

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: P555001

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-80-88-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: P555001
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-LD4-2LO-40-UNV-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

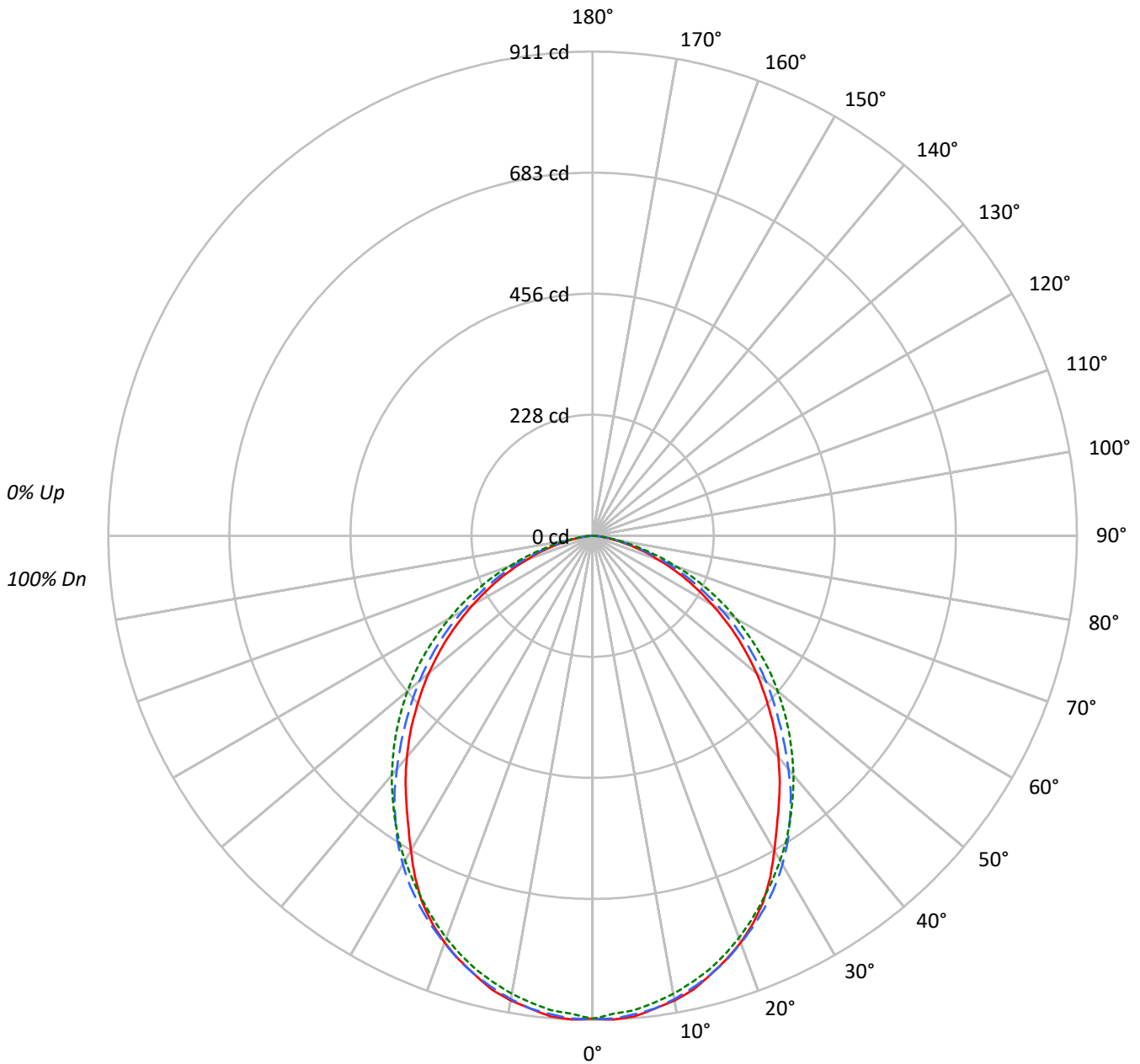
Lumens per Lamp: N/A
Luminaire Lumens: 2101.0 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P555001

CATALOG NUMBER: FUSL-12-2-LD4-2LO-40-UNV-80-88-EDD

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°	4890	4890	4890
5°	4903	4882	4841
10°	4851	4838	4782
15°	4765	4765	4710
20°	4664	4670	4611
25°	4511	4567	4494
30°	4248	4438	4384
35°	4014	4254	4261
40°	3818	4024	4130
45°	3600	3781	3975
50°	3370	3563	3805
55°	3109	3315	3599
60°	2800	3025	3348
65°	2472	2690	3045
70°	2060	2291	2587
75°	1618	1830	2025
80°	1159	1286	1429
85°	753	753	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	4.1
10°-20°	240.3	11.4
20°-30°	351.2	16.7
30°-40°	398.7	19.0
40°-50°	384.8	18.3
50°-60°	317.5	15.1
60°-70°	211.4	10.1
70°-80°	94.6	4.5
80°-90°	16.9	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°	677.1	32.2
0°-40°	1075.7	51.2
0°-60°	1778.1	84.6
0°-90°	2101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	908	907	904	899	896	86
15°	855	857	855	851	845	241
25°	760	766	769	763	757	348
35°	611	619	648	651	649	383
45°	473	481	497	519	522	365
55°	331	337	353	373	384	296
65°	194	199	211	226	239	192
75°	78	82	88	92	97	85
85°	12	12	12	12	12	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	908.6	908.6	908.6	908.6	908.6
2.5°	911.1	911.4	909.3	903.7	900.3
5°	907.6	907.2	903.7	898.9	896.1
7.5°	897.5	898.2	897.1	890.1	886.3
10°	887.7	888.0	885.2	879.7	875.1
12.5°	875.1	874.8	870.9	868.1	860.8
15°	855.2	857.3	855.2	851.4	845.4
17.5°	836.0	836.0	837.4	830.8	826.2
20°	814.4	815.4	815.4	810.2	805.0
22.5°	789.2	792.4	793.4	787.9	781.6
25°	759.6	765.5	769.0	763.4	756.8
27.5°	723.6	732.7	743.2	739.0	731.6
30°	683.5	696.7	714.2	710.7	705.5
32.5°	645.4	658.7	682.8	681.4	678.6
35°	610.9	619.2	647.5	651.0	648.6
37.5°	578.1	585.7	612.3	620.3	618.2
40°	543.5	551.9	572.8	587.1	587.8
42.5°	509.3	517.3	534.4	555.0	555.0
45°	473.0	481.0	496.7	519.4	522.2
47.5°	437.4	445.8	461.1	483.8	488.3
50°	402.5	410.2	425.5	447.5	454.5
52.5°	366.2	374.6	389.6	409.8	419.9
55°	331.3	336.9	353.3	372.8	383.6
57.5°	295.0	300.2	318.7	335.5	346.6
60°	260.1	266.7	281.0	298.1	311.0
62.5°	226.5	233.5	245.7	260.8	275.4
65°	194.1	199.3	211.2	226.2	239.1
67.5°	162.7	167.2	179.1	189.5	203.2
70°	130.9	136.8	145.6	155.7	164.4
72.5°	105.4	107.9	115.2	122.5	131.6
75°	77.8	82.0	88.0	92.2	97.4
77.5°	55.9	58.3	61.8	65.3	70.2
80°	37.4	38.4	41.5	42.2	46.1
82.5°	22.7	23.4	24.1	24.4	25.8
85°	12.2	12.2	12.2	11.5	11.5
87.5°	7.0	7.0	5.9	4.9	3.5
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)