

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: P554129

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-82-84-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: P554129
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-30-UNV-82-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

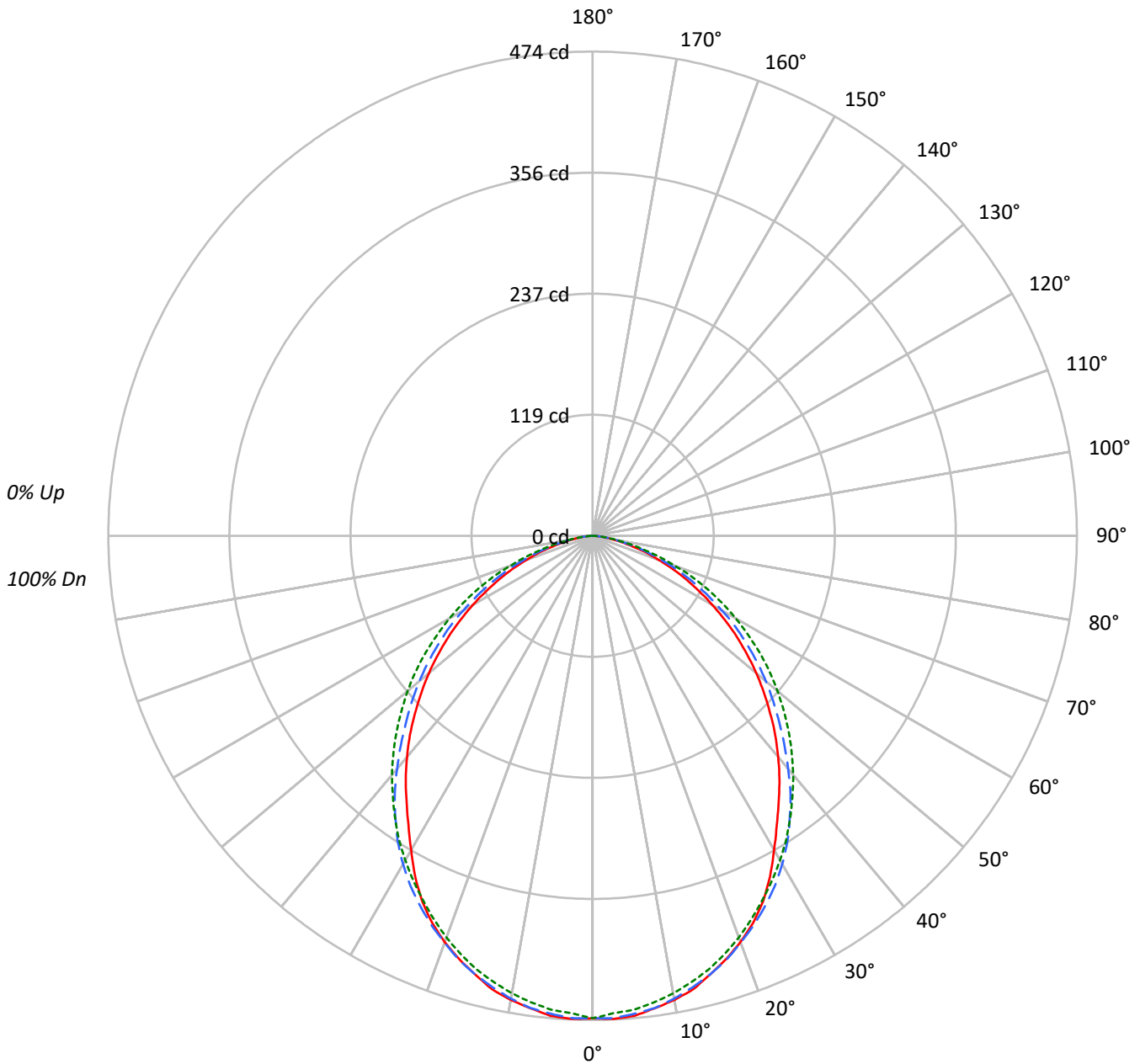
Lumens per Lamp: N/A
Luminaire Lumens: 1092.0 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2542	2542	2542
5°	2548	2538	2516
10°	2522	2514	2485
15°	2477	2477	2448
20°	2424	2427	2396
25°	2344	2374	2336
30°	2207	2307	2279
35°	2086	2212	2215
40°	1985	2092	2146
45°	1871	1965	2066
50°	1752	1852	1978
55°	1616	1723	1871
60°	1455	1573	1741
65°	1285	1398	1583
70°	1070	1191	1345
75°	842	950	1052
80°	601	669	741
85°	395	395	371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	4.1
10°-20°	124.9	11.4
20°-30°	182.5	16.7
30°-40°	207.2	19.0
40°-50°	200.0	18.3
50°-60°	165.0	15.1
60°-70°	109.9	10.1
70°-80°	49.2	4.5
80°-90°	8.8	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°	351.9	32.2
0°-40°	559.1	51.2
0°-60°	924.2	84.6
0°-90°	1092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	472	472	472	472	472	
5°	472	472	470	467	466	45
15°	444	446	444	442	439	125
25°	395	398	400	397	393	181
35°	318	322	337	338	337	199
45°	246	250	258	270	271	190
55°	172	175	184	194	199	154
65°	101	104	110	118	124	100
75°	40	43	46	48	51	44
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°	472.3	472.3	472.3	472.3	472.3
2.5°	473.5	473.7	472.6	469.7	467.9
5°	471.7	471.5	469.7	467.2	465.7
7.5°	466.5	466.8	466.3	462.6	460.7
10°	461.4	461.6	460.1	457.2	454.8
12.5°	454.8	454.7	452.7	451.2	447.4
15°	444.5	445.6	444.5	442.5	439.4
17.5°	434.5	434.5	435.3	431.8	429.4
20°	423.3	423.8	423.8	421.1	418.4
22.5°	410.2	411.8	412.4	409.5	406.2
25°	394.8	397.9	399.7	396.8	393.3
27.5°	376.1	380.8	386.3	384.1	380.3
30°	355.2	362.1	371.2	369.4	366.7
32.5°	335.5	342.4	354.9	354.2	352.7
35°	317.5	321.9	336.6	338.4	337.1
37.5°	300.4	304.4	318.2	322.4	321.3
40°	282.5	286.8	297.7	305.2	305.5
42.5°	264.7	268.9	277.8	288.5	288.5
45°	245.8	250.0	258.2	270.0	271.4
47.5°	227.3	231.7	239.7	251.5	253.8
50°	209.2	213.2	221.2	232.6	236.2
52.5°	190.3	194.7	202.5	213.0	218.3
55°	172.2	175.1	183.6	193.8	199.4
57.5°	153.3	156.0	165.6	174.4	180.2
60°	135.2	138.6	146.1	154.9	161.7
62.5°	117.7	121.4	127.7	135.5	143.1
65°	100.9	103.6	109.8	117.6	124.3
67.5°	84.5	86.9	93.1	98.5	105.6
70°	68.0	71.1	75.7	80.9	85.5
72.5°	54.8	56.1	59.9	63.7	68.4
75°	40.5	42.6	45.7	47.9	50.6
77.5°	29.0	30.3	32.1	33.9	36.5
80°	19.4	20.0	21.6	22.0	23.9
82.5°	11.8	12.2	12.5	12.7	13.4
85°	6.4	6.4	6.4	6.0	6.0
87.5°	3.6	3.6	3.1	2.5	1.8
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)