

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: P554104

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-80-88-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: P554104
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-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

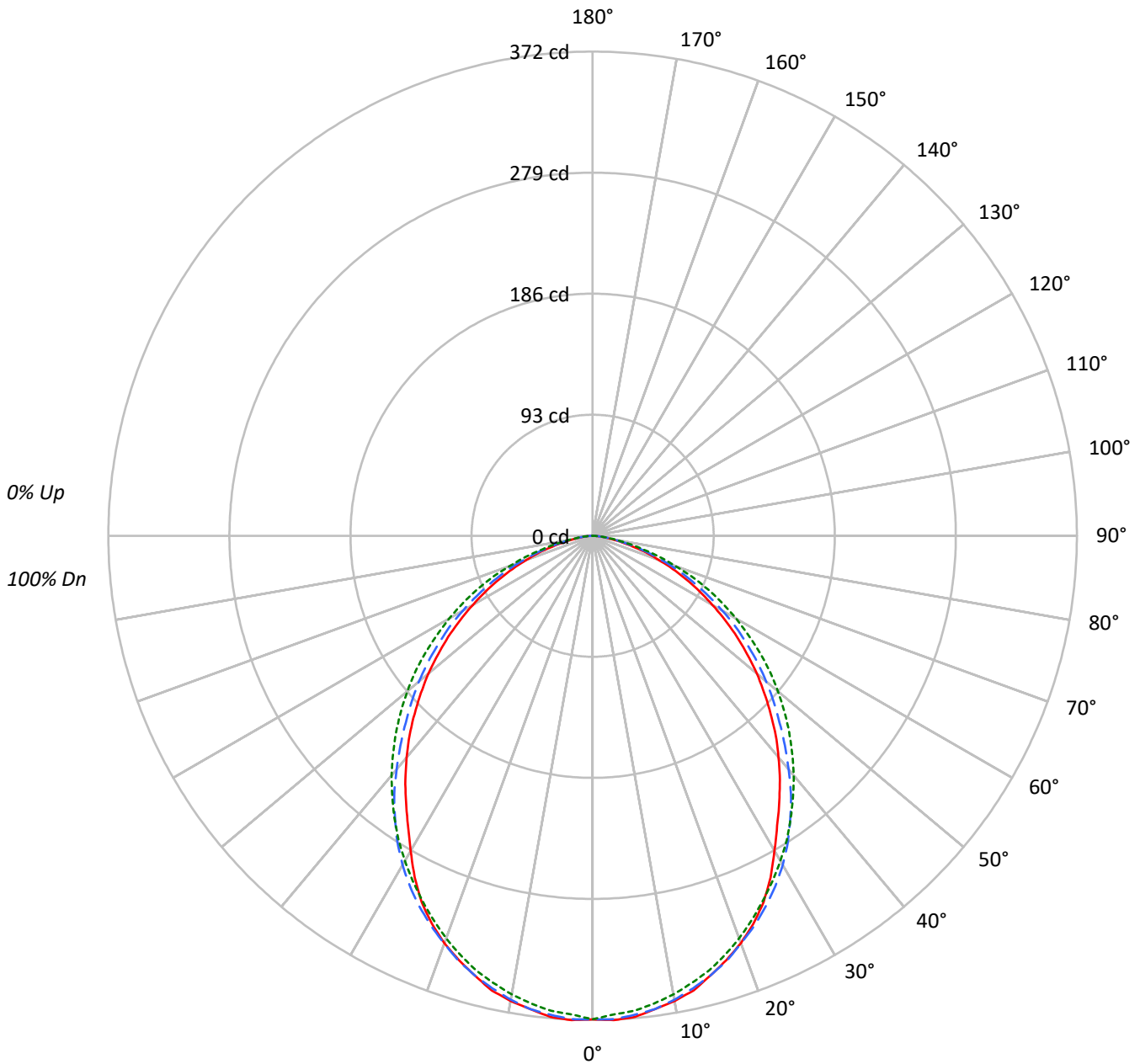
Lumens per Lamp: N/A
Luminaire Lumens: 859.0 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P554104

CATALOG NUMBER: FUSL-12-2-LD4-1LO-30-UNV-80-88-EDD-90

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°	1999	1999	1999
5°	2005	1996	1979
10°	1983	1978	1955
15°	1948	1948	1926
20°	1907	1910	1885
25°	1844	1867	1837
30°	1736	1815	1792
35°	1641	1739	1742
40°	1561	1645	1688
45°	1472	1546	1625
50°	1378	1457	1556
55°	1270	1355	1471
60°	1144	1237	1369
65°	1011	1099	1245
70°	842	936	1057
75°	661	749	828
80°	474	527	583
85°	309	309	290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	4.1
10°-20°	98.3	11.4
20°-30°	143.6	16.7
30°-40°	163.0	19.0
40°-50°	157.3	18.3
50°-60°	129.8	15.1
60°-70°	86.4	10.1
70°-80°	38.7	4.5
80°-90°	6.9	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°	276.8	32.2
0°-40°	439.8	51.2
0°-60°	727.0	84.6
0°-90°	859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	372	372	372	372	372	
5°	371	371	370	368	366	35
15°	350	350	350	348	346	99
25°	311	313	314	312	309	142
35°	250	253	265	266	265	156
45°	193	197	203	212	214	149
55°	135	138	144	152	157	121
65°	79	82	86	92	98	79
75°	32	34	36	38	40	35
85°	5	5	5	5	5	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	371.5	371.5	371.5	371.5	371.5
2.5°	372.5	372.6	371.8	369.5	368.1
5°	371.1	370.9	369.5	367.5	366.4
7.5°	366.9	367.2	366.8	363.9	362.4
10°	362.9	363.1	361.9	359.6	357.8
12.5°	357.8	357.7	356.1	354.9	351.9
15°	349.7	350.5	349.7	348.1	345.7
17.5°	341.8	341.8	342.4	339.7	337.8
20°	333.0	333.4	333.4	331.2	329.1
22.5°	322.7	324.0	324.4	322.1	319.5
25°	310.6	313.0	314.4	312.1	309.4
27.5°	295.9	299.6	303.8	302.1	299.1
30°	279.4	284.9	292.0	290.6	288.4
32.5°	263.9	269.3	279.2	278.6	277.4
35°	249.8	253.2	264.7	266.2	265.2
37.5°	236.3	239.5	250.3	253.6	252.8
40°	222.2	225.6	234.2	240.1	240.3
42.5°	208.2	211.5	218.5	226.9	226.9
45°	193.4	196.7	203.1	212.4	213.5
47.5°	178.8	182.3	188.5	197.8	199.7
50°	164.6	167.7	174.0	183.0	185.8
52.5°	149.7	153.1	159.3	167.6	171.7
55°	135.4	137.7	144.4	152.4	156.8
57.5°	120.6	122.7	130.3	137.2	141.7
60°	106.3	109.0	114.9	121.9	127.2
62.5°	92.6	95.5	100.5	106.6	112.6
65°	79.4	81.5	86.3	92.5	97.8
67.5°	66.5	68.4	73.2	77.5	83.1
70°	53.5	55.9	59.5	63.7	67.2
72.5°	43.1	44.1	47.1	50.1	53.8
75°	31.8	33.5	36.0	37.7	39.8
77.5°	22.8	23.8	25.3	26.7	28.7
80°	15.3	15.7	17.0	17.3	18.8
82.5°	9.3	9.6	9.8	10.0	10.6
85°	5.0	5.0	5.0	4.7	4.7
87.5°	2.9	2.9	2.4	2.0	1.4
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)