

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: P553915

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-80-94-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: P553915
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-80-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

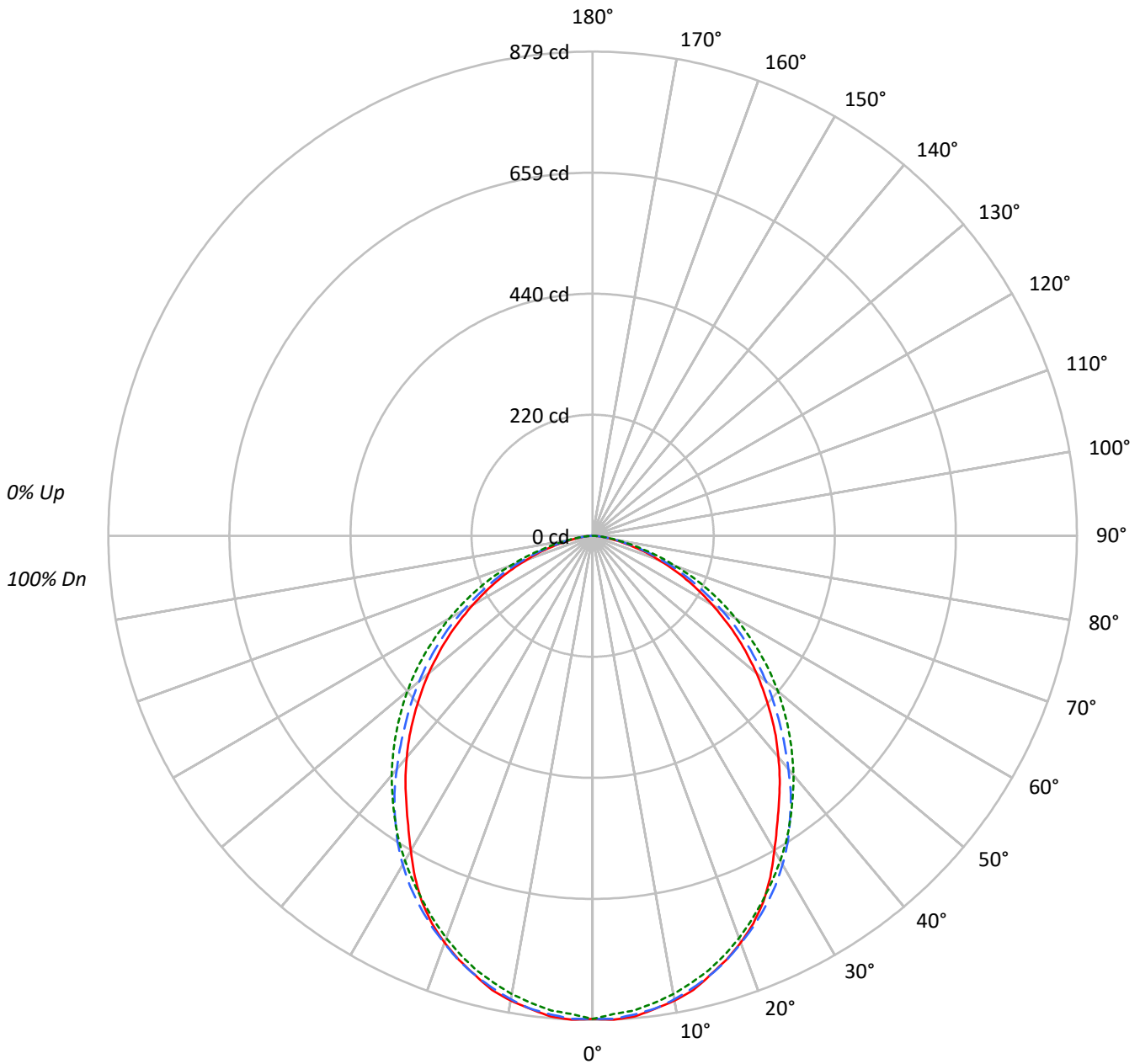
Lumens per Lamp: N/A
Luminaire Lumens: 2028.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4721	4721	4721
5°	4733	4713	4673
10°	4682	4670	4616
15°	4600	4600	4547
20°	4502	4508	4450
25°	4354	4408	4338
30°	4100	4284	4232
35°	3874	4106	4113
40°	3686	3884	3986
45°	3475	3650	3837
50°	3253	3439	3673
55°	3001	3200	3475
60°	2702	2919	3231
65°	2385	2595	2939
70°	1989	2211	2497
75°	1562	1765	1955
80°	1119	1243	1379
85°	729	729	685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	4.1
10°-20°	232.0	11.4
20°-30°	339.0	16.7
30°-40°	384.8	19.0
40°-50°	371.5	18.3
50°-60°	306.4	15.1
60°-70°	204.1	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°	653.6	32.2
0°-40°	1038.4	51.2
0°-60°	1716.3	84.6
0°-90°	2028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	876	876	872	868	865	83
15°	826	828	826	822	816	233
25°	733	739	742	737	730	336
35°	590	598	625	628	626	369
45°	457	464	480	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°	877.1	877.1	877.1	877.1	877.1
2.5°	879.4	879.8	877.7	872.3	869.0
5°	876.0	875.7	872.3	867.6	864.9
7.5°	866.3	866.9	865.9	859.2	855.5
10°	856.8	857.2	854.5	849.1	844.7
12.5°	844.7	844.4	840.7	838.0	830.9
15°	825.5	827.5	825.5	821.8	816.1
17.5°	807.0	807.0	808.3	801.9	797.5
20°	786.1	787.1	787.1	782.0	777.0
22.5°	761.8	764.9	765.9	760.5	754.4
25°	733.2	738.9	742.3	736.9	730.5
27.5°	698.5	707.2	717.3	713.3	706.2
30°	659.7	672.5	689.4	686.0	681.0
32.5°	623.0	635.8	659.1	657.7	655.0
35°	589.6	597.7	625.0	628.4	626.0
37.5°	558.0	565.4	591.0	598.7	596.7
40°	524.6	532.7	552.9	566.7	567.4
42.5°	491.6	499.3	515.9	535.7	535.7
45°	456.6	464.3	479.5	501.4	504.1
47.5°	422.2	430.3	445.1	467.0	471.4
50°	388.5	395.9	410.7	432.0	438.7
52.5°	353.5	361.5	376.0	395.6	405.3
55°	319.8	325.1	341.0	359.9	370.3
57.5°	284.7	289.8	307.6	323.8	334.6
60°	251.0	257.4	271.2	287.7	300.2
62.5°	218.7	225.4	237.2	251.7	265.8
65°	187.3	192.4	203.8	218.3	230.8
67.5°	157.0	161.4	172.9	183.0	196.1
70°	126.4	132.1	140.5	150.3	158.7
72.5°	101.8	104.1	111.2	118.3	127.0
75°	75.1	79.2	84.9	89.0	94.0
77.5°	53.9	56.3	59.6	63.0	67.7
80°	36.1	37.1	40.1	40.8	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)