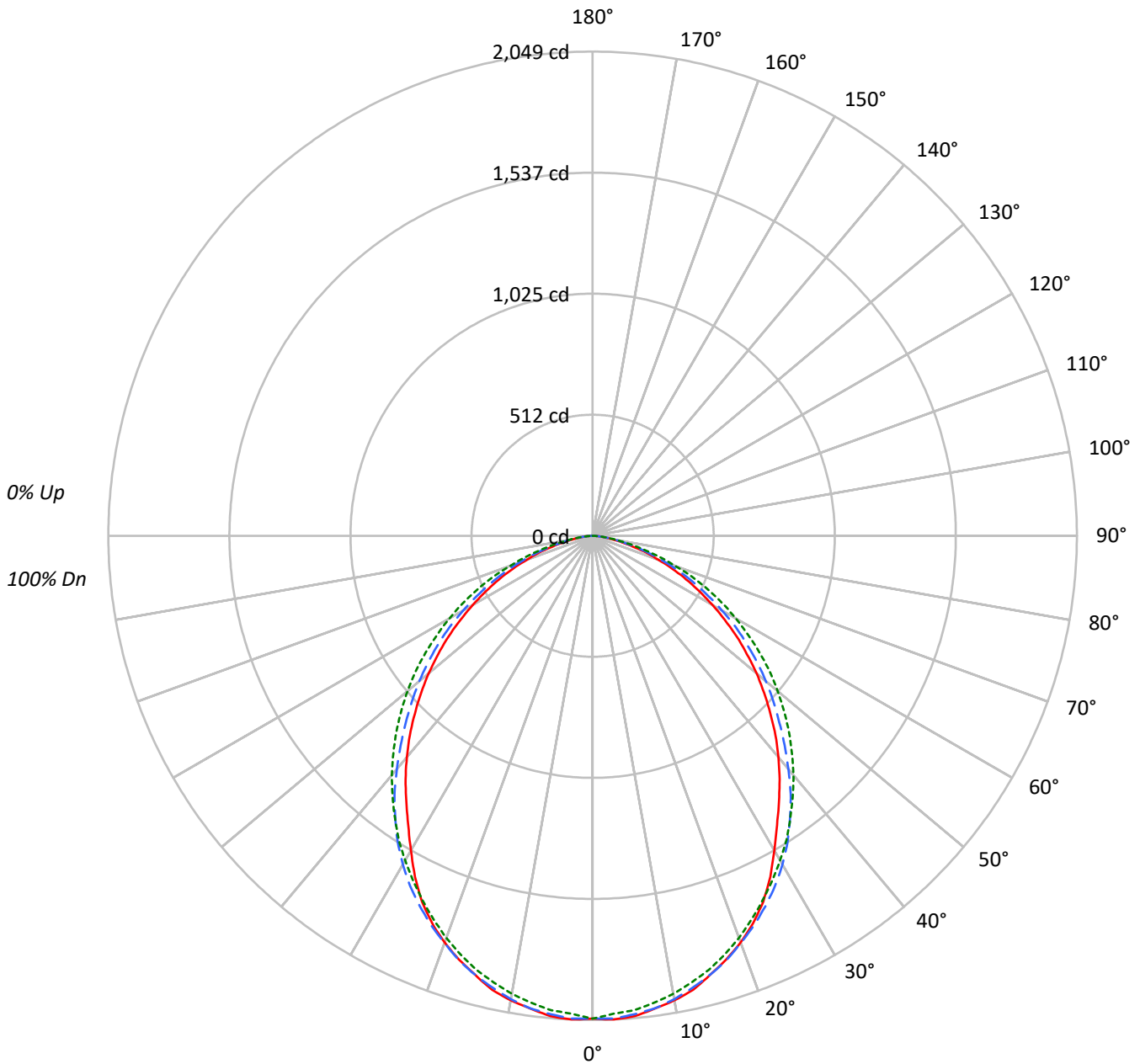
Lumens per Lamp: N/A  
Luminaire Lumens: 4725.0 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
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°	10997	10997	10997
5°	11027	10981	10887
10°	10910	10880	10756
15°	10716	10716	10594
20°	10490	10503	10368
25°	10144	10270	10107
30°	9552	9982	9860
35°	9026	9567	9583
40°	8587	9050	9288
45°	8096	8503	8939
50°	7578	8013	8558
55°	6990	7455	8096
60°	6295	6803	7529
65°	5559	6048	6848
70°	4633	5152	5819
75°	3641	4113	4554
80°	2603	2895	3211
85°	1698	1698	1599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.4	4.1
10°-20°	540.5	11.4
20°-30°	789.8	16.7
30°-40°	896.6	19.0
40°-50°	865.5	18.3
50°-60°	714.0	15.1
60°-70°	475.4	10.1
70°-80°	212.8	4.5
80°-90°	38.1	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°	1522.7	32.2
0°-40°	2419.3	51.2
0°-60°	3998.7	84.6
0°-90°	4725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4725.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2043	2043	2043	2043	2043	
5°	2041	2040	2032	2022	2015	193
15°	1923	1928	1923	1915	1901	542
25°	1708	1722	1729	1717	1702	782
35°	1374	1393	1456	1464	1459	861
45°	1064	1082	1117	1168	1174	821
55°	745	758	794	838	863	665
65°	436	448	475	509	538	433
75°	175	184	198	207	219	191
85°	28	28	28	26	26	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2043.4	2043.4	2043.4	2043.4	2043.4
2.5°	2048.9	2049.7	2045.0	2032.5	2024.6
5°	2041.1	2040.3	2032.5	2021.5	2015.2
7.5°	2018.3	2019.9	2017.5	2001.8	1993.2
10°	1996.3	1997.1	1990.8	1978.3	1968.1
12.5°	1968.1	1967.3	1958.7	1952.4	1935.9
15°	1923.3	1928.0	1923.3	1914.7	1901.3
17.5°	1880.2	1880.2	1883.3	1868.4	1858.2
20°	1831.5	1833.8	1833.8	1822.1	1810.3
22.5°	1775.0	1782.0	1784.4	1771.8	1757.7
25°	1708.2	1721.6	1729.4	1716.9	1702.0
27.5°	1627.4	1647.8	1671.3	1661.9	1645.4
30°	1537.1	1566.9	1606.2	1598.3	1586.6
32.5°	1451.5	1481.4	1535.5	1532.4	1526.1
35°	1373.8	1392.6	1456.2	1464.1	1458.6
37.5°	1300.0	1317.3	1376.9	1395.0	1390.3
40°	1222.3	1241.1	1288.2	1320.4	1322.0
42.5°	1145.4	1163.4	1201.9	1248.2	1248.2
45°	1063.7	1081.8	1117.1	1168.1	1174.4
47.5°	983.6	1002.5	1037.0	1088.1	1098.3
50°	905.1	922.4	957.0	1006.4	1022.1
52.5°	823.5	842.3	876.1	921.6	944.4
55°	745.0	757.6	794.5	838.4	862.8
57.5°	663.4	675.1	716.7	754.4	779.5
60°	584.8	599.8	632.0	670.4	699.5
62.5°	509.5	525.2	552.7	586.4	619.4
65°	436.5	448.3	474.9	508.7	537.7
67.5°	365.8	376.0	402.7	426.3	456.9
70°	294.4	307.7	327.4	350.1	369.8
72.5°	237.1	242.6	259.1	275.5	296.0
75°	175.1	184.5	197.8	207.2	219.0
77.5°	125.6	131.1	139.0	146.8	157.8
80°	84.0	86.4	93.4	95.0	103.6
82.5°	51.0	52.6	54.2	55.0	58.1
85°	27.5	27.5	27.5	25.9	25.9
87.5°	15.7	15.7	13.3	11.0	7.9
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)