

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: P554237

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-80-96-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: P554237
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-LD4-1LO-40-UNV-80-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

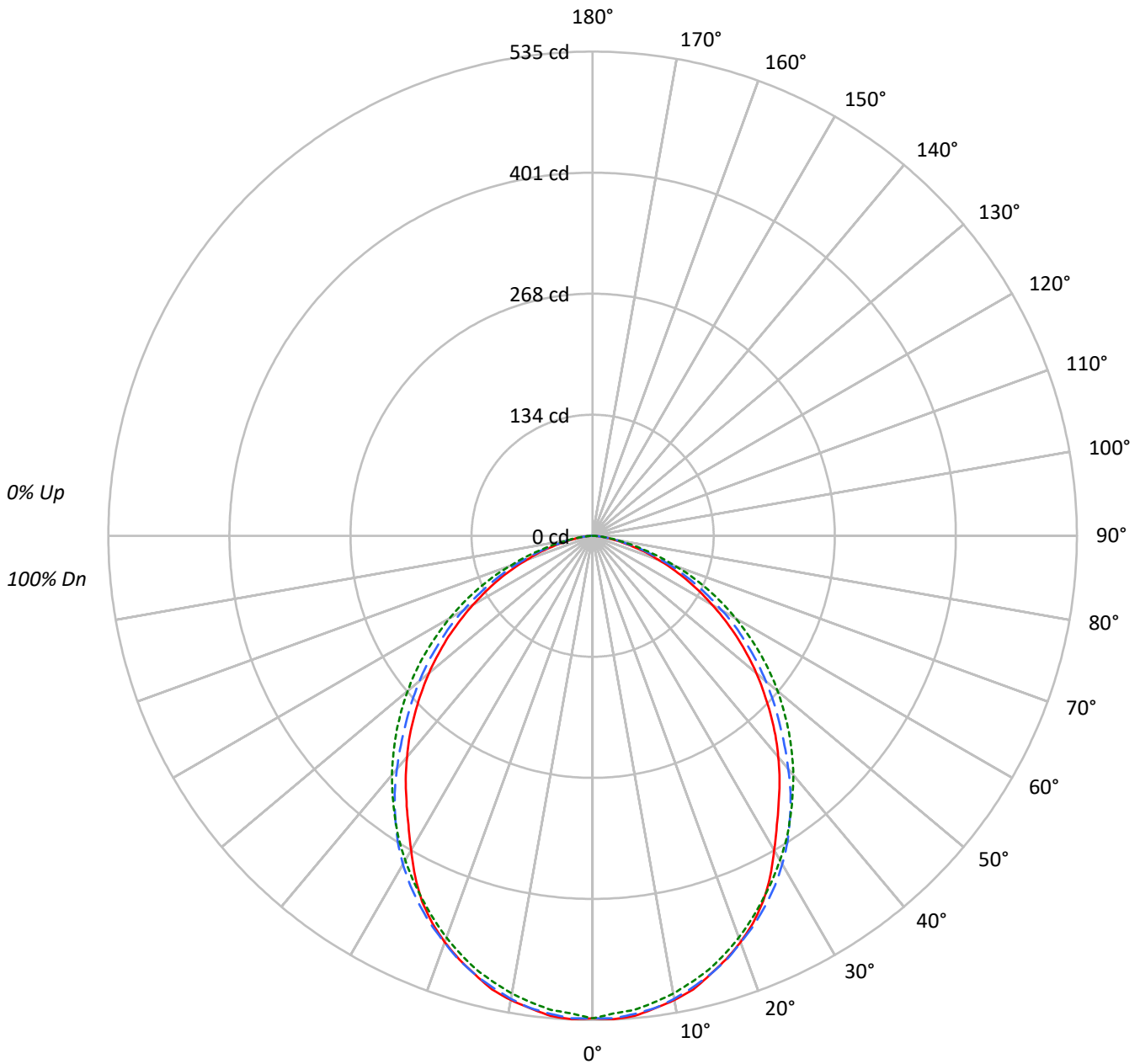
Lumens per Lamp: N/A
Luminaire Lumens: 1233.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	2870	2870	2870
5°	2877	2865	2841
10°	2847	2839	2807
15°	2796	2796	2765
20°	2737	2741	2706
25°	2647	2680	2637
30°	2493	2605	2573
35°	2355	2497	2501
40°	2241	2362	2424
45°	2113	2219	2333
50°	1978	2091	2233
55°	1824	1945	2112
60°	1643	1775	1964
65°	1450	1578	1787
70°	1209	1344	1519
75°	950	1073	1189
80°	679	756	837
85°	445	445	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	4.1
10°-20°	141.0	11.4
20°-30°	206.1	16.7
30°-40°	234.0	19.0
40°-50°	225.8	18.3
50°-60°	186.3	15.1
60°-70°	124.1	10.1
70°-80°	55.5	4.5
80°-90°	9.9	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°	397.4	32.2
0°-40°	631.3	51.2
0°-60°	1043.5	84.6
0°-90°	1233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	533	533	533	533	533	
5°	533	532	530	528	526	50
15°	502	503	502	500	496	141
25°	446	449	451	448	444	204
35°	358	363	380	382	381	225
45°	278	282	292	305	306	214
55°	194	198	207	219	225	174
65°	114	117	124	133	140	113
75°	46	48	52	54	57	50
85°	7	7	7	7	7	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	533.2	533.2	533.2	533.2	533.2
2.5°	534.7	534.9	533.7	530.4	528.3
5°	532.6	532.4	530.4	527.5	525.9
7.5°	526.7	527.1	526.5	522.4	520.1
10°	520.9	521.2	519.5	516.2	513.6
12.5°	513.6	513.4	511.1	509.5	505.2
15°	501.9	503.1	501.9	499.6	496.2
17.5°	490.6	490.6	491.4	487.6	484.9
20°	477.9	478.5	478.5	475.5	472.4
22.5°	463.2	465.0	465.6	462.4	458.7
25°	445.8	449.2	451.3	448.0	444.1
27.5°	424.7	430.0	436.1	433.7	429.4
30°	401.1	408.9	419.1	417.1	414.0
32.5°	378.8	386.6	400.7	399.9	398.2
35°	358.5	363.4	380.0	382.1	380.6
37.5°	339.2	343.7	359.3	364.0	362.8
40°	319.0	323.9	336.2	344.6	345.0
42.5°	298.9	303.6	313.6	325.7	325.7
45°	277.6	282.3	291.5	304.8	306.5
47.5°	256.7	261.6	270.6	283.9	286.6
50°	236.2	240.7	249.7	262.6	266.7
52.5°	214.9	219.8	228.6	240.5	246.4
55°	194.4	197.7	207.3	218.8	225.1
57.5°	173.1	176.2	187.0	196.9	203.4
60°	152.6	156.5	164.9	174.9	182.5
62.5°	133.0	137.0	144.2	153.0	161.6
65°	113.9	117.0	123.9	132.7	140.3
67.5°	95.5	98.1	105.1	111.2	119.2
70°	76.8	80.3	85.4	91.4	96.5
72.5°	61.9	63.3	67.6	71.9	77.2
75°	45.7	48.1	51.6	54.1	57.2
77.5°	32.8	34.2	36.3	38.3	41.2
80°	21.9	22.5	24.4	24.8	27.0
82.5°	13.3	13.7	14.1	14.3	15.2
85°	7.2	7.2	7.2	6.8	6.8
87.5°	4.1	4.1	3.5	2.9	2.0
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)