

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: P554589

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-82-96-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: P554589
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-82-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

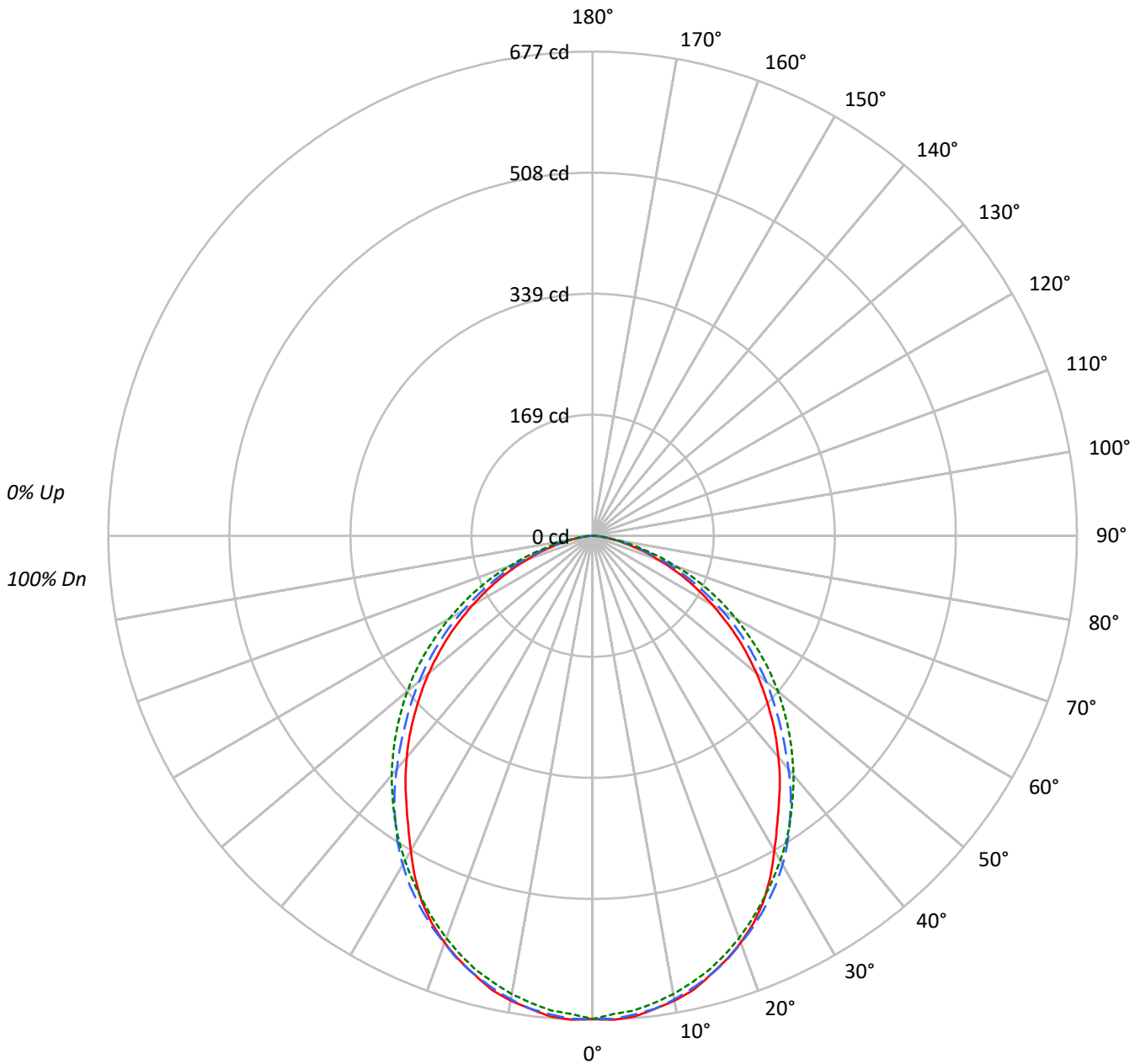
Lumens per Lamp: N/A
Luminaire Lumens: 1562.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3636	3636	3636
5°	3645	3630	3599
10°	3607	3597	3556
15°	3543	3543	3502
20°	3468	3472	3427
25°	3353	3395	3341
30°	3158	3300	3260
35°	2984	3163	3168
40°	2839	2992	3070
45°	2676	2811	2955
50°	2505	2649	2829
55°	2311	2464	2676
60°	2081	2249	2489
65°	1838	1999	2264
70°	1531	1703	1923
75°	1204	1360	1506
80°	862	958	1063
85°	562	562	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	4.1
10°-20°	178.7	11.4
20°-30°	261.1	16.7
30°-40°	296.4	19.0
40°-50°	286.1	18.3
50°-60°	236.0	15.1
60°-70°	157.2	10.1
70°-80°	70.3	4.5
80°-90°	12.6	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°	503.4	32.2
0°-40°	799.8	51.2
0°-60°	1321.9	84.6
0°-90°	1562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	675	674	672	668	666	64
15°	636	637	636	633	629	179
25°	565	569	572	568	563	259
35°	454	460	481	484	482	285
45°	352	358	369	386	388	271
55°	246	250	263	277	285	220
65°	144	148	157	168	178	143
75°	58	61	65	68	72	63
85°	9	9	9	9	9	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	675.5	675.5	675.5	675.5	675.5
2.5°	677.3	677.6	676.0	671.9	669.3
5°	674.7	674.5	671.9	668.3	666.2
7.5°	667.2	667.7	667.0	661.8	658.9
10°	660.0	660.2	658.1	654.0	650.6
12.5°	650.6	650.4	647.5	645.4	640.0
15°	635.8	637.4	635.8	633.0	628.6
17.5°	621.5	621.5	622.6	617.7	614.3
20°	605.5	606.2	606.2	602.3	598.4
22.5°	586.8	589.1	589.9	585.7	581.1
25°	564.7	569.1	571.7	567.6	562.6
27.5°	538.0	544.7	552.5	549.4	543.9
30°	508.1	518.0	531.0	528.4	524.5
32.5°	479.8	489.7	507.6	506.6	504.5
35°	454.2	460.4	481.4	484.0	482.2
37.5°	429.8	435.5	455.2	461.2	459.6
40°	404.1	410.3	425.9	436.5	437.0
42.5°	378.6	384.6	397.3	412.6	412.6
45°	351.6	357.6	369.3	386.2	388.2
47.5°	325.2	331.4	342.8	359.7	363.1
50°	299.2	304.9	316.4	332.7	337.9
52.5°	272.2	278.5	289.6	304.7	312.2
55°	246.3	250.4	262.6	277.2	285.2
57.5°	219.3	223.2	236.9	249.4	257.7
60°	193.3	198.3	208.9	221.6	231.2
62.5°	168.4	173.6	182.7	193.9	204.8
65°	144.3	148.2	157.0	168.2	177.8
67.5°	120.9	124.3	133.1	140.9	151.0
70°	97.3	101.7	108.2	115.7	122.2
72.5°	78.4	80.2	85.6	91.1	97.8
75°	57.9	61.0	65.4	68.5	72.4
77.5°	41.5	43.3	45.9	48.5	52.2
80°	27.8	28.5	30.9	31.4	34.3
82.5°	16.9	17.4	17.9	18.2	19.2
85°	9.1	9.1	9.1	8.6	8.6
87.5°	5.2	5.2	4.4	3.6	2.6
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)