

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: P554593

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-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: P554593
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-LD4-1STD-50-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

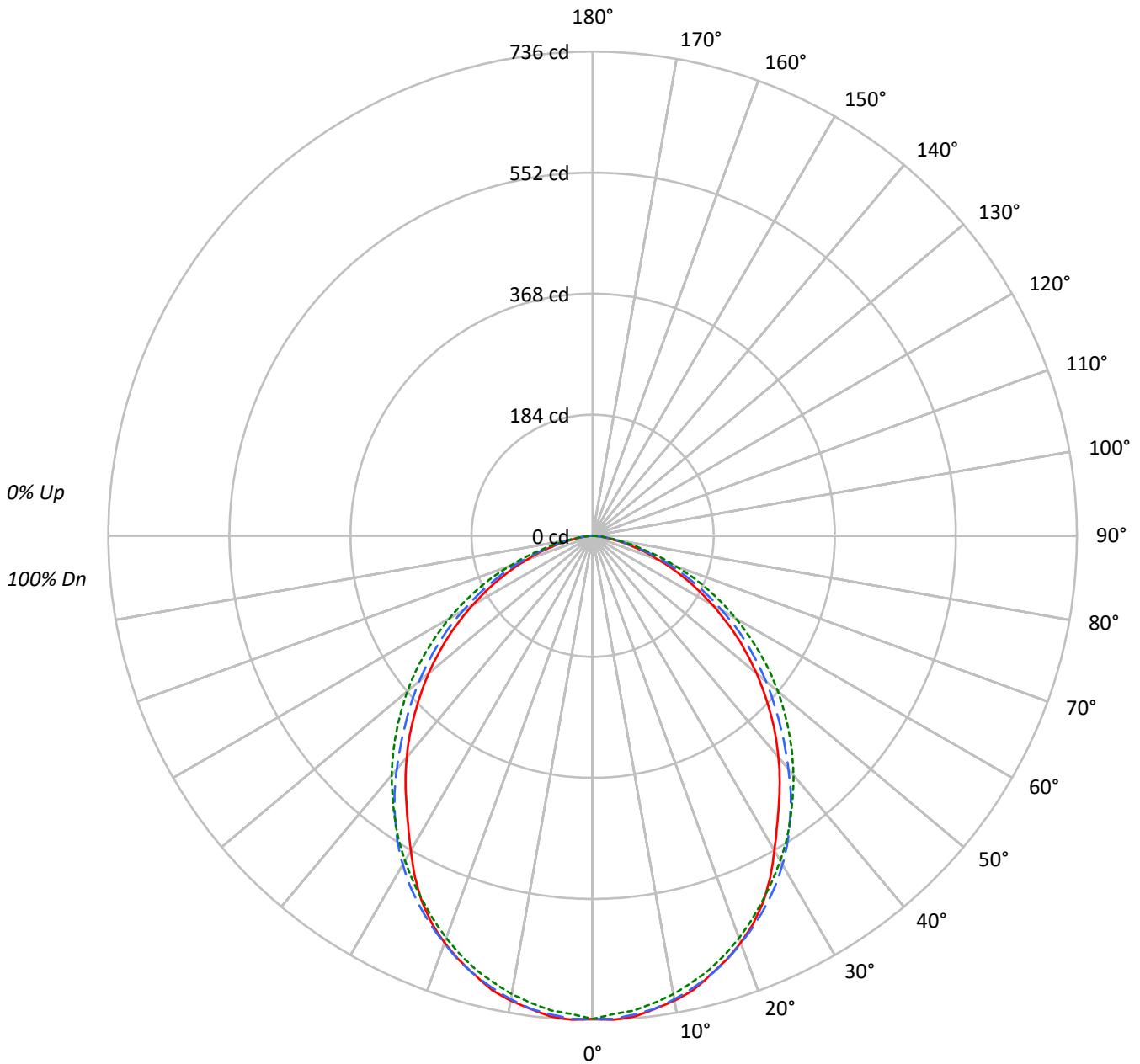
Lumens per Lamp: N/A
Luminaire Lumens: 1698.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	3952	3952	3952
5°	3963	3946	3913
10°	3921	3910	3865
15°	3851	3851	3807
20°	3770	3774	3726
25°	3646	3691	3632
30°	3433	3587	3544
35°	3244	3438	3444
40°	3086	3252	3338
45°	2910	3055	3212
50°	2724	2879	3075
55°	2512	2679	2909
60°	2263	2444	2706
65°	1998	2174	2460
70°	1665	1851	2091
75°	1308	1478	1637
80°	936	1041	1153
85°	611	611	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	4.1
10°-20°	194.2	11.4
20°-30°	283.8	16.7
30°-40°	322.2	19.0
40°-50°	311.0	18.3
50°-60°	256.6	15.1
60°-70°	170.9	10.1
70°-80°	76.5	4.5
80°-90°	13.7	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°	547.2	32.2
0°-40°	869.4	51.2
0°-60°	1437.0	84.6
0°-90°	1698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	734	733	730	726	724	69
15°	691	693	691	688	683	195
25°	614	619	622	617	612	281
35°	494	500	523	526	524	309
45°	382	389	401	420	422	295
55°	268	272	286	301	310	239
65°	157	161	171	183	193	156
75°	63	66	71	74	79	69
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	734.3	734.3	734.3	734.3	734.3
2.5°	736.3	736.6	734.9	730.4	727.6
5°	733.5	733.2	730.4	726.4	724.2
7.5°	725.3	725.9	725.0	719.4	716.3
10°	717.4	717.7	715.4	710.9	707.3
12.5°	707.3	707.0	703.9	701.6	695.7
15°	691.2	692.9	691.2	688.1	683.3
17.5°	675.7	675.7	676.8	671.4	667.8
20°	658.2	659.0	659.0	654.8	650.6
22.5°	637.9	640.4	641.2	636.7	631.7
25°	613.9	618.7	621.5	617.0	611.6
27.5°	584.8	592.2	600.6	597.2	591.3
30°	552.4	563.1	577.2	574.4	570.2
32.5°	521.6	532.3	551.8	550.7	548.4
35°	493.7	500.5	523.3	526.1	524.2
37.5°	467.2	473.4	494.8	501.3	499.6
40°	439.3	446.0	462.9	474.5	475.1
42.5°	411.6	418.1	431.9	448.6	448.6
45°	382.3	388.8	401.4	419.8	422.0
47.5°	353.5	360.3	372.7	391.0	394.7
50°	325.3	331.5	343.9	361.7	367.3
52.5°	295.9	302.7	314.8	331.2	339.4
55°	267.7	272.2	285.5	301.3	310.0
57.5°	238.4	242.6	257.6	271.1	280.1
60°	210.2	215.5	227.1	240.9	251.4
62.5°	183.1	188.7	198.6	210.7	222.6
65°	156.9	161.1	170.7	182.8	193.2
67.5°	131.5	135.1	144.7	153.2	164.2
70°	105.8	110.6	117.6	125.8	132.9
72.5°	85.2	87.2	93.1	99.0	106.4
75°	62.9	66.3	71.1	74.5	78.7
77.5°	45.1	47.1	49.9	52.8	56.7
80°	30.2	31.0	33.6	34.1	37.2
82.5°	18.3	18.9	19.5	19.7	20.9
85°	9.9	9.9	9.9	9.3	9.3
87.5°	5.6	5.6	4.8	3.9	2.8
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)