

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: P553865

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-81-88-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: P553865
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-LD4-1HI-30-UNV-81-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

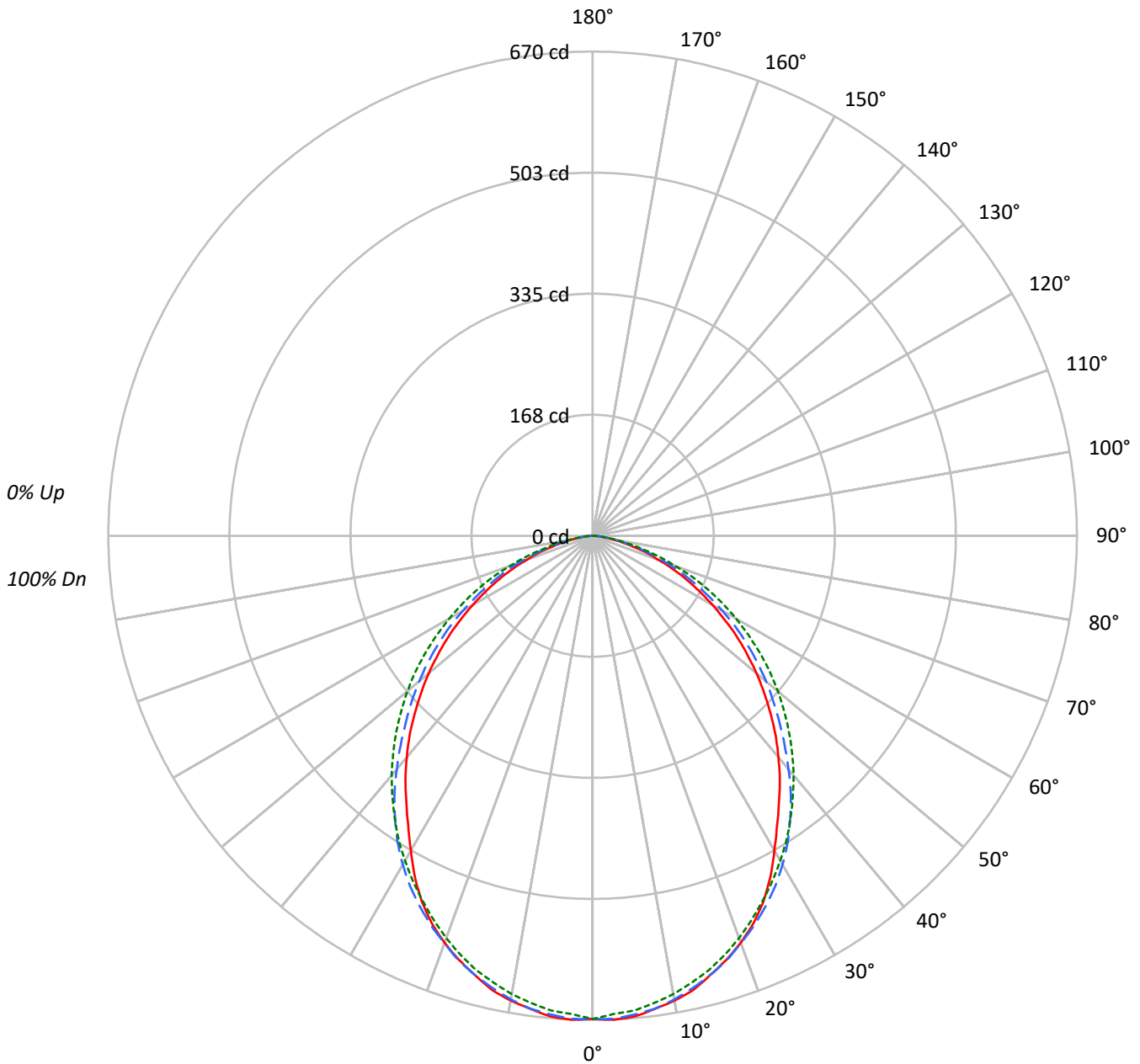
Lumens per Lamp: N/A
Luminaire Lumens: 1546.0 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3598	3598	3598
5°	3608	3593	3562
10°	3570	3560	3519
15°	3506	3506	3466
20°	3432	3436	3392
25°	3319	3361	3307
30°	3125	3266	3226
35°	2953	3131	3135
40°	2810	2961	3039
45°	2649	2782	2925
50°	2480	2622	2800
55°	2288	2439	2649
60°	2060	2226	2464
65°	1819	1979	2240
70°	1515	1685	1904
75°	1192	1345	1491
80°	852	948	1051
85°	556	556	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	4.1
10°-20°	176.8	11.4
20°-30°	258.4	16.7
30°-40°	293.3	19.0
40°-50°	283.2	18.3
50°-60°	233.6	15.1
60°-70°	155.6	10.1
70°-80°	69.6	4.5
80°-90°	12.5	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°	498.2	32.2
0°-40°	791.6	51.2
0°-60°	1308.4	84.6
0°-90°	1546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1546.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	669	669	669	669	669	
5°	668	668	665	661	659	63
15°	629	631	629	626	622	177
25°	559	563	566	562	557	256
35°	450	456	476	479	477	282
45°	348	354	366	382	384	269
55°	244	248	260	274	282	218
65°	143	147	155	166	176	142
75°	57	60	65	68	72	63
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	668.6	668.6	668.6	668.6	668.6
2.5°	670.4	670.7	669.1	665.0	662.4
5°	667.8	667.6	665.0	661.4	659.4
7.5°	660.4	660.9	660.1	655.0	652.2
10°	653.2	653.5	651.4	647.3	643.9
12.5°	643.9	643.7	640.9	638.8	633.4
15°	629.3	630.8	629.3	626.5	622.1
17.5°	615.2	615.2	616.2	611.3	608.0
20°	599.3	600.0	600.0	596.2	592.3
22.5°	580.8	583.1	583.8	579.7	575.1
25°	558.9	563.3	565.9	561.8	556.9
27.5°	532.5	539.1	546.9	543.8	538.4
30°	502.9	512.7	525.5	523.0	519.1
32.5°	474.9	484.7	502.4	501.4	499.3
35°	449.5	455.7	476.5	479.0	477.2
37.5°	425.4	431.0	450.5	456.4	454.9
40°	399.9	406.1	421.5	432.0	432.6
42.5°	374.8	380.7	393.3	408.4	408.4
45°	348.0	354.0	365.5	382.2	384.3
47.5°	321.8	328.0	339.3	356.0	359.3
50°	296.2	301.8	313.1	329.3	334.4
52.5°	269.4	275.6	286.7	301.6	309.0
55°	243.8	247.9	259.9	274.3	282.3
57.5°	217.0	220.9	234.5	246.8	255.1
60°	191.4	196.2	206.8	219.4	228.9
62.5°	166.7	171.8	180.8	191.9	202.7
65°	142.8	146.7	155.4	166.4	175.9
67.5°	119.7	123.0	131.8	139.5	149.5
70°	96.3	100.7	107.1	114.6	121.0
72.5°	77.6	79.4	84.8	90.2	96.8
75°	57.3	60.4	64.7	67.8	71.7
77.5°	41.1	42.9	45.5	48.0	51.6
80°	27.5	28.3	30.6	31.1	33.9
82.5°	16.7	17.2	17.7	18.0	19.0
85°	9.0	9.0	9.0	8.5	8.5
87.5°	5.1	5.1	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)