

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: P554493

Luminaire Tested: **FUSL-12-2-LD4-1STD-40-UNV-80-96-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: P554493
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-40-UNV-80-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

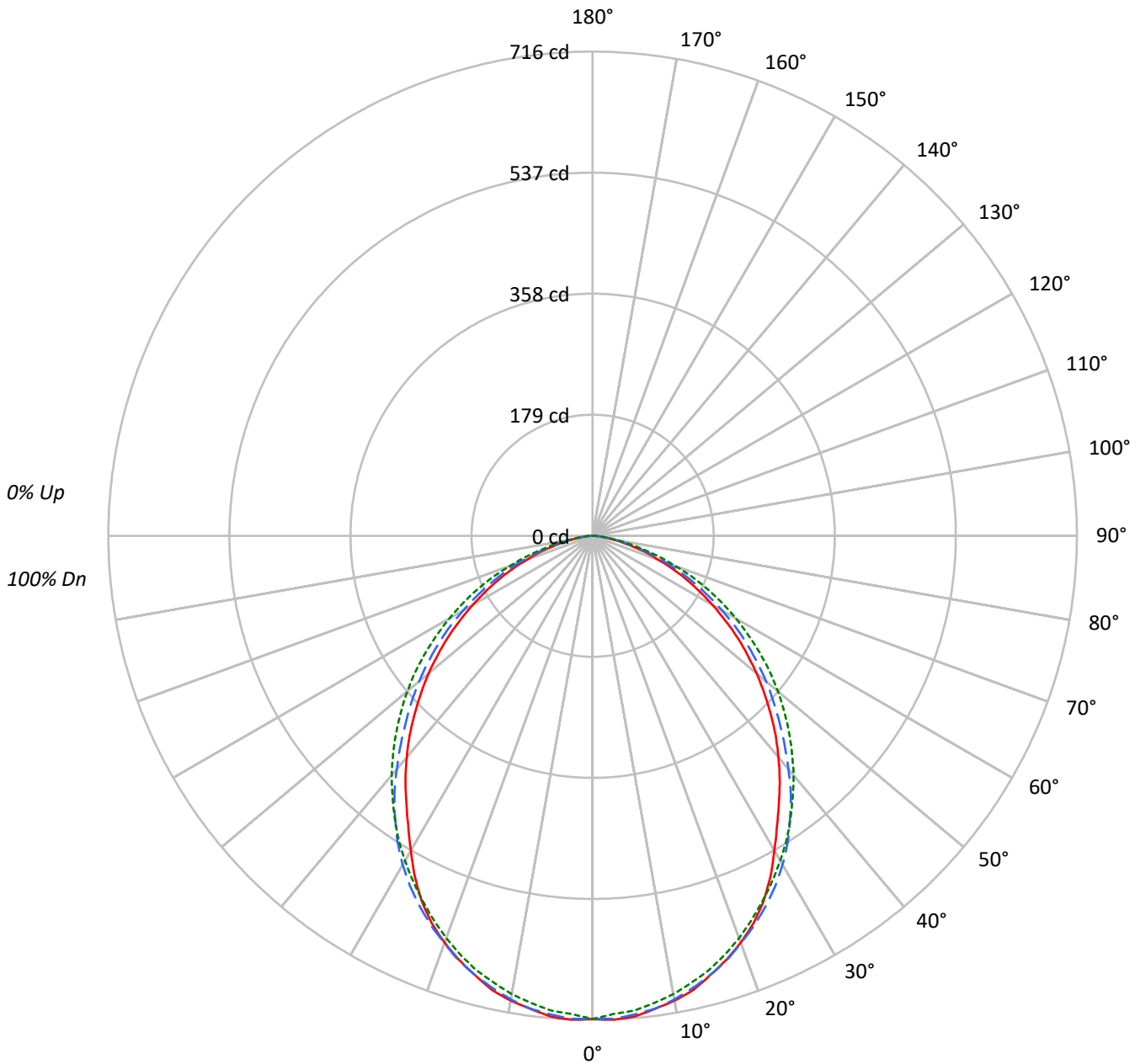
Lumens per Lamp: N/A
Luminaire Lumens: 1652.0 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (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									
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°	3845	3845	3845
5°	3855	3839	3807
10°	3815	3804	3760
15°	3747	3747	3704
20°	3667	3672	3625
25°	3546	3591	3534
30°	3340	3490	3447
35°	3156	3345	3351
40°	3003	3164	3247
45°	2831	2973	3125
50°	2650	2802	2992
55°	2444	2607	2830
60°	2201	2378	2633
65°	1943	2115	2394
70°	1619	1802	2035
75°	1273	1439	1593
80°	911	1013	1122
85°	593	593	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.3	4.1
10°-20°	189.0	11.4
20°-30°	276.2	16.7
30°-40°	313.5	19.0
40°-50°	302.6	18.3
50°-60°	249.6	15.1
60°-70°	166.2	10.1
70°-80°	74.4	4.5
80°-90°	13.3	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°	532.4	32.2
0°-40°	845.9	51.2
0°-60°	1398.1	84.6
0°-90°	1652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	714	713	711	707	705	68
15°	672	674	672	669	665	190
25°	597	602	605	600	595	274
35°	480	487	509	512	510	301
45°	372	378	391	408	411	287
55°	260	265	278	293	302	232
65°	153	157	166	178	188	151
75°	61	64	69	72	77	67
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°	714.4	714.4	714.4	714.4	714.4
2.5°	716.4	716.6	715.0	710.6	707.9
5°	713.6	713.3	710.6	706.8	704.6
7.5°	705.7	706.2	705.4	699.9	696.9
10°	698.0	698.3	696.1	691.7	688.1
12.5°	688.1	687.8	684.8	682.6	676.8
15°	672.5	674.1	672.5	669.4	664.8
17.5°	657.4	657.4	658.5	653.2	649.7
20°	640.3	641.2	641.2	637.0	632.9
22.5°	620.6	623.0	623.9	619.5	614.5
25°	597.2	601.9	604.7	600.3	595.1
27.5°	569.0	576.1	584.3	581.1	575.3
30°	537.4	547.8	561.6	558.8	554.7
32.5°	507.5	517.9	536.9	535.8	533.6
35°	480.3	486.9	509.1	511.9	510.0
37.5°	454.5	460.6	481.4	487.7	486.1
40°	427.4	433.9	450.4	461.7	462.2
42.5°	400.5	406.8	420.2	436.4	436.4
45°	371.9	378.2	390.6	408.4	410.6
47.5°	343.9	350.5	362.6	380.4	384.0
50°	316.5	322.5	334.6	351.9	357.4
52.5°	287.9	294.5	306.3	322.2	330.2
55°	260.5	264.9	277.8	293.1	301.6
57.5°	231.9	236.0	250.6	263.8	272.5
60°	204.5	209.7	220.9	234.4	244.6
62.5°	178.1	183.6	193.2	205.0	216.6
65°	152.6	156.7	166.1	177.9	188.0
67.5°	127.9	131.5	140.8	149.0	159.7
70°	102.9	107.6	114.5	122.4	129.3
72.5°	82.9	84.8	90.6	96.3	103.5
75°	61.2	64.5	69.2	72.5	76.6
77.5°	43.9	45.8	48.6	51.3	55.2
80°	29.4	30.2	32.7	33.2	36.2
82.5°	17.8	18.4	18.9	19.2	20.3
85°	9.6	9.6	9.6	9.1	9.1
87.5°	5.5	5.5	4.7	3.8	2.7
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)