

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: P553919

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-80-97-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: P553919
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-80-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

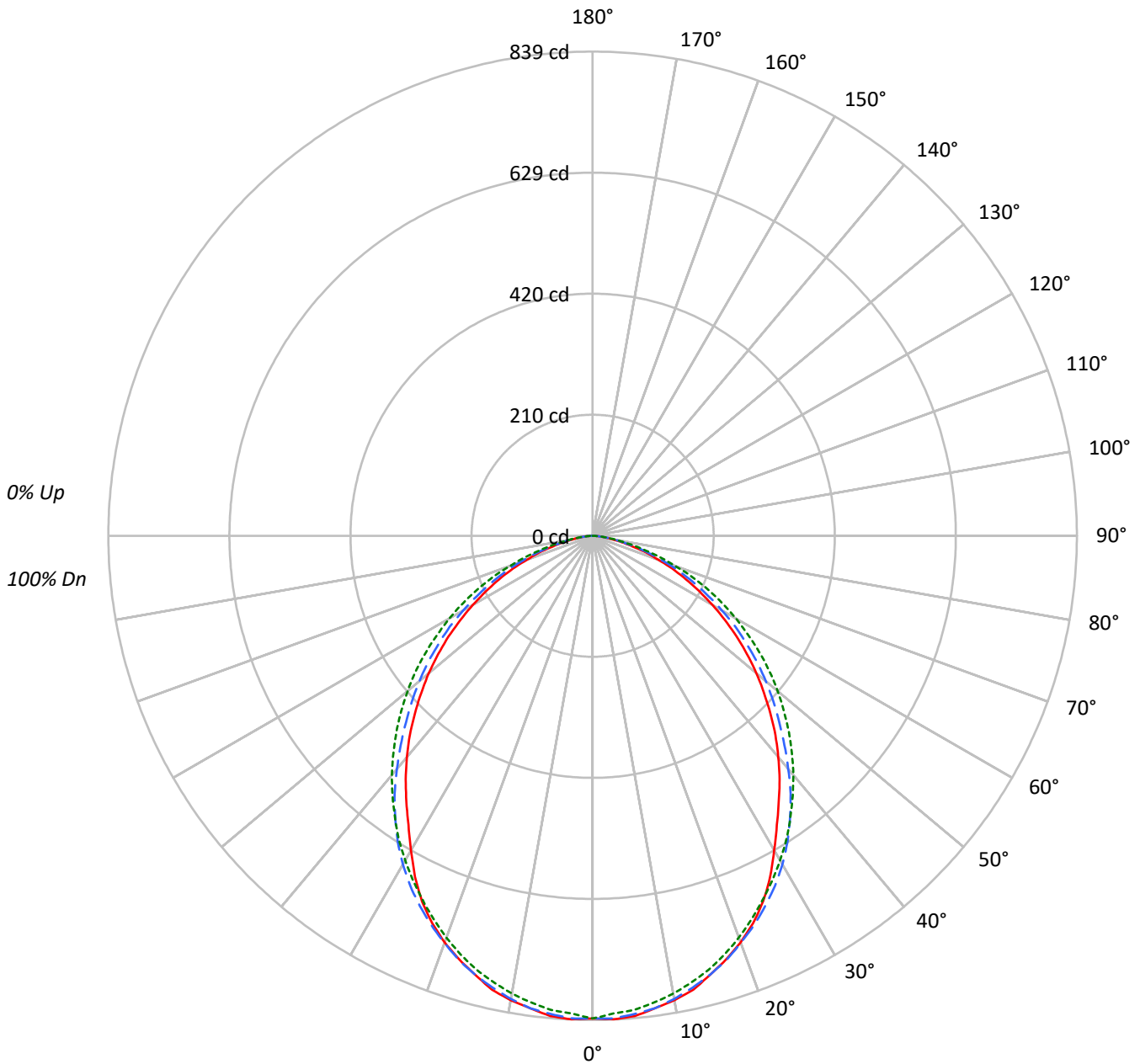
Lumens per Lamp: N/A
Luminaire Lumens: 1934.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4501	4501	4501
5°	4513	4494	4456
10°	4465	4453	4403
15°	4386	4386	4336
20°	4293	4299	4244
25°	4152	4204	4137
30°	3910	4085	4036
35°	3694	3916	3922
40°	3515	3705	3802
45°	3314	3480	3659
50°	3102	3280	3503
55°	2861	3051	3313
60°	2577	2785	3082
65°	2276	2476	2803
70°	1896	2109	2381
75°	1491	1684	1863
80°	1066	1184	1314
85°	692	692	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	4.1
10°-20°	221.2	11.4
20°-30°	323.3	16.7
30°-40°	367.0	19.0
40°-50°	354.3	18.3
50°-60°	292.2	15.1
60°-70°	194.6	10.1
70°-80°	87.1	4.5
80°-90°	15.6	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°	623.3	32.2
0°-40°	990.2	51.2
0°-60°	1636.7	84.6
0°-90°	1934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	835	835	832	827	825	79
15°	787	789	787	784	778	222
25°	699	705	708	703	697	320
35°	562	570	596	599	597	352
45°	435	443	457	478	481	336
55°	305	310	325	343	353	272
65°	179	184	194	208	220	177
75°	72	76	81	85	90	78
85°	11	11	11	11	11	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	836.4	836.4	836.4	836.4	836.4
2.5°	838.7	839.0	837.0	831.9	828.7
5°	835.4	835.1	831.9	827.4	824.8
7.5°	826.1	826.8	825.8	819.4	815.8
10°	817.1	817.4	814.9	809.7	805.6
12.5°	805.6	805.2	801.7	799.1	792.4
15°	787.2	789.2	787.2	783.7	778.2
17.5°	769.6	769.6	770.9	764.7	760.6
20°	749.6	750.6	750.6	745.8	741.0
22.5°	726.5	729.4	730.4	725.2	719.4
25°	699.2	704.7	707.9	702.7	696.6
27.5°	666.1	674.5	684.1	680.2	673.5
30°	629.2	641.4	657.4	654.2	649.4
32.5°	594.1	606.3	628.5	627.2	624.7
35°	562.3	570.0	596.1	599.3	597.0
37.5°	532.1	539.2	563.6	571.0	569.1
40°	500.3	508.0	527.3	540.5	541.1
42.5°	468.8	476.2	491.9	510.9	510.9
45°	435.4	442.8	457.2	478.1	480.7
47.5°	402.6	410.3	424.5	445.4	449.5
50°	370.5	377.6	391.7	411.9	418.4
52.5°	337.1	344.8	358.6	377.2	386.6
55°	304.9	310.1	325.2	343.2	353.1
57.5°	271.5	276.3	293.4	308.8	319.1
60°	239.4	245.5	258.7	274.4	286.3
62.5°	208.5	215.0	226.2	240.0	253.5
65°	178.7	183.5	194.4	208.2	220.1
67.5°	149.7	153.9	164.8	174.5	187.0
70°	120.5	126.0	134.0	143.3	151.3
72.5°	97.0	99.3	106.0	112.8	121.1
75°	71.7	75.5	81.0	84.8	89.6
77.5°	51.4	53.7	56.9	60.1	64.6
80°	34.4	35.3	38.2	38.9	42.4
82.5°	20.9	21.5	22.2	22.5	23.8
85°	11.2	11.2	11.2	10.6	10.6
87.5°	6.4	6.4	5.5	4.5	3.2
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)