

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: P555178

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-93-94-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: P555178
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-LD4-2STD-30-UNV-93-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

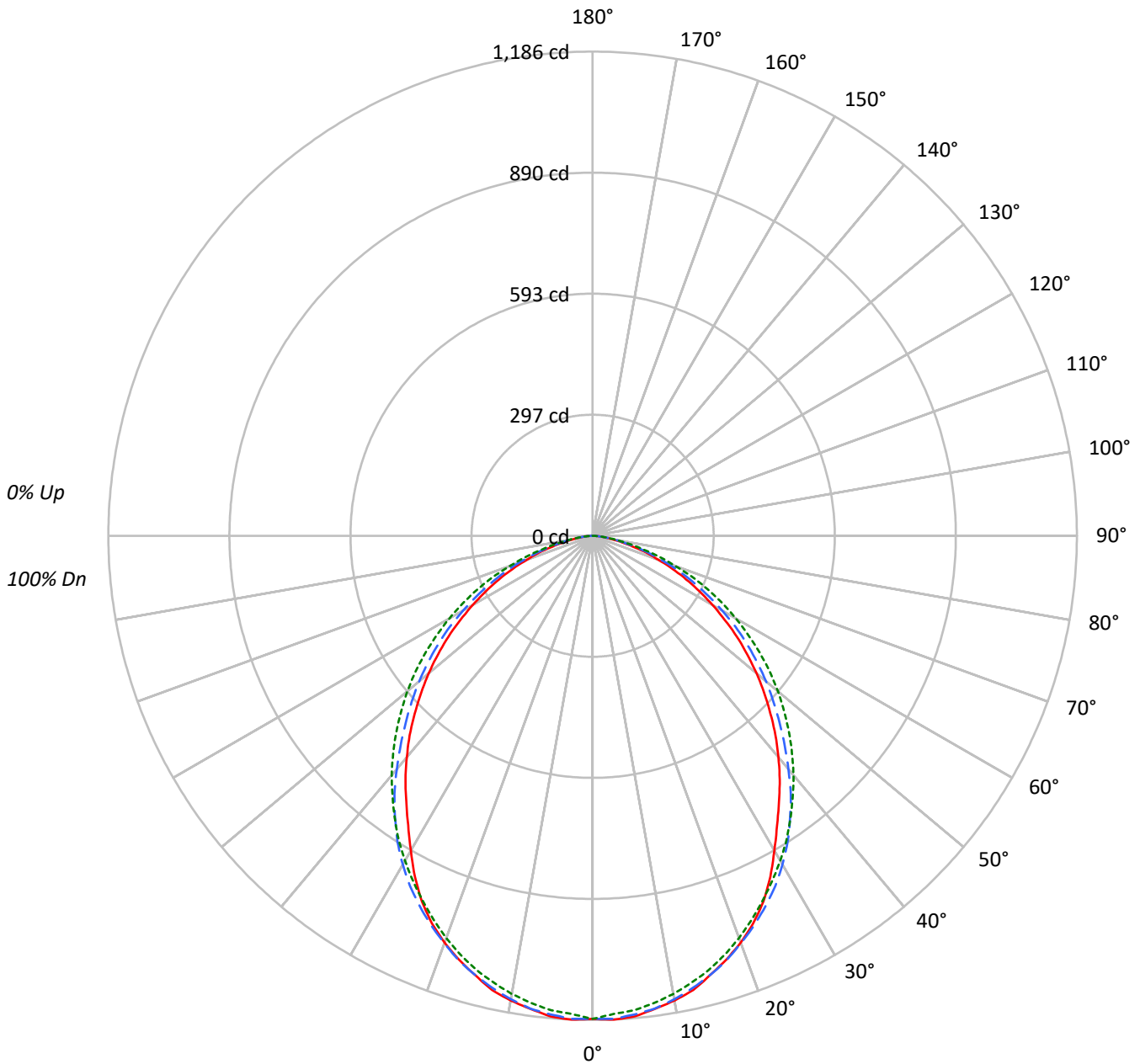
Lumens per Lamp: N/A
Luminaire Lumens: 2736.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	6368	6368	6368
5°	6385	6358	6304
10°	6318	6300	6228
15°	6205	6205	6135
20°	6074	6082	6003
25°	5874	5947	5852
30°	5532	5780	5709
35°	5227	5540	5549
40°	4973	5241	5378
45°	4688	4924	5176
50°	4388	4639	4956
55°	4048	4316	4688
60°	3646	3939	4359
65°	3218	3502	3966
70°	2683	2984	3369
75°	2109	2383	2637
80°	1506	1677	1860
85°	982	982	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	4.1
10°-20°	313.0	11.4
20°-30°	457.4	16.7
30°-40°	519.2	19.0
40°-50°	501.2	18.3
50°-60°	413.4	15.1
60°-70°	275.3	10.1
70°-80°	123.2	4.5
80°-90°	22.0	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°	881.7	32.2
0°-40°	1400.9	51.2
0°-60°	2315.5	84.6
0°-90°	2736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1183	1183	1183	1183	1183	
5°	1182	1181	1177	1170	1167	112
15°	1114	1116	1114	1109	1101	314
25°	989	997	1001	994	986	453
35°	796	806	843	848	845	498
45°	616	626	647	676	680	475
55°	431	439	460	486	500	385
65°	253	260	275	295	311	251
75°	101	107	115	120	127	111
85°	16	16	16	15	15	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1183.2	1183.2	1183.2	1183.2	1183.2
2.5°	1186.4	1186.9	1184.2	1176.9	1172.3
5°	1181.9	1181.4	1176.9	1170.5	1166.9
7.5°	1168.7	1169.6	1168.2	1159.2	1154.2
10°	1156.0	1156.4	1152.8	1145.5	1139.6
12.5°	1139.6	1139.2	1134.2	1130.5	1121.0
15°	1113.7	1116.4	1113.7	1108.7	1101.0
17.5°	1088.7	1088.7	1090.5	1081.9	1076.0
20°	1060.5	1061.9	1061.9	1055.1	1048.2
22.5°	1027.8	1031.9	1033.2	1026.0	1017.8
25°	989.1	996.9	1001.4	994.1	985.5
27.5°	942.3	954.1	967.8	962.3	952.8
30°	890.1	907.3	930.1	925.5	918.7
32.5°	840.5	857.8	889.1	887.3	883.7
35°	795.5	806.4	843.2	847.8	844.6
37.5°	752.8	762.8	797.3	807.8	805.0
40°	707.8	718.7	746.0	764.6	765.5
42.5°	663.2	673.7	695.9	722.8	722.8
45°	615.9	626.4	646.9	676.4	680.0
47.5°	569.6	580.5	600.5	630.0	635.9
50°	524.1	534.1	554.1	582.8	591.9
52.5°	476.8	487.8	507.3	533.7	546.8
55°	431.4	438.7	460.0	485.5	499.6
57.5°	384.1	390.9	415.0	436.8	451.4
60°	338.7	347.3	365.9	388.2	405.0
62.5°	295.0	304.1	320.0	339.6	358.7
65°	252.7	259.6	275.0	294.6	311.4
67.5°	211.8	217.7	233.2	246.8	264.6
70°	170.5	178.2	189.6	202.7	214.1
72.5°	137.3	140.5	150.0	159.6	171.4
75°	101.4	106.8	114.6	120.0	126.8
77.5°	72.7	75.9	80.5	85.0	91.4
80°	48.6	50.0	54.1	55.0	60.0
82.5°	29.5	30.5	31.4	31.8	33.6
85°	15.9	15.9	15.9	15.0	15.0
87.5°	9.1	9.1	7.7	6.4	4.5
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)