

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: P554980

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-93-86-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: P554980
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-93-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

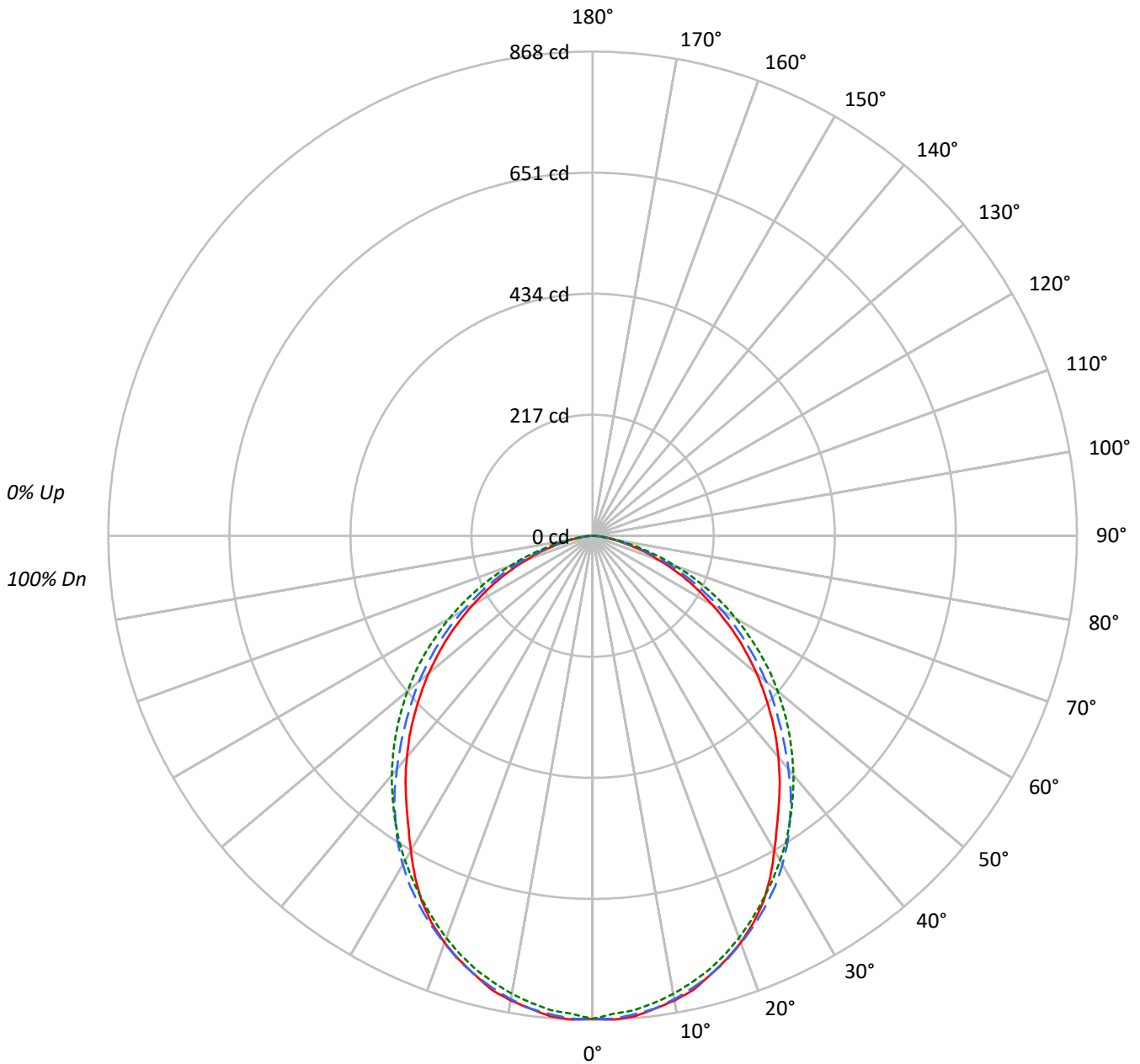
Lumens per Lamp: N/A
Luminaire Lumens: 2002.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	4660	4660	4660
5°	4672	4653	4613
10°	4623	4610	4557
15°	4540	4540	4489
20°	4444	4450	4393
25°	4298	4352	4282
30°	4048	4229	4177
35°	3824	4054	4060
40°	3639	3835	3935
45°	3430	3602	3787
50°	3211	3395	3626
55°	2962	3158	3430
60°	2667	2883	3190
65°	2355	2562	2901
70°	1962	2183	2466
75°	1543	1743	1930
80°	1103	1227	1361
85°	716	716	679



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	4.1
10°-20°	229.0	11.4
20°-30°	334.7	16.7
30°-40°	379.9	19.0
40°-50°	366.7	18.3
50°-60°	302.5	15.1
60°-70°	201.4	10.1
70°-80°	90.2	4.5
80°-90°	16.1	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°	645.2	32.2
0°-40°	1025.1	51.2
0°-60°	1694.3	84.6
0°-90°	2002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	865	864	861	856	854	82
15°	815	817	815	811	806	230
25°	724	729	733	727	721	331
35°	582	590	617	620	618	365
45°	451	458	473	495	498	348
55°	316	321	337	355	366	282
65°	185	190	201	216	228	183
75°	74	78	84	88	93	81
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	865.8	865.8	865.8	865.8	865.8
2.5°	868.1	868.5	866.5	861.2	857.8
5°	864.8	864.5	861.2	856.5	853.8
7.5°	855.2	855.8	854.8	848.2	844.5
10°	845.9	846.2	843.5	838.2	833.9
12.5°	833.9	833.5	829.9	827.2	820.2
15°	814.9	816.9	814.9	811.3	805.6
17.5°	796.6	796.6	798.0	791.6	787.3
20°	776.0	777.0	777.0	772.0	767.0
22.5°	752.1	755.1	756.0	750.7	744.7
25°	723.8	729.4	732.8	727.4	721.1
27.5°	689.5	698.2	708.2	704.2	697.2
30°	651.3	663.9	680.5	677.2	672.2
32.5°	615.0	627.7	650.6	649.3	646.6
35°	582.1	590.1	617.0	620.3	618.0
37.5°	550.8	558.1	583.4	591.1	589.1
40°	517.9	525.9	545.8	559.5	560.1
42.5°	485.3	492.9	509.2	528.9	528.9
45°	450.7	458.4	473.3	494.9	497.6
47.5°	416.8	424.8	439.4	461.0	465.3
50°	383.5	390.8	405.5	426.4	433.1
52.5°	348.9	356.9	371.2	390.5	400.1
55°	315.7	321.0	336.6	355.2	365.6
57.5°	281.1	286.1	303.7	319.6	330.3
60°	247.8	254.1	267.8	284.1	296.4
62.5°	215.9	222.5	234.2	248.5	262.4
65°	184.9	189.9	201.2	215.5	227.8
67.5°	155.0	159.3	170.6	180.6	193.6
70°	124.7	130.4	138.7	148.3	156.7
72.5°	100.5	102.8	109.8	116.8	125.4
75°	74.2	78.2	83.8	87.8	92.8
77.5°	53.2	55.5	58.9	62.2	66.9
80°	35.6	36.6	39.6	40.2	43.9
82.5°	21.6	22.3	23.0	23.3	24.6
85°	11.6	11.6	11.6	11.0	11.0
87.5°	6.7	6.7	5.7	4.7	3.3
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)