

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: P555891

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-80-85-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: P555891  
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-80-85-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

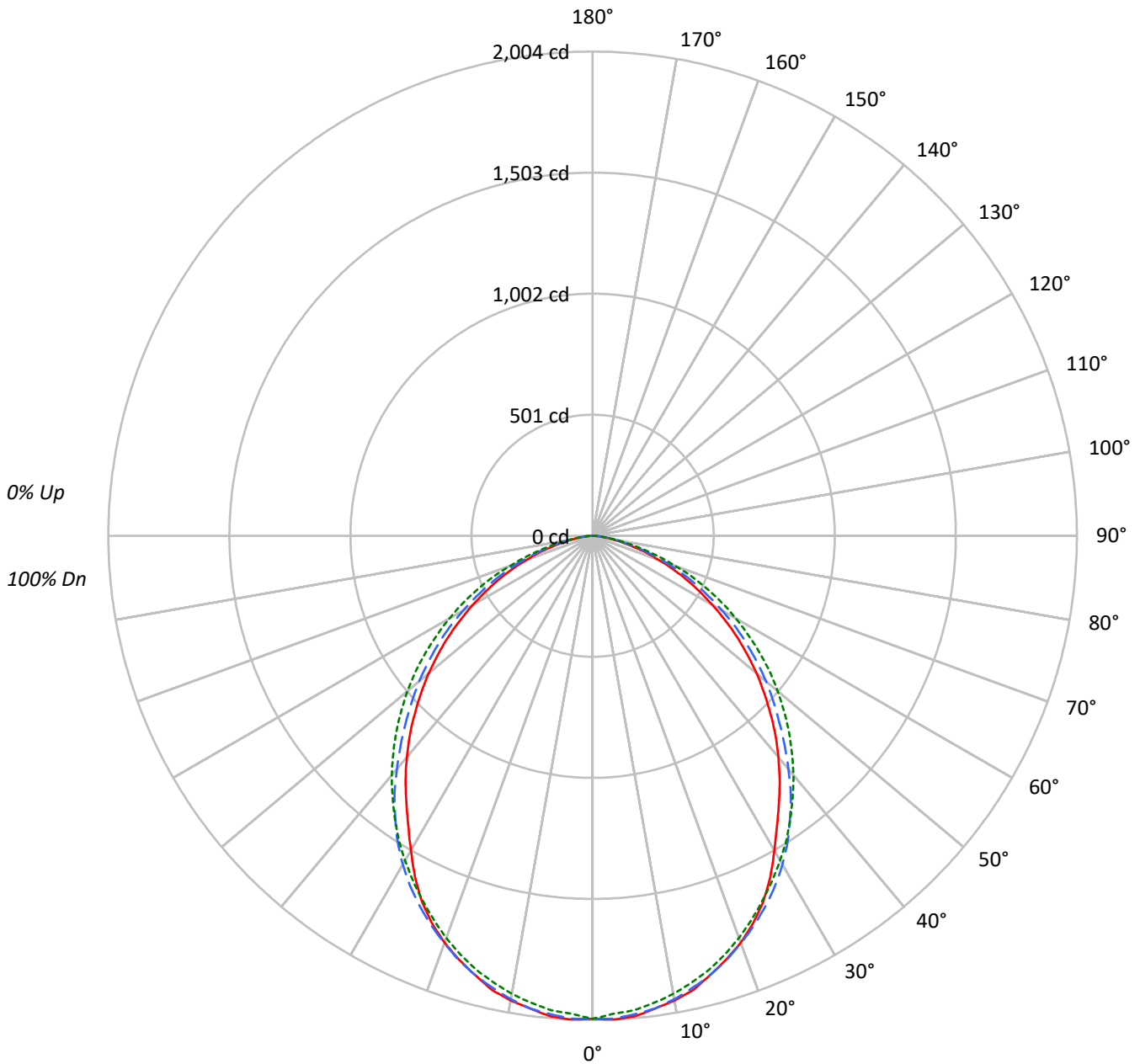
Lumens per Lamp: N/A  
Luminaire Lumens: 4622.0 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
Input Voltage (V): NR  
Input Current (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°	10758	10758	10758
5°	10787	10741	10650
10°	10672	10643	10521
15°	10483	10483	10363
20°	10261	10274	10142
25°	9923	10046	9887
30°	9344	9764	9645
35°	8830	9359	9374
40°	8401	8854	9086
45°	7919	8318	8744
50°	7413	7838	8371
55°	6838	7292	7918
60°	6158	6654	7365
65°	5438	5917	6699
70°	4532	5039	5692
75°	3560	4024	4454
80°	2548	2833	3143
85°	1661	1661	1562



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.2	4.1
10°-20°	528.7	11.4
20°-30°	772.6	16.7
30°-40°	877.0	19.0
40°-50°	846.6	18.3
50°-60°	698.4	15.1
60°-70°	465.1	10.1
70°-80°	208.1	4.5
80°-90°	37.3	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°	1489.5	32.2
0°-40°	2366.6	51.2
0°-60°	3911.6	84.6
0°-90°	4622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4622.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1999	1999	1999	1999	1999	
5°	1997	1996	1988	1977	1971	189
15°	1881	1886	1881	1873	1860	530
25°	1671	1684	1692	1679	1665	765
35°	1344	1362	1424	1432	1427	842
45°	1040	1058	1093	1143	1149	803
55°	729	741	777	820	844	650
65°	427	438	465	498	526	423
75°	171	180	194	203	214	187
85°	27	27	27	25	25	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1998.9	1998.9	1998.9	1998.9	1998.9
2.5°	2004.3	2005.0	2000.4	1988.1	1980.5
5°	1996.6	1995.8	1988.1	1977.4	1971.3
7.5°	1974.3	1975.9	1973.6	1958.2	1949.7
10°	1952.8	1953.6	1947.4	1935.2	1925.2
12.5°	1925.2	1924.4	1916.0	1909.8	1893.7
15°	1881.4	1886.0	1881.4	1873.0	1859.9
17.5°	1839.2	1839.2	1842.2	1827.6	1817.7
20°	1791.6	1793.9	1793.9	1782.3	1770.8
22.5°	1736.3	1743.2	1745.5	1733.2	1719.4
25°	1671.0	1684.0	1691.7	1679.4	1664.9
27.5°	1591.9	1611.9	1634.9	1625.7	1609.6
30°	1503.6	1532.8	1571.2	1563.5	1552.0
32.5°	1419.9	1449.1	1502.1	1499.0	1492.8
35°	1343.9	1362.3	1424.5	1432.2	1426.8
37.5°	1271.7	1288.6	1346.9	1364.6	1360.0
40°	1195.7	1214.1	1260.2	1291.6	1293.2
42.5°	1120.4	1138.1	1175.7	1221.0	1221.0
45°	1040.5	1058.2	1092.8	1142.7	1148.8
47.5°	962.2	980.6	1014.4	1064.3	1074.3
50°	885.4	902.3	936.1	984.5	999.8
52.5°	805.5	824.0	857.0	901.5	923.8
55°	728.8	741.0	777.1	820.1	843.9
57.5°	648.9	660.4	701.1	738.0	762.5
60°	572.1	586.7	618.2	655.8	684.2
62.5°	498.4	513.7	540.6	573.6	605.9
65°	427.0	438.5	464.6	497.6	526.0
67.5°	357.9	367.8	393.9	417.0	446.9
70°	288.0	301.0	320.2	342.5	361.7
72.5°	231.9	237.3	253.4	269.5	289.5
75°	171.2	180.5	193.5	202.7	214.2
77.5°	122.9	128.2	135.9	143.6	154.4
80°	82.2	84.5	91.4	92.9	101.4
82.5°	49.9	51.5	53.0	53.8	56.8
85°	26.9	26.9	26.9	25.3	25.3
87.5°	15.4	15.4	13.1	10.8	7.7
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)