

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: P554563

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-81-85-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: P554563
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-81-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

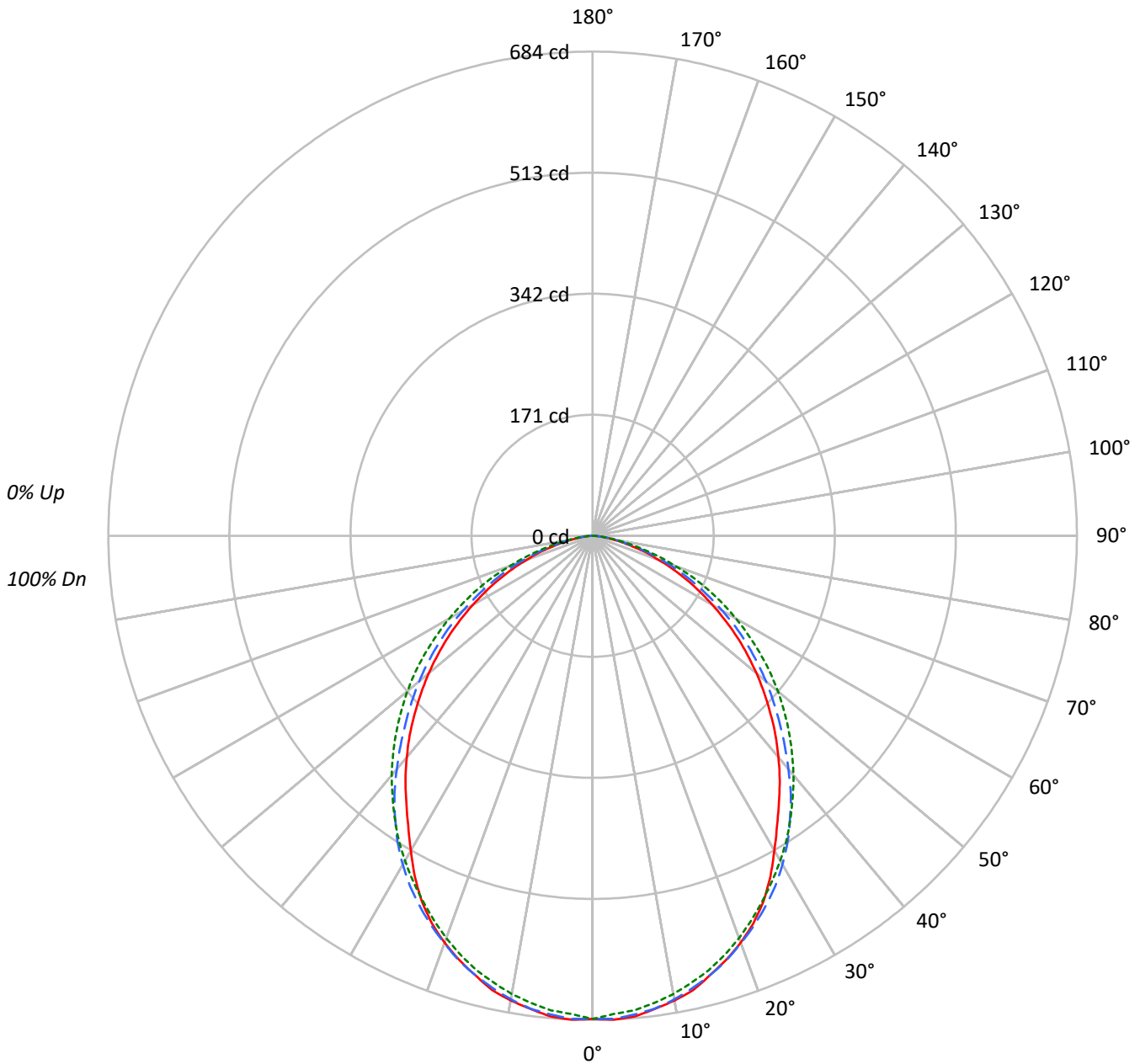
Lumens per Lamp: N/A
Luminaire Lumens: 1578.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (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°	3673	3673	3673
5°	3683	3667	3636
10°	3644	3634	3592
15°	3579	3579	3538
20°	3503	3507	3463
25°	3388	3430	3375
30°	3190	3333	3293
35°	3014	3195	3200
40°	2868	3022	3102
45°	2704	2840	2985
50°	2531	2676	2858
55°	2335	2489	2703
60°	2102	2272	2514
65°	1857	2020	2287
70°	1547	1720	1943
75°	1216	1375	1520
80°	871	967	1072
85°	568	568	537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	4.1
10°-20°	180.5	11.4
20°-30°	263.8	16.7
30°-40°	299.4	19.0
40°-50°	289.0	18.3
50°-60°	238.4	15.1
60°-70°	158.8	10.1
70°-80°	71.0	4.5
80°-90°	12.7	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°	508.5	32.2
0°-40°	808.0	51.2
0°-60°	1335.5	84.6
0°-90°	1578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	682	681	679	675	673	65
15°	642	644	642	639	635	181
25°	570	575	578	573	568	261
35°	459	465	486	489	487	287
45°	355	361	373	390	392	274
55°	249	253	265	280	288	222
65°	146	150	159	170	180	145
75°	58	62	66	69	73	64
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°	682.4	682.4	682.4	682.4	682.4
2.5°	684.3	684.5	683.0	678.8	676.2
5°	681.7	681.4	678.8	675.1	673.0
7.5°	674.1	674.6	673.8	668.5	665.7
10°	666.7	667.0	664.9	660.7	657.3
12.5°	657.3	657.0	654.1	652.0	646.5
15°	642.3	643.9	642.3	639.4	635.0
17.5°	627.9	627.9	629.0	624.0	620.6
20°	611.7	612.4	612.4	608.5	604.6
22.5°	592.8	595.1	595.9	591.7	587.0
25°	570.5	575.0	577.6	573.4	568.4
27.5°	543.5	550.3	558.2	555.0	549.5
30°	513.3	523.3	536.4	533.8	529.9
32.5°	484.8	494.7	512.8	511.8	509.7
35°	458.8	465.1	486.3	489.0	487.1
37.5°	434.2	439.9	459.9	465.9	464.3
40°	408.2	414.5	430.2	441.0	441.5
42.5°	382.5	388.5	401.4	416.9	416.9
45°	355.2	361.3	373.1	390.1	392.2
47.5°	328.5	334.8	346.3	363.4	366.8
50°	302.3	308.1	319.6	336.1	341.4
52.5°	275.0	281.3	292.6	307.8	315.4
55°	248.8	253.0	265.3	280.0	288.1
57.5°	221.5	225.5	239.4	252.0	260.3
60°	195.3	200.3	211.1	223.9	233.6
62.5°	170.2	175.4	184.6	195.8	206.9
65°	145.8	149.7	158.6	169.9	179.6
67.5°	122.2	125.6	134.5	142.4	152.6
70°	98.3	102.8	109.3	116.9	123.5
72.5°	79.2	81.0	86.5	92.0	98.8
75°	58.5	61.6	66.1	69.2	73.1
77.5°	41.9	43.8	46.4	49.0	52.7
80°	28.1	28.8	31.2	31.7	34.6
82.5°	17.0	17.6	18.1	18.4	19.4
85°	9.2	9.2	9.2	8.7	8.7
87.5°	5.2	5.2	4.5	3.7	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)