

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: P553953

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-93-84-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: P553953
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-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

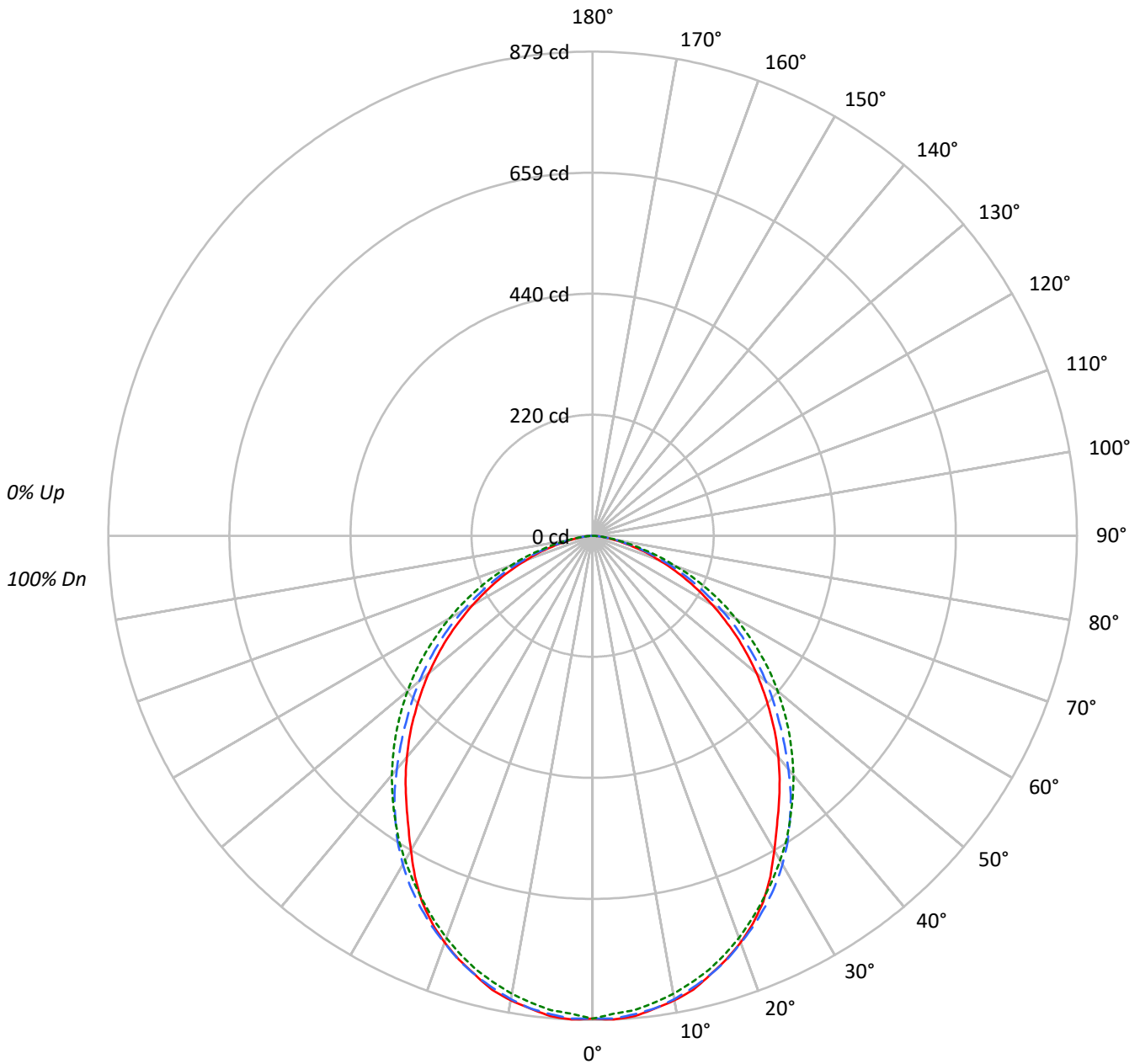
Lumens per Lamp: N/A
Luminaire Lumens: 2027.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4718	4718	4718
5°	4730	4710	4670
10°	4680	4668	4614
15°	4597	4597	4545
20°	4500	4506	4448
25°	4352	4406	4336
30°	4098	4282	4230
35°	3872	4104	4111
40°	3684	3882	3984
45°	3473	3647	3835
50°	3251	3437	3671
55°	2999	3198	3473
60°	2701	2918	3230
65°	2384	2594	2938
70°	1987	2209	2496
75°	1562	1765	1955
80°	1116	1243	1379
85°	729	729	685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	4.1
10°-20°	231.9	11.4
20°-30°	338.8	16.7
30°-40°	384.6	19.0
40°-50°	371.3	18.3
50°-60°	306.3	15.1
60°-70°	204.0	10.1
70°-80°	91.3	4.5
80°-90°	16.3	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°	653.2	32.2
0°-40°	1037.9	51.2
0°-60°	1715.4	84.6
0°-90°	2027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	876	875	872	867	864	83
15°	825	827	825	821	816	233
25°	733	738	742	736	730	336
35°	589	597	625	628	626	369
45°	456	464	479	501	504	352
55°	320	325	341	360	370	285
65°	187	192	204	218	231	186
75°	75	79	85	89	94	82
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°	876.6	876.6	876.6	876.6	876.6
2.5°	879.0	879.3	877.3	871.9	868.5
5°	875.6	875.3	871.9	867.2	864.5
7.5°	865.8	866.5	865.5	858.8	855.1
10°	856.4	856.8	854.1	848.7	844.3
12.5°	844.3	844.0	840.3	837.6	830.5
15°	825.1	827.1	825.1	821.4	815.7
17.5°	806.6	806.6	807.9	801.5	797.1
20°	785.7	786.7	786.7	781.7	776.6
22.5°	761.4	764.5	765.5	760.1	754.0
25°	732.8	738.5	741.9	736.5	730.1
27.5°	698.1	706.9	717.0	713.0	705.9
30°	659.4	672.2	689.0	685.7	680.6
32.5°	622.7	635.5	658.7	657.4	654.7
35°	589.4	597.4	624.7	628.1	625.7
37.5°	557.7	565.1	590.7	598.4	596.4
40°	524.4	532.4	552.6	566.5	567.1
42.5°	491.4	499.1	515.6	535.5	535.5
45°	456.3	464.1	479.2	501.1	503.8
47.5°	422.0	430.1	444.9	466.8	471.1
50°	388.3	395.7	410.5	431.7	438.5
52.5°	353.3	361.4	375.8	395.4	405.1
55°	319.6	325.0	340.8	359.7	370.1
57.5°	284.6	289.6	307.5	323.6	334.4
60°	250.9	257.3	271.1	287.6	300.1
62.5°	218.6	225.3	237.1	251.6	265.7
65°	187.2	192.3	203.7	218.2	230.7
67.5°	156.9	161.3	172.8	182.9	196.0
70°	126.3	132.0	140.4	150.2	158.6
72.5°	101.7	104.1	111.1	118.2	127.0
75°	75.1	79.1	84.9	88.9	94.0
77.5°	53.9	56.2	59.6	63.0	67.7
80°	36.0	37.0	40.1	40.7	44.5
82.5°	21.9	22.6	23.2	23.6	24.9
85°	11.8	11.8	11.8	11.1	11.1
87.5°	6.7	6.7	5.7	4.7	3.4
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)