

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: P553962

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-93-94-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: P553962
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-93-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

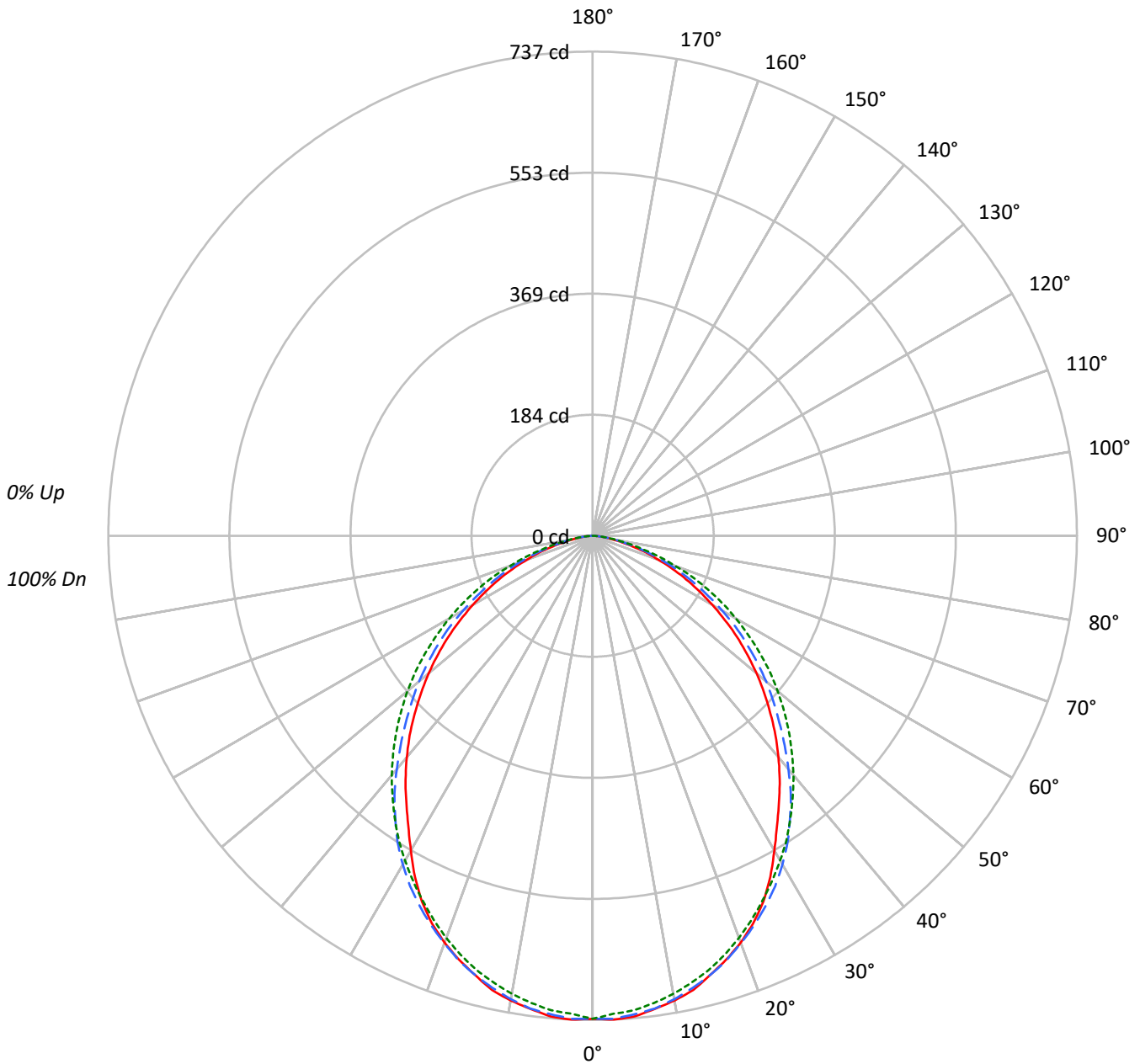
Lumens per Lamp: N/A
Luminaire Lumens: 1700.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3957	3957	3957
5°	3968	3951	3917
10°	3925	3915	3870
15°	3856	3856	3812
20°	3774	3779	3730
25°	3650	3695	3636
30°	3437	3591	3547
35°	3248	3442	3448
40°	3090	3256	3341
45°	2913	3059	3216
50°	2727	2883	3079
55°	2515	2682	2913
60°	2265	2448	2709
65°	1999	2176	2464
70°	1666	1854	2093
75°	1310	1481	1639
80°	936	1041	1156
85°	611	611	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	4.1
10°-20°	194.5	11.4
20°-30°	284.2	16.7
30°-40°	322.6	19.0
40°-50°	311.4	18.3
50°-60°	256.9	15.1
60°-70°	171.1	10.1
70°-80°	76.6	4.5
80°-90°	13.7	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°	547.9	32.2
0°-40°	870.4	51.2
0°-60°	1438.7	84.6
0°-90°	1700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1700.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	734	734	731	727	725	70
15°	692	694	692	689	684	195
25°	615	619	622	618	612	281
35°	494	501	524	527	525	310
45°	383	389	402	420	422	295
55°	268	273	286	302	310	239
65°	157	161	171	183	194	156
75°	63	66	71	75	79	69
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°	735.2	735.2	735.2	735.2	735.2
2.5°	737.2	737.5	735.8	731.3	728.4
5°	734.4	734.1	731.3	727.3	725.0
7.5°	726.2	726.7	725.9	720.2	717.1
10°	718.3	718.5	716.3	711.8	708.1
12.5°	708.1	707.8	704.7	702.4	696.5
15°	692.0	693.7	692.0	688.9	684.1
17.5°	676.5	676.5	677.6	672.2	668.5
20°	658.9	659.8	659.8	655.6	651.3
22.5°	638.6	641.2	642.0	637.5	632.4
25°	614.6	619.4	622.2	617.7	612.3
27.5°	585.5	592.9	601.3	597.9	592.0
30°	553.0	563.8	577.9	575.1	570.8
32.5°	522.2	533.0	552.5	551.3	549.1
35°	494.3	501.1	523.9	526.8	524.8
37.5°	467.7	473.9	495.4	501.9	500.2
40°	439.8	446.5	463.5	475.1	475.6
42.5°	412.1	418.6	432.4	449.1	449.1
45°	382.7	389.2	401.9	420.3	422.5
47.5°	353.9	360.7	373.1	391.5	395.1
50°	325.7	331.9	344.3	362.1	367.7
52.5°	296.3	303.1	315.2	331.6	339.8
55°	268.0	272.6	285.8	301.7	310.4
57.5°	238.7	242.9	257.9	271.4	280.5
60°	210.4	215.8	227.4	241.2	251.7
62.5°	183.3	189.0	198.8	211.0	222.8
65°	157.0	161.3	170.9	183.0	193.5
67.5°	131.6	135.3	144.9	153.4	164.4
70°	105.9	110.7	117.8	126.0	133.0
72.5°	85.3	87.3	93.2	99.1	106.5
75°	63.0	66.4	71.2	74.6	78.8
77.5°	45.2	47.2	50.0	52.8	56.8
80°	30.2	31.1	33.6	34.2	37.3
82.5°	18.4	18.9	19.5	19.8	20.9
85°	9.9	9.9	9.9	9.3	9.3
87.5°	5.6	5.6	4.8	4.0	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)