

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: P555900

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-80-96-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: P555900
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-80-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

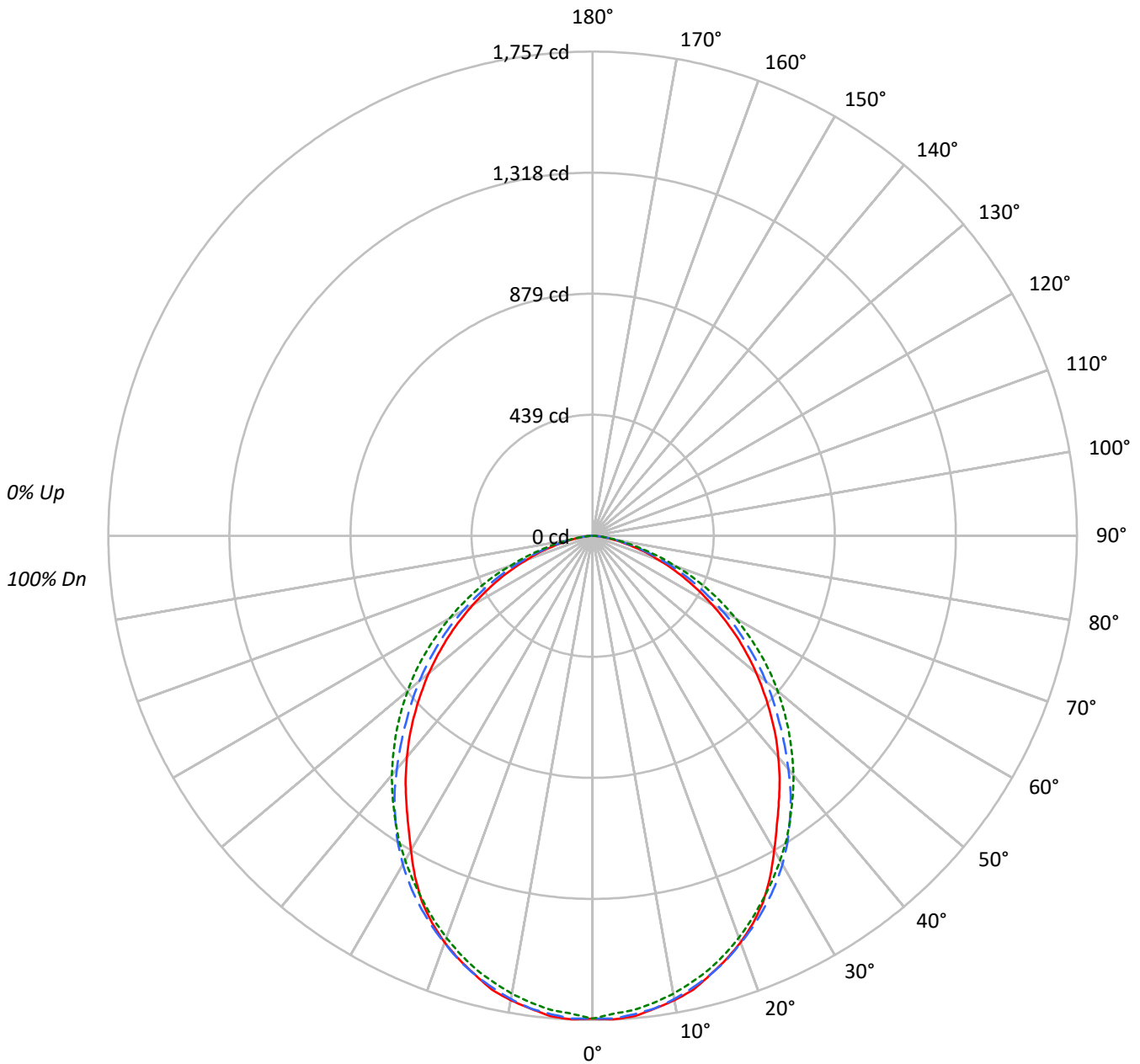
Lumens per Lamp: N/A
Luminaire Lumens: 4051.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (A_{in}): 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°	9429	9429	9429
5°	9454	9414	9334
10°	9354	9328	9221
15°	9188	9188	9083
20°	8993	9005	8889
25°	8697	8805	8665
30°	8190	8558	8453
35°	7738	8203	8216
40°	7362	7760	7963
45°	6941	7290	7664
50°	6497	6869	7337
55°	5993	6391	6941
60°	5397	5832	6455
65°	4765	5186	5871
70°	3972	4417	4988
75°	3121	3527	3905
80°	2232	2483	2752
85°	1457	1457	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	4.1
10°-20°	463.4	11.4
20°-30°	677.2	16.7
30°-40°	768.7	19.0
40°-50°	742.0	18.3
50°-60°	612.1	15.1
60°-70°	407.6	10.1
70°-80°	182.4	4.5
80°-90°	32.6	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°	1305.5	32.2
0°-40°	2074.2	51.2
0°-60°	3428.3	84.6
0°-90°	4051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1752	1752	1752	1752	1752	
5°	1750	1749	1742	1733	1728	166
15°	1649	1653	1649	1642	1630	465
25°	1465	1476	1483	1472	1459	671
35°	1178	1194	1248	1255	1250	738
45°	912	928	958	1002	1007	704
55°	639	650	681	719	740	570
65°	374	384	407	436	461	371
75°	150	158	170	178	188	164
85°	24	24	24	22	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1752.0	1752.0	1752.0	1752.0	1752.0
2.5°	1756.7	1757.3	1753.3	1742.5	1735.8
5°	1749.9	1749.3	1742.5	1733.1	1727.7
7.5°	1730.4	1731.8	1729.7	1716.3	1708.9
10°	1711.6	1712.2	1706.9	1696.1	1687.3
12.5°	1687.3	1686.7	1679.3	1673.9	1659.7
15°	1649.0	1653.0	1649.0	1641.6	1630.1
17.5°	1612.0	1612.0	1614.7	1601.9	1593.1
20°	1570.2	1572.2	1572.2	1562.2	1552.1
22.5°	1521.8	1527.8	1529.8	1519.1	1507.0
25°	1464.6	1476.0	1482.7	1472.0	1459.2
27.5°	1395.2	1412.7	1432.9	1424.8	1410.7
30°	1317.8	1343.4	1377.1	1370.3	1360.2
32.5°	1244.5	1270.0	1316.5	1313.8	1308.4
35°	1177.8	1194.0	1248.5	1255.2	1250.5
37.5°	1114.6	1129.4	1180.5	1196.0	1192.0
40°	1047.9	1064.1	1104.5	1132.1	1133.4
42.5°	982.0	997.5	1030.4	1070.2	1070.2
45°	912.0	927.5	957.8	1001.5	1006.9
47.5°	843.3	859.5	889.1	932.8	941.6
50°	776.0	790.8	820.4	862.9	876.3
52.5°	706.0	722.2	751.1	790.2	809.7
55°	638.7	649.5	681.1	718.8	739.7
57.5°	568.7	578.8	614.5	646.8	668.3
60°	501.4	514.2	541.8	574.8	599.7
62.5°	436.8	450.3	473.8	502.8	531.0
65°	374.2	384.3	407.2	436.1	461.0
67.5°	313.6	322.4	345.3	365.5	391.7
70°	252.4	263.8	280.7	300.2	317.0
72.5°	203.3	208.0	222.1	236.2	253.7
75°	150.1	158.2	169.6	177.7	187.8
77.5°	107.7	112.4	119.1	125.9	135.3
80°	72.0	74.0	80.1	81.4	88.8
82.5°	43.7	45.1	46.4	47.1	49.8
85°	23.6	23.6	23.6	22.2	22.2
87.5°	13.5	13.5	11.4	9.4	6.7
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)