

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: P554960

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-82-84-EDD-90**

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: P554960
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-LD4-2LO-35-UNV-82-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

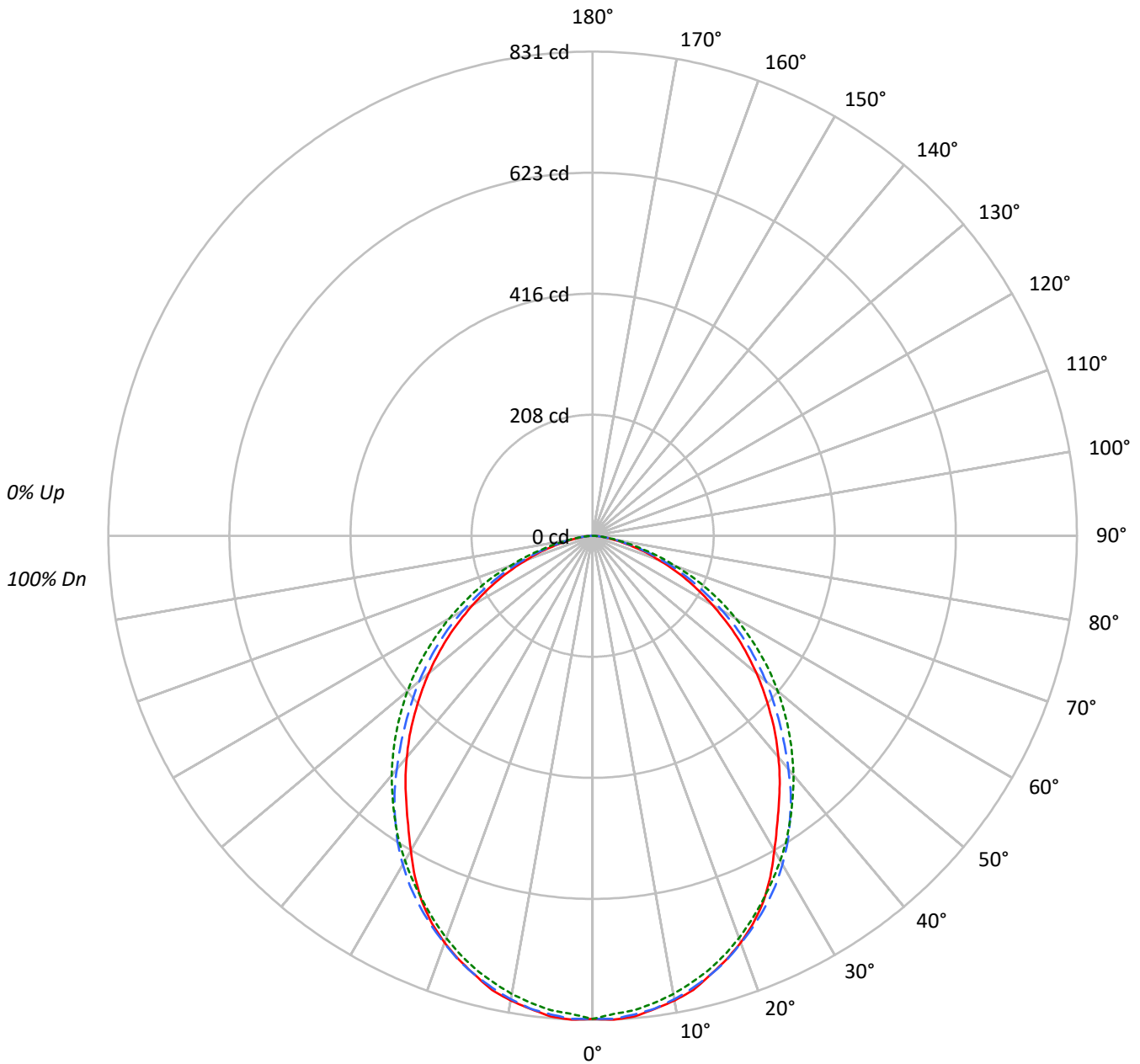
Lumens per Lamp: N/A
Luminaire Lumens: 1917.0 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	4462	4462	4462
5°	4474	4455	4417
10°	4426	4414	4364
15°	4348	4348	4298
20°	4256	4261	4207
25°	4116	4167	4100
30°	3875	4049	4000
35°	3662	3882	3888
40°	3484	3672	3769
45°	3285	3449	3627
50°	3075	3251	3472
55°	2837	3024	3284
60°	2554	2760	3055
65°	2255	2454	2779
70°	1879	2090	2360
75°	1476	1670	1849
80°	1057	1175	1302
85°	685	685	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	4.1
10°-20°	219.3	11.4
20°-30°	320.5	16.7
30°-40°	363.7	19.0
40°-50°	351.1	18.3
50°-60°	289.7	15.1
60°-70°	192.9	10.1
70°-80°	86.3	4.5
80°-90°	15.4	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°	617.8	32.2
0°-40°	981.5	51.2
0°-60°	1622.3	84.6
0°-90°	1917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	829	829	829	829	829	
5°	828	828	825	820	818	78
15°	780	782	780	777	771	220
25°	693	698	702	697	690	317
35°	557	565	591	594	592	349
45°	432	439	453	474	476	333
55°	302	307	322	340	350	270
65°	177	182	193	206	218	176
75°	71	75	80	84	89	78
85°	11	11	11	10	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	829.1	829.1	829.1	829.1	829.1
2.5°	831.3	831.6	829.7	824.6	821.4
5°	828.1	827.8	824.6	820.1	817.6
7.5°	818.9	819.5	818.5	812.2	808.7
10°	809.9	810.3	807.7	802.6	798.5
12.5°	798.5	798.2	794.7	792.1	785.4
15°	780.3	782.2	780.3	776.8	771.4
17.5°	762.8	762.8	764.1	758.0	753.9
20°	743.1	744.0	744.0	739.2	734.5
22.5°	720.1	723.0	723.9	718.9	713.1
25°	693.1	698.5	701.7	696.6	690.5
27.5°	660.2	668.5	678.1	674.3	667.6
30°	623.6	635.7	651.6	648.5	643.7
32.5°	588.9	601.0	623.0	621.7	619.2
35°	557.4	565.0	590.8	594.0	591.8
37.5°	527.4	534.4	558.6	566.0	564.1
40°	495.9	503.5	522.7	535.7	536.4
42.5°	464.7	472.0	487.6	506.4	506.4
45°	431.6	438.9	453.2	473.9	476.5
47.5°	399.1	406.7	420.7	441.4	445.6
50°	367.2	374.2	388.3	408.3	414.7
52.5°	334.1	341.7	355.4	373.9	383.2
55°	302.3	307.4	322.3	340.2	350.0
57.5°	269.1	273.9	290.8	306.1	316.3
60°	237.3	243.3	256.4	272.0	283.8
62.5°	206.7	213.1	224.2	237.9	251.3
65°	177.1	181.9	192.7	206.4	218.2
67.5°	148.4	152.6	163.4	172.9	185.4
70°	119.4	124.9	132.8	142.1	150.0
72.5°	96.2	98.4	105.1	111.8	120.1
75°	71.0	74.8	80.3	84.1	88.9
77.5°	51.0	53.2	56.4	59.6	64.0
80°	34.1	35.0	37.9	38.5	42.0
82.5°	20.7	21.3	22.0	22.3	23.6
85°	11.1	11.1	11.1	10.5	10.5
87.5°	6.4	6.4	5.4	4.5	3.2
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)