

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: P553904

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-80-84-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: P553904
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-35-UNV-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC 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

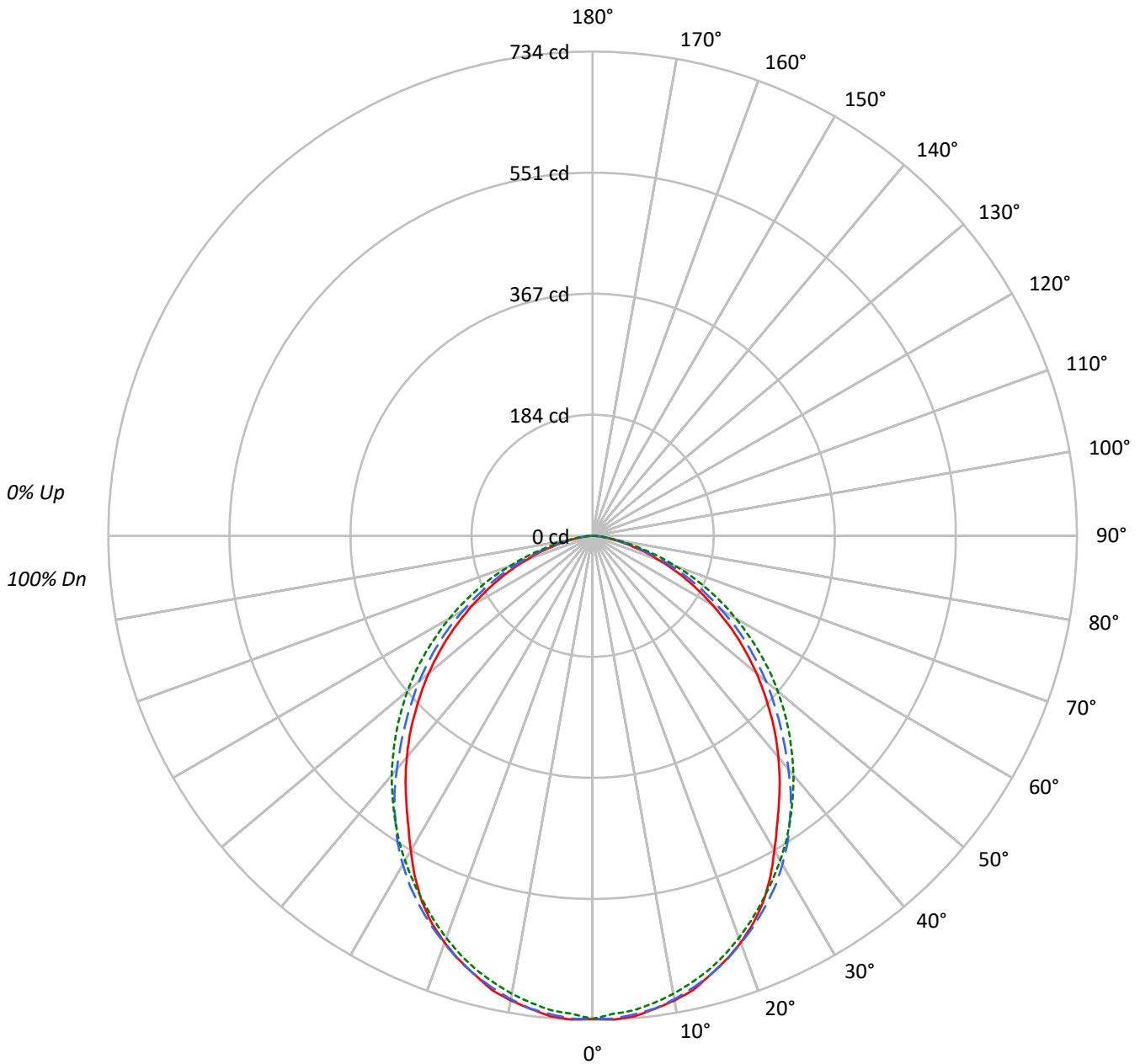
Lumens per Lamp: N/A
Luminaire Lumens: 1693.0 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (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°	3941	3941	3941
5°	3951	3934	3901
10°	3909	3898	3854
15°	3840	3840	3796
20°	3758	3763	3715
25°	3635	3680	3621
30°	3423	3576	3533
35°	3234	3428	3434
40°	3077	3243	3328
45°	2901	3047	3203
50°	2715	2871	3066
55°	2504	2671	2900
60°	2256	2437	2697
65°	1992	2167	2454
70°	1660	1846	2085
75°	1304	1474	1632
80°	933	1038	1150
85°	605	605	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	4.1
10°-20°	193.7	11.4
20°-30°	283.0	16.7
30°-40°	321.2	19.0
40°-50°	310.1	18.3
50°-60°	255.8	15.1
60°-70°	170.4	10.1
70°-80°	76.2	4.5
80°-90°	13.6	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°	545.6	32.2
0°-40°	866.9	51.2
0°-60°	1432.8	84.6
0°-90°	1693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	731	731	728	724	722	69
15°	689	691	689	686	681	194
25°	612	617	620	615	610	280
35°	492	499	522	525	523	308
45°	381	388	400	418	421	294
55°	267	271	285	300	309	238
65°	156	161	170	182	193	155
75°	63	66	71	74	78	69
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	732.2	732.2	732.2	732.2	732.2
2.5°	734.1	734.4	732.7	728.2	725.4
5°	731.3	731.1	728.2	724.3	722.1
7.5°	723.2	723.7	722.9	717.3	714.2
10°	715.3	715.6	713.3	708.8	705.2
12.5°	705.2	704.9	701.8	699.5	693.6
15°	689.1	690.8	689.1	686.0	681.3
17.5°	673.7	673.7	674.8	669.5	665.8
20°	656.2	657.1	657.1	652.9	648.6
22.5°	636.0	638.5	639.4	634.9	629.8
25°	612.1	616.9	619.7	615.2	609.8
27.5°	583.1	590.4	598.9	595.5	589.6
30°	550.8	561.4	575.5	572.7	568.5
32.5°	520.1	530.8	550.2	549.1	546.8
35°	492.2	499.0	521.8	524.6	522.6
37.5°	465.8	472.0	493.4	499.8	498.2
40°	438.0	444.7	461.6	473.1	473.7
42.5°	410.4	416.9	430.6	447.2	447.2
45°	381.1	387.6	400.3	418.5	420.8
47.5°	352.4	359.2	371.6	389.9	393.5
50°	324.3	330.5	342.9	360.6	366.2
52.5°	295.1	301.8	313.9	330.2	338.4
55°	266.9	271.4	284.7	300.4	309.1
57.5°	237.7	241.9	256.8	270.3	279.3
60°	209.6	214.9	226.4	240.2	250.6
62.5°	182.6	188.2	198.0	210.1	221.9
65°	156.4	160.6	170.2	182.3	192.7
67.5°	131.1	134.7	144.3	152.7	163.7
70°	105.5	110.3	117.3	125.5	132.5
72.5°	84.9	86.9	92.8	98.7	106.0
75°	62.7	66.1	70.9	74.3	78.5
77.5°	45.0	47.0	49.8	52.6	56.5
80°	30.1	30.9	33.5	34.0	37.1
82.5°	18.3	18.8	19.4	19.7	20.8
85°	9.8	9.8	9.8	9.3	9.3
87.5°	5.6	5.6	4.8	3.9	2.8
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)