

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: P554261

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-82-86-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: P554261
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-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

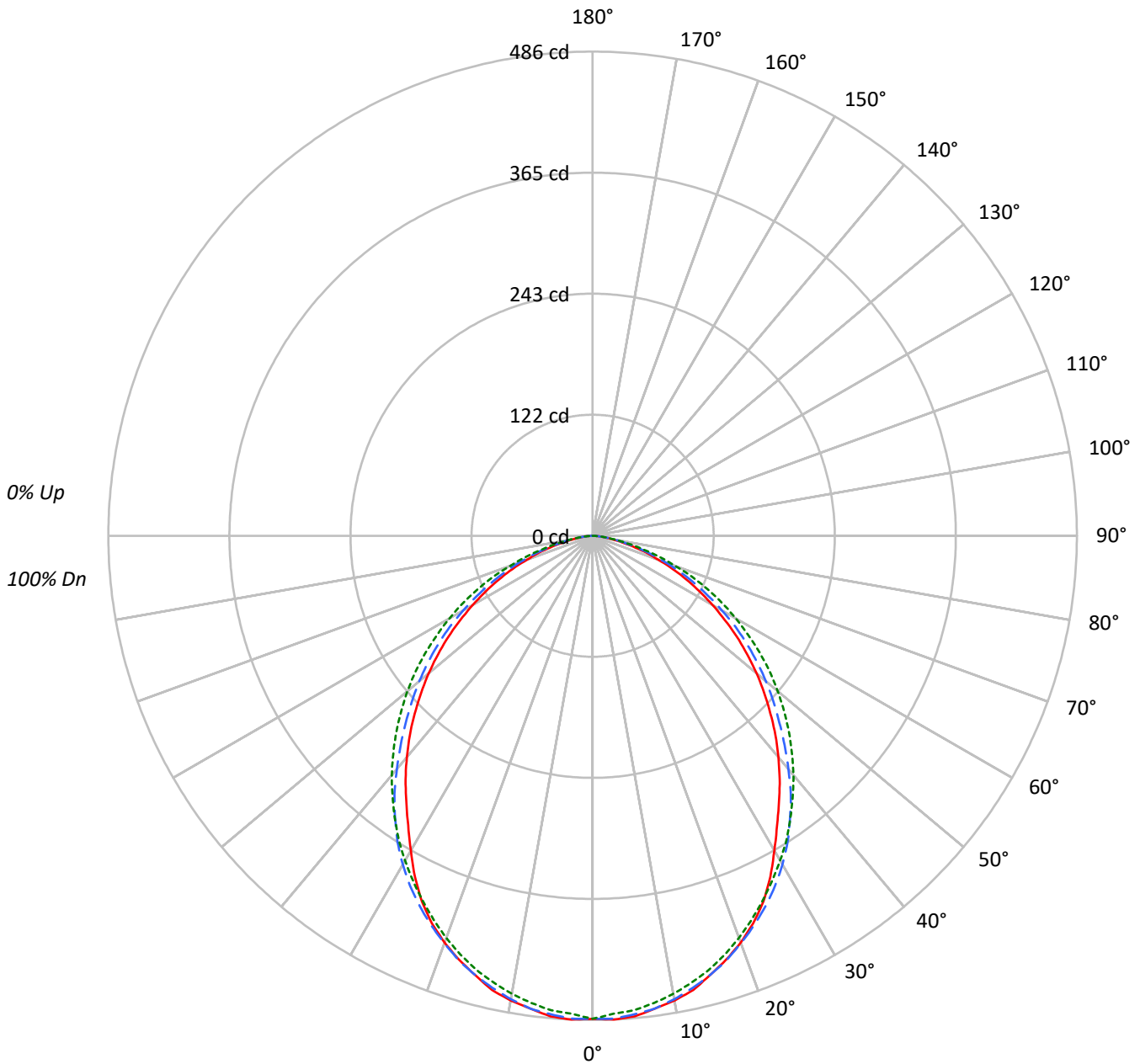
Lumens per Lamp: N/A
Luminaire Lumens: 1121.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (Ain): 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°	2609	2609	2609
5°	2616	2605	2583
10°	2588	2581	2552
15°	2542	2542	2513
20°	2489	2492	2460
25°	2407	2436	2398
30°	2266	2368	2339
35°	2141	2270	2273
40°	2037	2147	2203
45°	1921	2017	2120
50°	1798	1901	2030
55°	1658	1769	1921
60°	1494	1614	1786
65°	1319	1435	1625
70°	1098	1223	1380
75°	863	975	1081
80°	617	688	762
85°	401	401	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	4.1
10°-20°	128.2	11.4
20°-30°	187.4	16.7
30°-40°	212.7	19.0
40°-50°	205.3	18.3
50°-60°	169.4	15.1
60°-70°	112.8	10.1
70°-80°	50.5	4.5
80°-90°	9.0	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°	361.3	32.2
0°-40°	574.0	51.2
0°-60°	948.7	84.6
0°-90°	1121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	485	485	485	485	485	
5°	484	484	482	480	478	46
15°	456	457	456	454	451	129
25°	405	408	410	407	404	186
35°	326	330	346	347	346	204
45°	252	257	265	277	279	195
55°	177	180	188	199	205	158
65°	104	106	113	121	128	103
75°	42	44	47	49	52	45
85°	6	6	6	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	484.8	484.8	484.8	484.8	484.8
2.5°	486.1	486.3	485.2	482.2	480.3
5°	484.2	484.1	482.2	479.6	478.1
7.5°	478.8	479.2	478.7	474.9	472.9
10°	473.6	473.8	472.3	469.3	466.9
12.5°	466.9	466.7	464.7	463.2	459.3
15°	456.3	457.4	456.3	454.3	451.1
17.5°	446.1	446.1	446.8	443.3	440.8
20°	434.5	435.1	435.1	432.3	429.5
22.5°	421.1	422.8	423.3	420.4	417.0
25°	405.3	408.4	410.3	407.3	403.8
27.5°	386.1	390.9	396.5	394.3	390.4
30°	364.7	371.8	381.1	379.2	376.4
32.5°	344.4	351.4	364.3	363.6	362.1
35°	325.9	330.4	345.5	347.4	346.0
37.5°	308.4	312.5	326.7	331.0	329.8
40°	290.0	294.5	305.6	313.3	313.6
42.5°	271.7	276.0	285.1	296.1	296.1
45°	252.4	256.6	265.0	277.1	278.6
47.5°	233.4	237.8	246.0	258.1	260.6
50°	214.7	218.8	227.0	238.8	242.5
52.5°	195.4	199.8	207.9	218.7	224.1
55°	176.7	179.7	188.5	198.9	204.7
57.5°	157.4	160.2	170.0	179.0	184.9
60°	138.8	142.3	149.9	159.1	165.9
62.5°	120.9	124.6	131.1	139.1	146.9
65°	103.6	106.3	112.7	120.7	127.6
67.5°	86.8	89.2	95.5	101.1	108.4
70°	69.8	73.0	77.7	83.1	87.7
72.5°	56.2	57.6	61.5	65.4	70.2
75°	41.5	43.8	46.9	49.2	52.0
77.5°	29.8	31.1	33.0	34.8	37.4
80°	19.9	20.5	22.2	22.5	24.6
82.5°	12.1	12.5	12.9	13.0	13.8
85°	6.5	6.5	6.5	6.1	6.1
87.5°	3.7	3.7	3.2	2.6	1.9
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)