

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: P555042

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-93-85-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: P555042
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-93-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

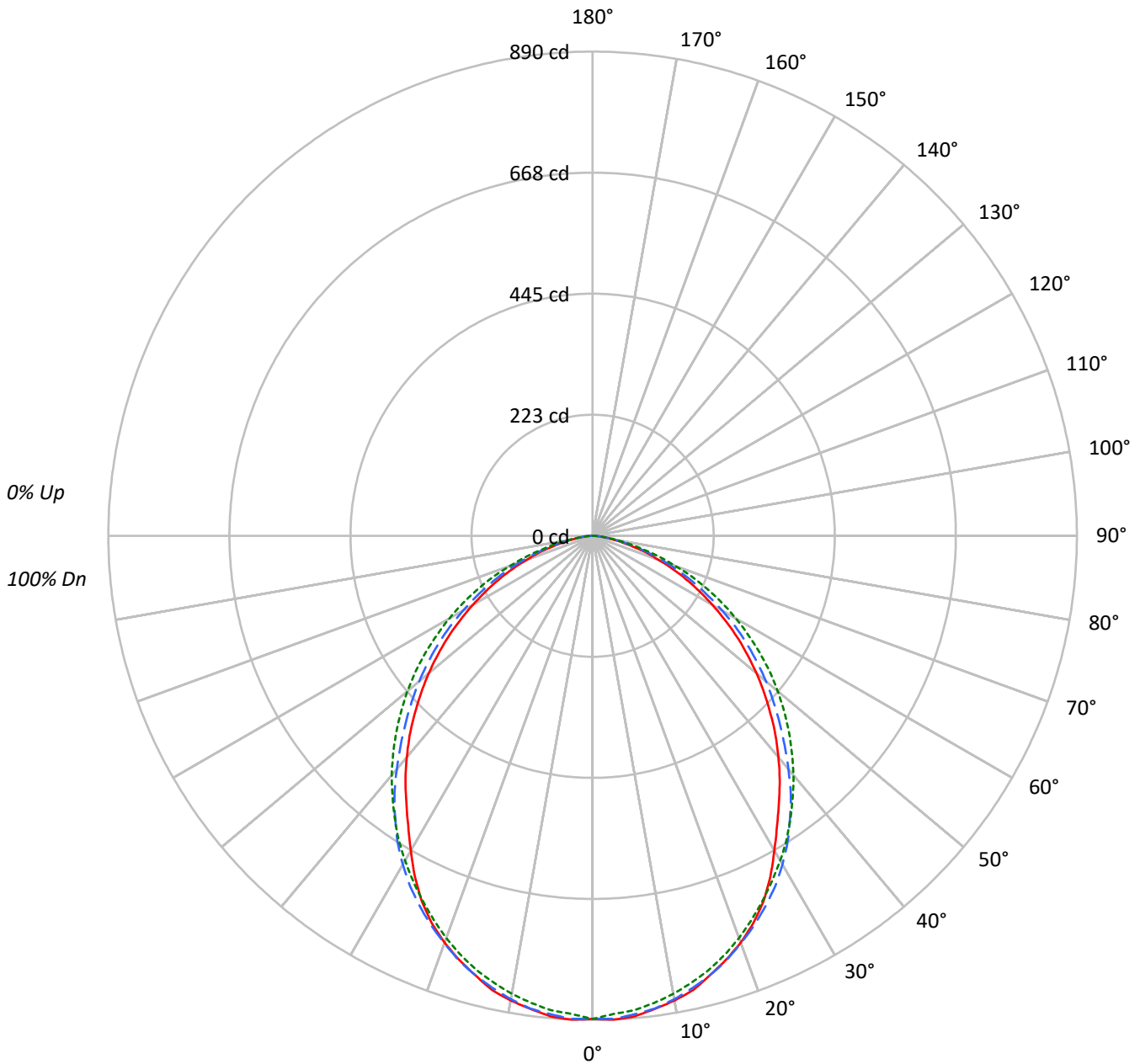
Lumens per Lamp: N/A
Luminaire Lumens: 2053.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P555042

CATALOG NUMBER: FUSL-12-2-LD4-2LO-40-UNV-93-85-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°	4779	4779	4779
5°	4791	4771	4730
10°	4740	4727	4673
15°	4656	4656	4603
20°	4558	4564	4505
25°	4407	4462	4391
30°	4151	4337	4284
35°	3922	4157	4164
40°	3731	3932	4036
45°	3518	3694	3884
50°	3293	3481	3718
55°	3037	3239	3518
60°	2735	2956	3271
65°	2415	2628	2975
70°	2013	2238	2529
75°	1582	1788	1980
80°	1131	1258	1395
85°	735	735	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	4.1
10°-20°	234.8	11.4
20°-30°	343.2	16.7
30°-40°	389.6	19.0
40°-50°	376.1	18.3
50°-60°	310.2	15.1
60°-70°	206.6	10.1
70°-80°	92.5	4.5
80°-90°	16.5	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°	661.6	32.2
0°-40°	1051.2	51.2
0°-60°	1737.4	84.6
0°-90°	2053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2053.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	887	886	883	878	876	84
15°	836	838	836	832	826	236
25°	742	748	751	746	740	340
35°	597	605	633	636	634	374
45°	462	470	485	508	510	357
55°	324	329	345	364	375	289
65°	190	195	206	221	234	188
75°	76	80	86	90	95	83
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.9	887.9	887.9	887.9	887.9
2.5°	890.3	890.6	888.6	883.1	879.7
5°	886.8	886.5	883.1	878.3	875.6
7.5°	877.0	877.6	876.6	869.8	866.0
10°	867.4	867.7	865.0	859.6	855.1
12.5°	855.1	854.8	851.0	848.3	841.1
15°	835.7	837.7	835.7	831.9	826.1
17.5°	816.9	816.9	818.3	811.8	807.4
20°	795.8	796.8	796.8	791.7	786.6
22.5°	771.2	774.3	775.3	769.9	763.7
25°	742.2	748.0	751.4	746.0	739.5
27.5°	707.1	716.0	726.2	722.1	714.9
30°	667.9	680.8	697.9	694.5	689.4
32.5°	630.7	643.6	667.2	665.8	663.1
35°	596.9	605.1	632.7	636.1	633.8
37.5°	564.9	572.4	598.3	606.1	604.1
40°	531.1	539.3	559.7	573.7	574.4
42.5°	497.7	505.5	522.2	542.3	542.3
45°	462.2	470.0	485.4	507.5	510.3
47.5°	427.4	435.6	450.6	472.8	477.2
50°	393.3	400.8	415.8	437.3	444.1
52.5°	357.8	366.0	380.7	400.4	410.3
55°	323.7	329.2	345.2	364.3	374.9
57.5°	288.2	293.3	311.4	327.8	338.7
60°	254.1	260.6	274.6	291.3	303.9
62.5°	221.4	228.2	240.1	254.8	269.1
65°	189.6	194.8	206.4	221.0	233.6
67.5°	159.0	163.4	175.0	185.2	198.5
70°	127.9	133.7	142.2	152.1	160.7
72.5°	103.0	105.4	112.6	119.7	128.6
75°	76.1	80.2	86.0	90.0	95.2
77.5°	54.6	57.0	60.4	63.8	68.6
80°	36.5	37.5	40.6	41.3	45.0
82.5°	22.2	22.9	23.5	23.9	25.2
85°	11.9	11.9	11.9	11.3	11.3
87.5°	6.8	6.8	5.8	4.8	3.4
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)