

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: P554565

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-81-86-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: P554565
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-81-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

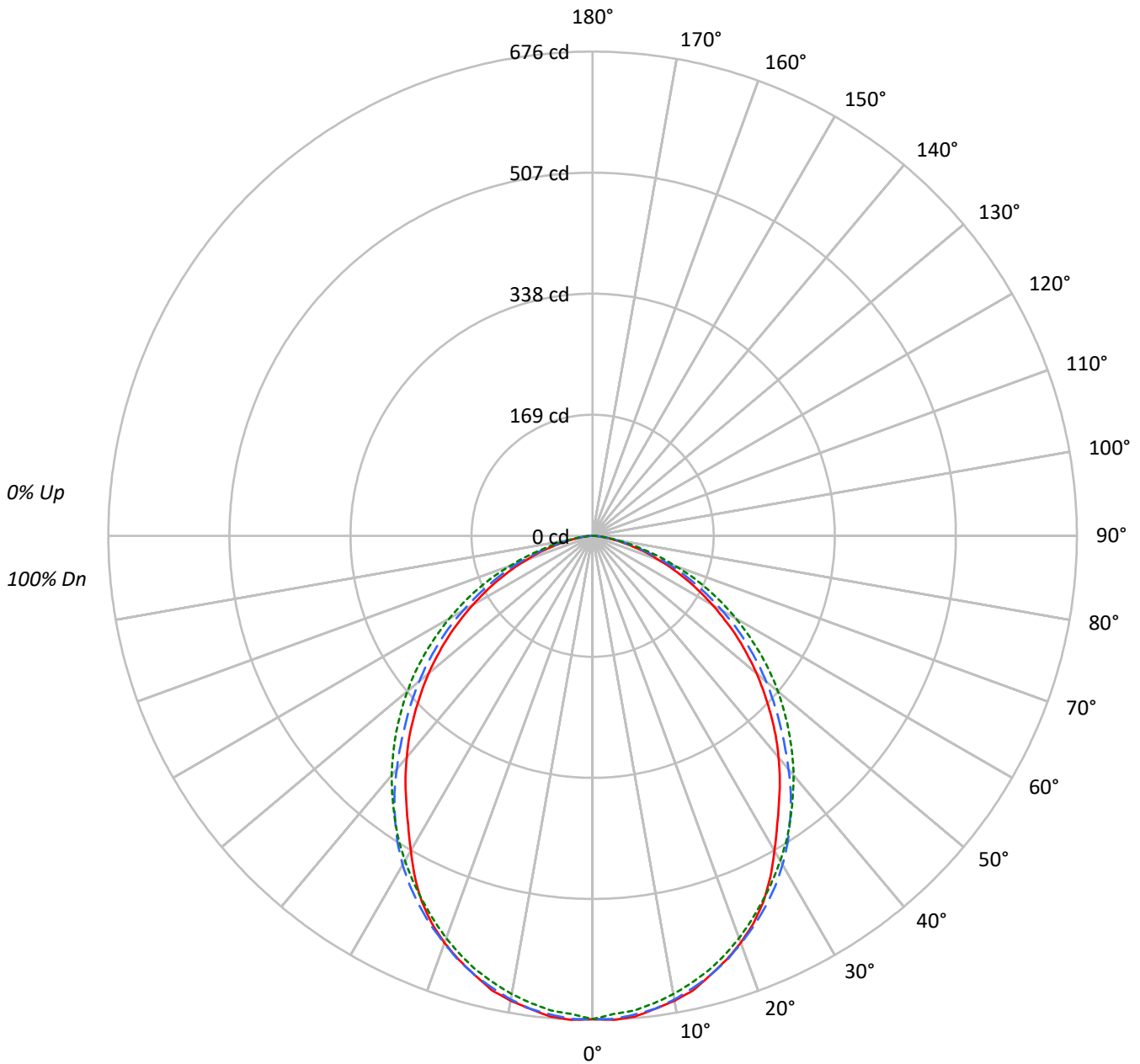
Lumens per Lamp: N/A
Luminaire Lumens: 1560.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	3631	3631	3631
5°	3641	3625	3594
10°	3602	3592	3551
15°	3538	3538	3497
20°	3463	3468	3423
25°	3349	3391	3337
30°	3154	3296	3255
35°	2980	3159	3164
40°	2836	2988	3067
45°	2673	2807	2951
50°	2502	2645	2826
55°	2308	2461	2672
60°	2079	2245	2485
65°	1835	1997	2260
70°	1530	1701	1921
75°	1202	1358	1503
80°	859	955	1060
85°	562	562	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	4.1
10°-20°	178.5	11.4
20°-30°	260.8	16.7
30°-40°	296.0	19.0
40°-50°	285.7	18.3
50°-60°	235.7	15.1
60°-70°	157.0	10.1
70°-80°	70.2	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°	502.7	32.2
0°-40°	798.8	51.2
0°-60°	1320.2	84.6
0°-90°	1560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1560.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	674	674	671	667	665	64
15°	635	637	635	632	628	179
25°	564	568	571	567	562	258
35°	454	460	481	483	482	284
45°	351	357	369	386	388	271
55°	246	250	262	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°	674.7	674.7	674.7	674.7	674.7
2.5°	676.5	676.7	675.2	671.0	668.4
5°	673.9	673.6	671.0	667.4	665.3
7.5°	666.4	666.9	666.1	660.9	658.1
10°	659.1	659.4	657.3	653.1	649.8
12.5°	649.8	649.5	646.7	644.6	639.2
15°	635.0	636.6	635.0	632.2	627.7
17.5°	620.7	620.7	621.8	616.9	613.5
20°	604.7	605.5	605.5	601.6	597.7
22.5°	586.0	588.4	589.1	585.0	580.3
25°	564.0	568.4	571.0	566.8	561.9
27.5°	537.3	544.0	551.8	548.7	543.3
30°	507.5	517.3	530.3	527.7	523.8
32.5°	479.2	489.1	507.0	505.9	503.9
35°	453.6	459.8	480.8	483.4	481.6
37.5°	429.2	434.9	454.6	460.6	459.0
40°	403.6	409.8	425.3	435.9	436.5
42.5°	378.2	384.1	396.8	412.1	412.1
45°	351.2	357.2	368.8	385.7	387.7
47.5°	324.8	331.0	342.4	359.2	362.6
50°	298.8	304.5	315.9	332.3	337.5
52.5°	271.9	278.1	289.3	304.3	311.8
55°	246.0	250.1	262.3	276.8	284.8
57.5°	219.0	222.9	236.6	249.1	257.4
60°	193.1	198.0	208.6	221.3	230.9
62.5°	168.2	173.4	182.5	193.6	204.5
65°	144.1	148.0	156.8	168.0	177.5
67.5°	120.8	124.1	133.0	140.7	150.8
70°	97.2	101.6	108.1	115.6	122.1
72.5°	78.3	80.1	85.5	91.0	97.7
75°	57.8	60.9	65.3	68.4	72.3
77.5°	41.5	43.3	45.9	48.5	52.1
80°	27.7	28.5	30.8	31.4	34.2
82.5°	16.8	17.4	17.9	18.1	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)