

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: P553900

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-93-96-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: P553900
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-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

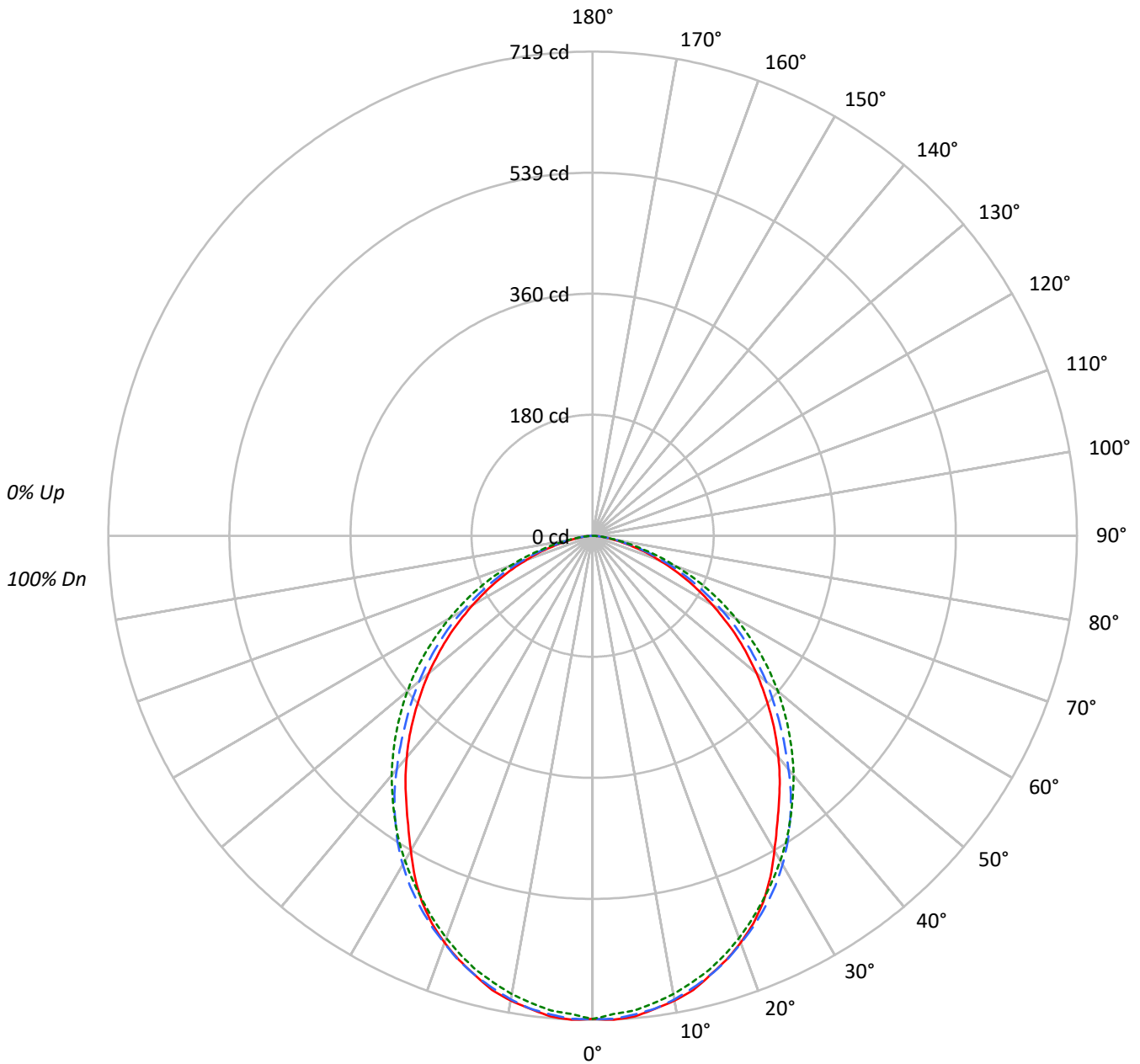
Lumens per Lamp: N/A
Luminaire Lumens: 1659.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	3862	3862	3862
5°	3871	3855	3823
10°	3830	3820	3776
15°	3763	3763	3720
20°	3683	3688	3640
25°	3562	3606	3549
30°	3354	3504	3462
35°	3169	3359	3365
40°	3015	3178	3261
45°	2843	2985	3138
50°	2661	2813	3005
55°	2455	2617	2842
60°	2210	2389	2644
65°	1952	2124	2404
70°	1627	1808	2043
75°	1279	1445	1599
80°	914	1017	1128
85°	593	593	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	4.1
10°-20°	189.8	11.4
20°-30°	277.3	16.7
30°-40°	314.8	19.0
40°-50°	303.9	18.3
50°-60°	250.7	15.1
60°-70°	166.9	10.1
70°-80°	74.7	4.5
80°-90°	13.4	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°	534.6	32.2
0°-40°	849.4	51.2
0°-60°	1404.0	84.6
0°-90°	1659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	718	718	718	718	718	
5°	717	716	714	710	708	68
15°	675	677	675	672	668	190
25°	600	604	607	603	598	275
35°	482	489	511	514	512	302
45°	374	380	392	410	412	288
55°	262	266	279	294	303	233
65°	153	157	167	179	189	152
75°	62	65	70	73	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°	717.5	717.5	717.5	717.5	717.5
2.5°	719.4	719.7	718.0	713.6	710.9
5°	716.6	716.4	713.6	709.8	707.6
7.5°	708.7	709.2	708.4	702.9	699.8
10°	700.9	701.2	699.0	694.6	691.0
12.5°	691.0	690.7	687.7	685.5	679.7
15°	675.3	677.0	675.3	672.3	667.6
17.5°	660.1	660.1	661.2	656.0	652.4
20°	643.1	643.9	643.9	639.7	635.6
22.5°	623.2	625.7	626.5	622.1	617.1
25°	599.8	604.5	607.2	602.8	597.6
27.5°	571.4	578.6	586.8	583.5	577.7
30°	539.7	550.2	563.9	561.2	557.1
32.5°	509.6	520.1	539.1	538.0	535.8
35°	482.4	489.0	511.3	514.1	512.1
37.5°	456.4	462.5	483.5	489.8	488.1
40°	429.2	435.8	452.3	463.6	464.2
42.5°	402.1	408.5	422.0	438.3	438.3
45°	373.5	379.8	392.2	410.1	412.3
47.5°	345.4	352.0	364.1	382.0	385.6
50°	317.8	323.9	336.0	353.4	358.9
52.5°	289.1	295.8	307.6	323.6	331.6
55°	261.6	266.0	278.9	294.4	302.9
57.5°	232.9	237.0	251.7	264.9	273.7
60°	205.3	210.6	221.9	235.4	245.6
62.5°	178.9	184.4	194.0	205.9	217.5
65°	153.3	157.4	166.8	178.6	188.8
67.5°	128.4	132.0	141.4	149.7	160.4
70°	103.4	108.0	114.9	122.9	129.8
72.5°	83.2	85.2	91.0	96.7	103.9
75°	61.5	64.8	69.5	72.8	76.9
77.5°	44.1	46.0	48.8	51.5	55.4
80°	29.5	30.3	32.8	33.4	36.4
82.5°	17.9	18.5	19.0	19.3	20.4
85°	9.6	9.6	9.6	9.1	9.1
87.5°	5.5	5.5	4.7	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)