

Comparison of Backlit LED Panel between a competitor & Jibe Lighting



Thickness

Frame

LEDs

Driver

LED strip's connecting

Lighting performance

Diffuser

Warranty & certificates

Back plate

Terms

Thickness

JIBE: 30mm



OTHERS: 32mm-35mm



Saving packaging volume,
looks slim

JIBE: Runlite SMD2835

1. Long lifespan guaranteed, LM80 report: 60000hrs lifespan @105°C

Test Condition 3 - 105°C Case Temp	
Sample size	25
Number of failures	0
DUT drive current used in the test (mA)	100
Test duration (hours)	10,000
Test duration used for projection (hour to hour)	5,000 - 10,000
Tested case temperature (°C)	105
α	3.414E-06
B	1.001
Reported L80(10k) (hours)	>60000

OTHERS: unkown brand

1. Uncertained lifespan, no test or reports guaranteed

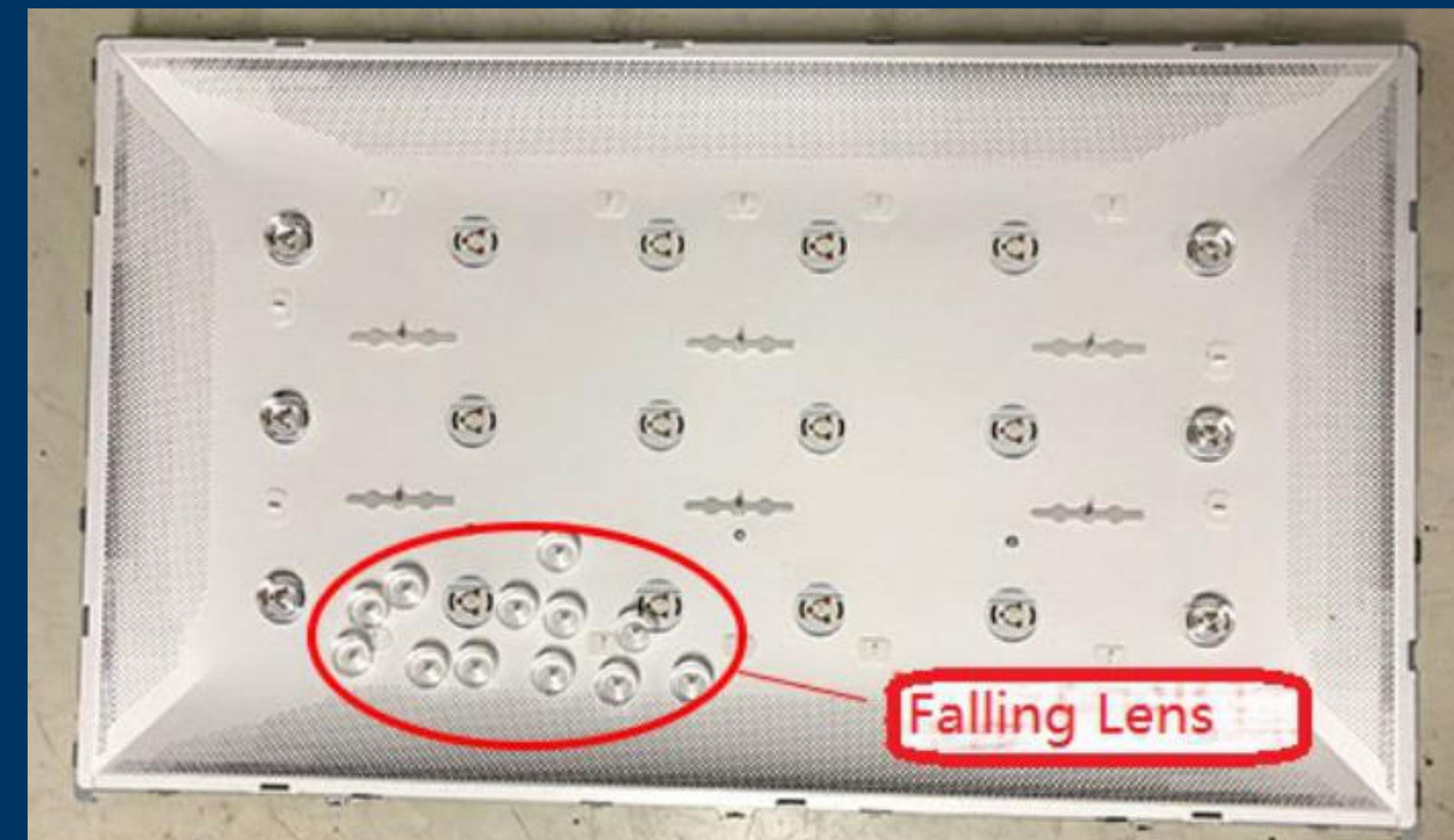
JIBE: Runlite SMD2835

- 2. PMMA Lens, transmission rate: 93%, high efficiency guaranteed;
- 3. High-quality glue on Lens, lens won't drop & loose after tests.



OTHERS: unkown brand

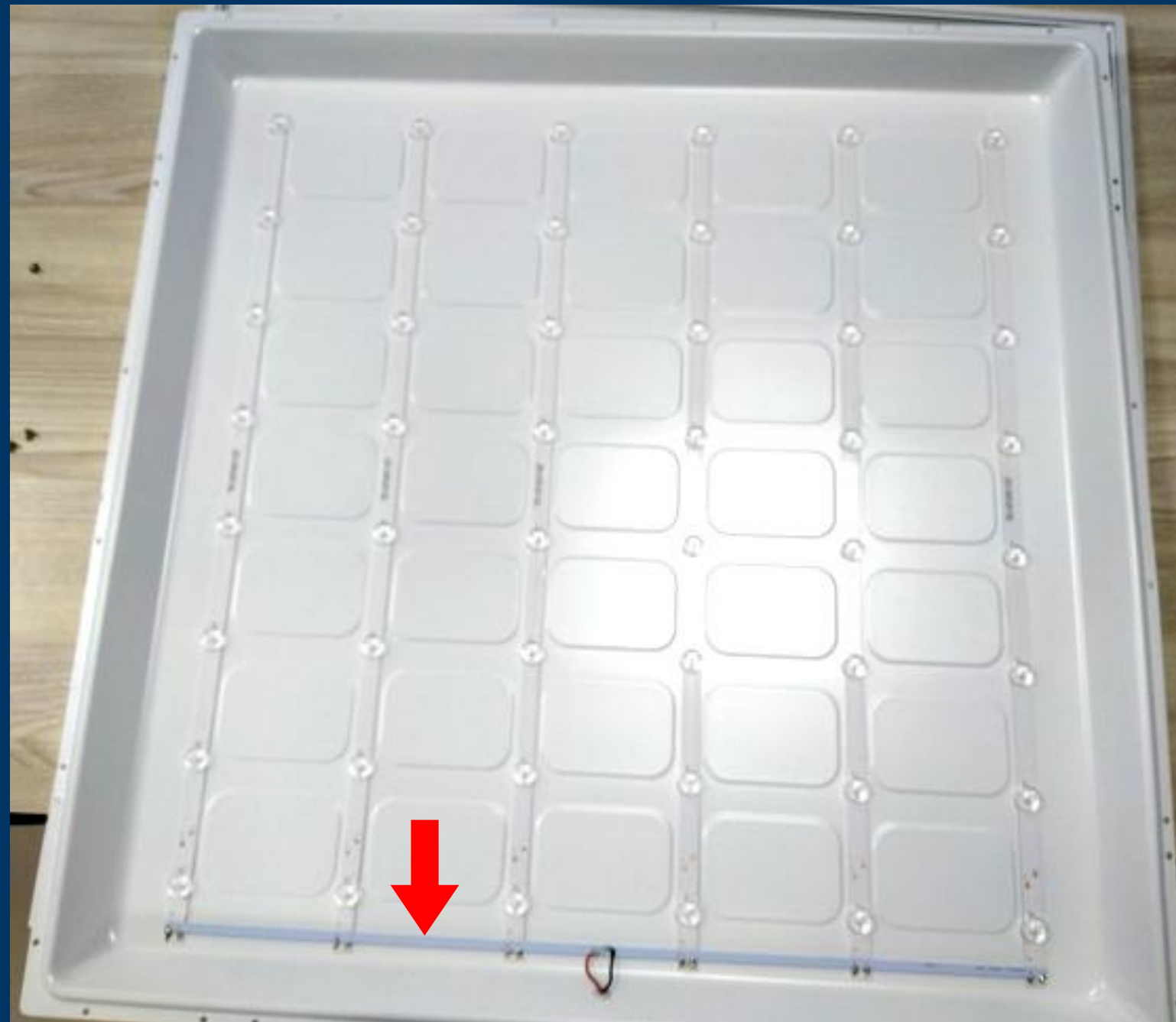
- 2. Common Lens, common tansmittance rate;
- 3. Common glue used, no tests, high risk of lens dropping& loosing in high temperature and humidity.



LED strip's connecting

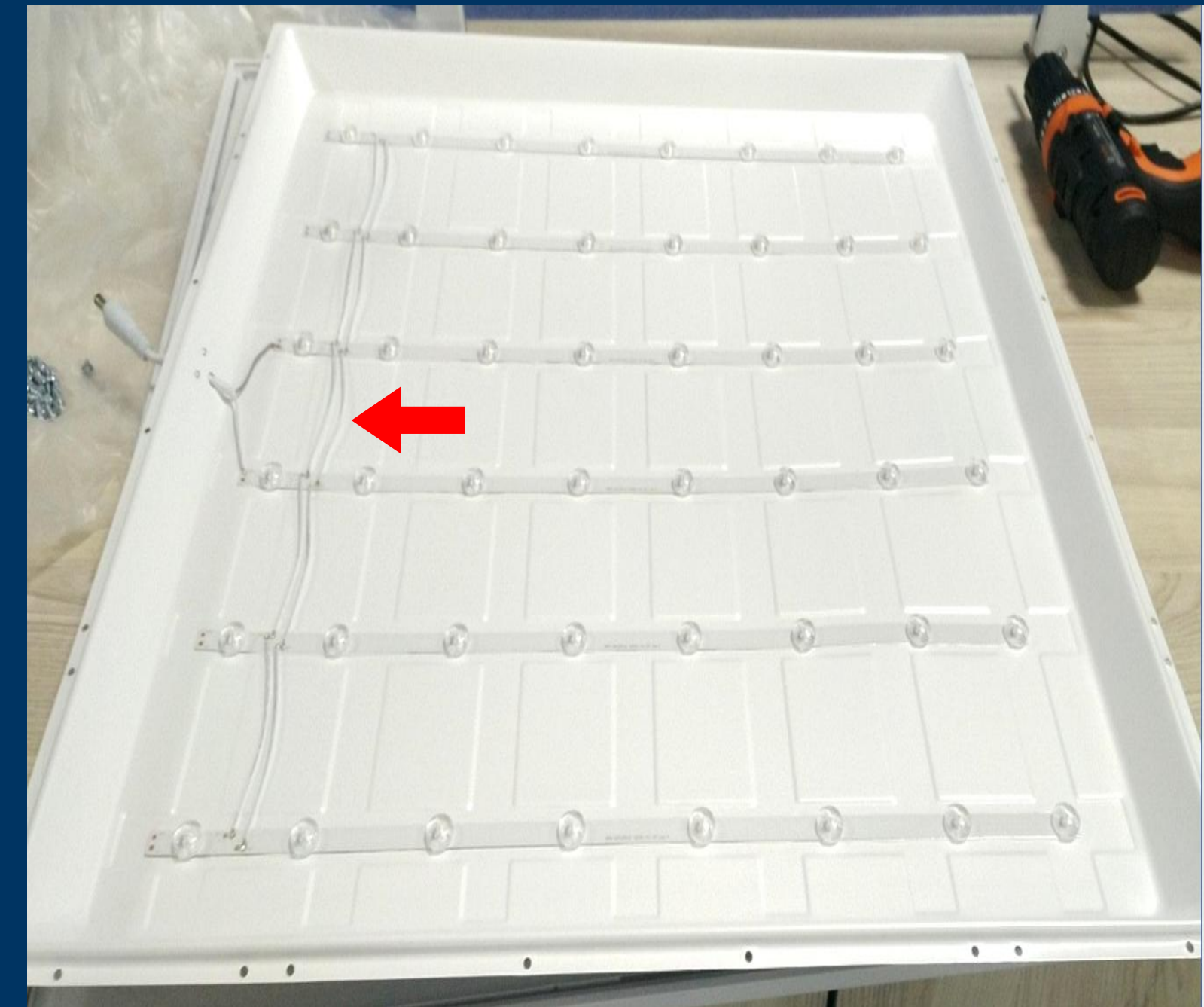
JIBE: By PCB

1. By FR4 PCB, Wireless, no shadow
2. More uniformed light distribution
3. Cleaner design of DC input wiring



OTHERS: By wires

By wiring, easily loose, shaow may exist



LED strip's connecting

JIBE: By PCB

OTHERS: By wires



PCB not drop & loose
After 168hrs aging
100N thrust test: PASS
46N pulling test: PASS



Easily broken and drop.

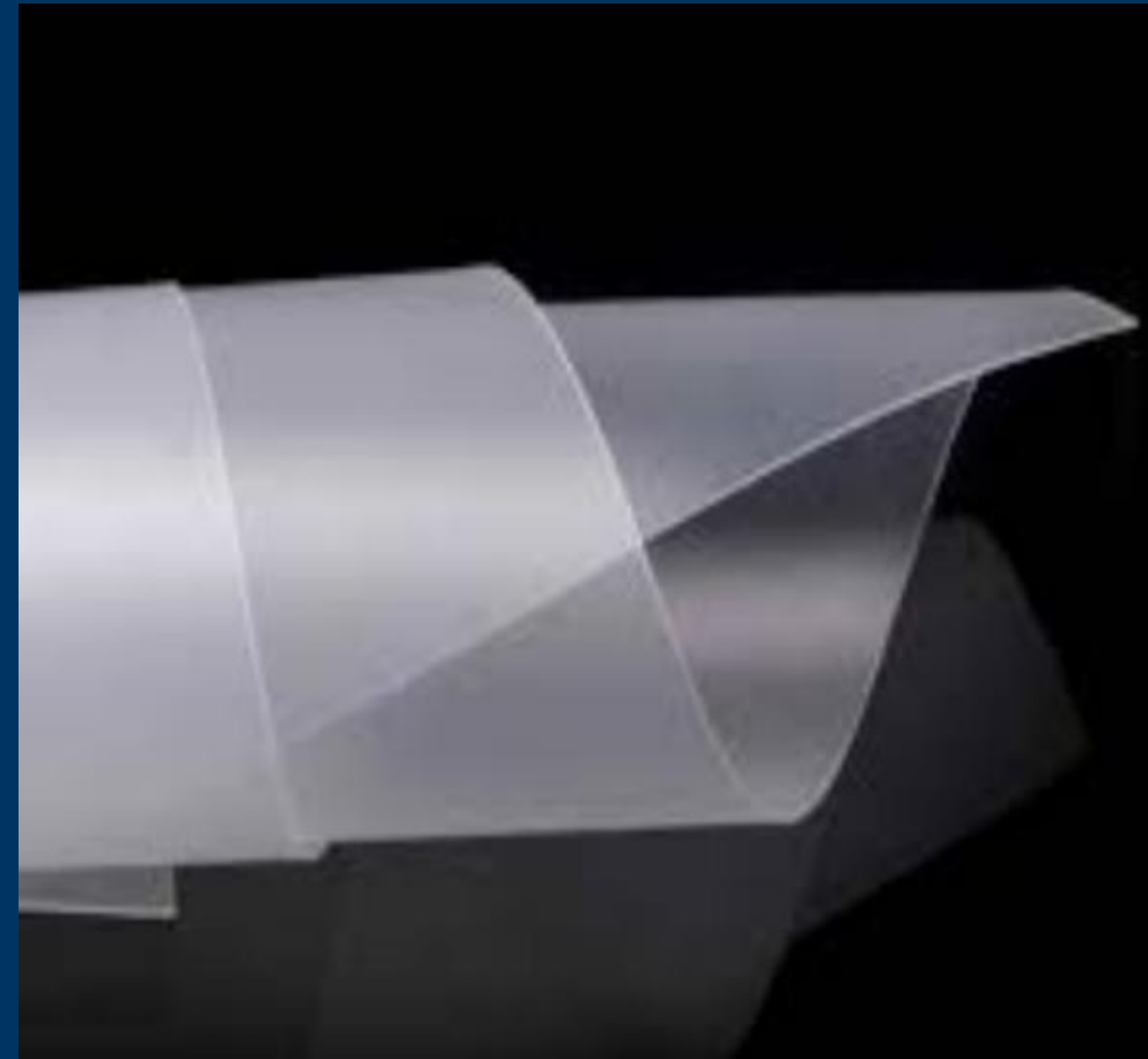
Diffuser

JIBE: PS



Stable performance even used for a long time

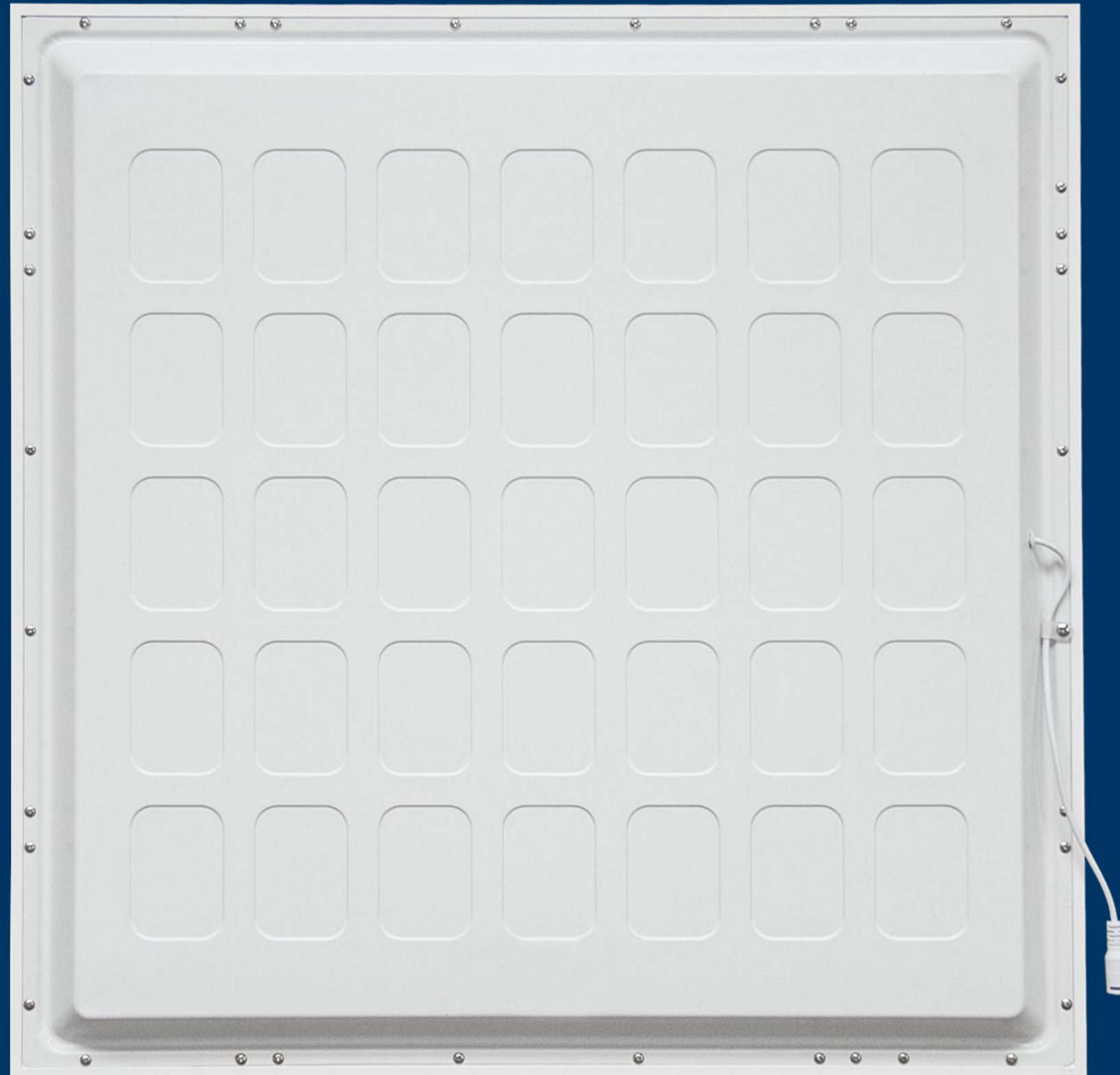
OTHERS: PP



Easily getting soft and yellow

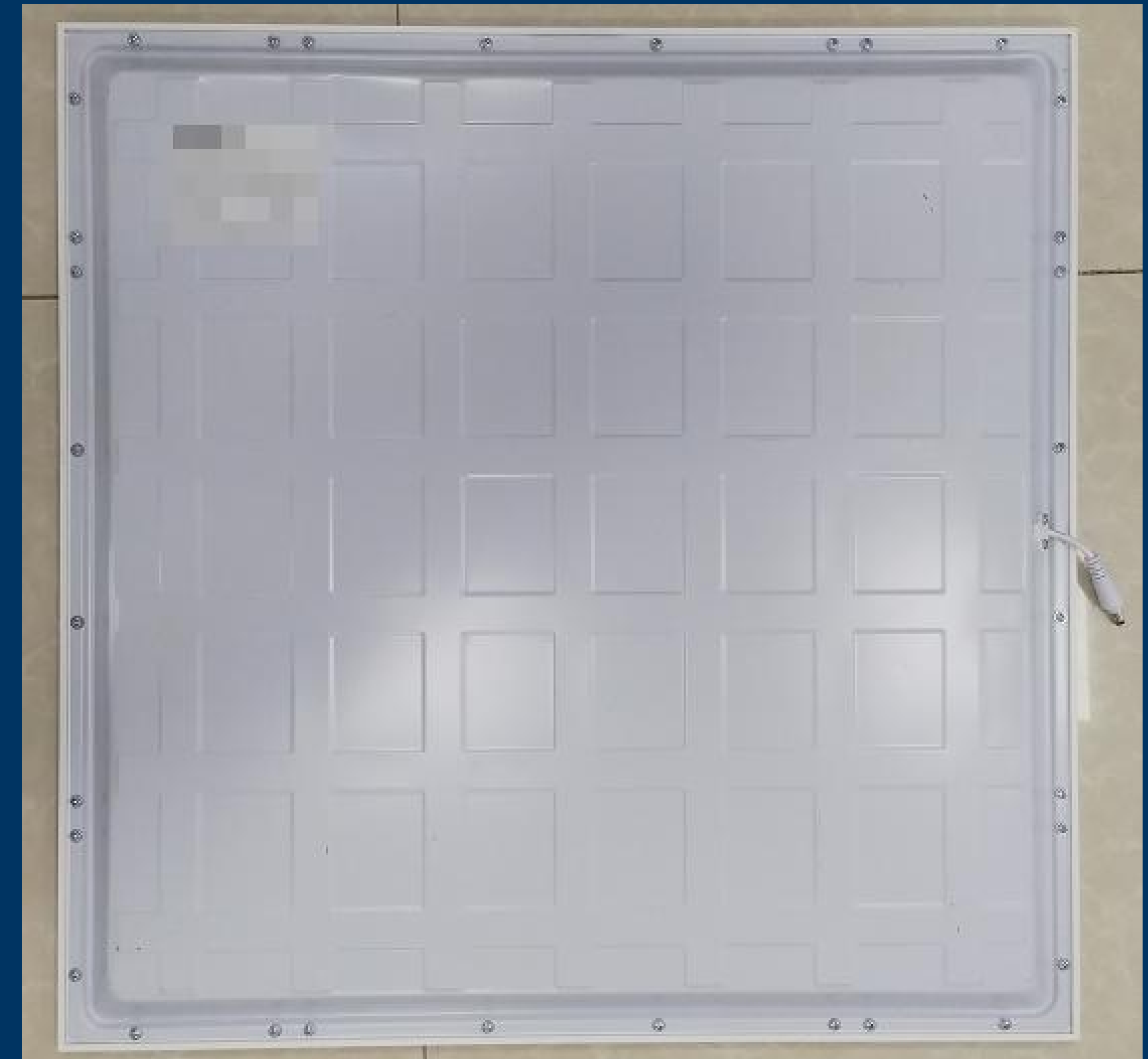
Back plate

JIBE: Private mould



1. SPCC material, better dissipation, much stronger
2. Processed with coating to reflect the light, making light distribution more even
3. Concave-convex design

OTHERS: Common mould



Common material, easily sunken and damaged during transportation

Frame

JIBE

OTHERS



Screw slot:
Y-shaped, corrugated, and inverted
design to fasten the frame and back plate,
no light leakage

No design, light leakage may happen

JIBE: By PCB

Philips/Osrams'OEM driver factory & Double stage APFC+ Flyback driver solution

1. Meanf brand: big and professional driver factory, no worry for after-sale issues
2. Pass all safety test
3. With ENEC/CB/CE/RCM from TUV
4. Solution: Double stage APFC+ Flyback (MOS solution)

OTHERS: By wires

1. from unknow or small driver factory, be careful for after-sale issues
2. common CE/CB
3. Solution: Single stage LLC (Redisem solution)



65.00 mm

40.00 mm

MINGFIRST POWER
LED POWER SUPPLY(LED控制装置)
Model: MIHN2040YB-C1000A
Mingfirst Power Industrial Co., Ltd
For LED modules USE only
Made in China(中国制造)

CE, TUV, SAA, SELV, RoHS, EN 25

Uin: 220-240V~	Prated: 40W max.
Iin: 0.3A	Output: 27-40Vdc
Freq: 50/60Hz	Uout: 59Vdc
PF: 0.9C	Irated: 1.00A
ta: 45°C	tc: 85°C

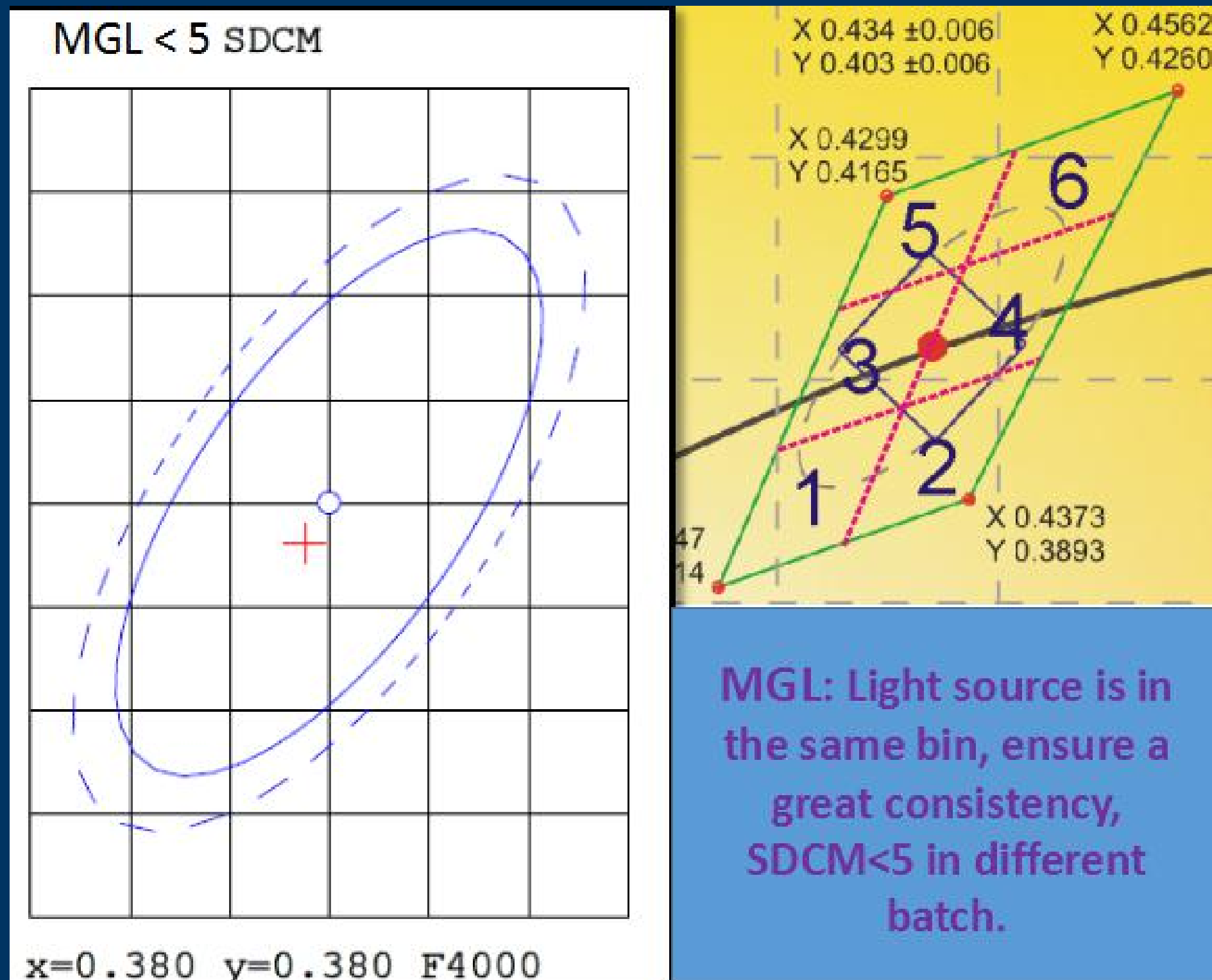
INPUT: 220-240V~ 0.75-1.5°

OUTPUT: 0.5-1.0°

Lighting Performance

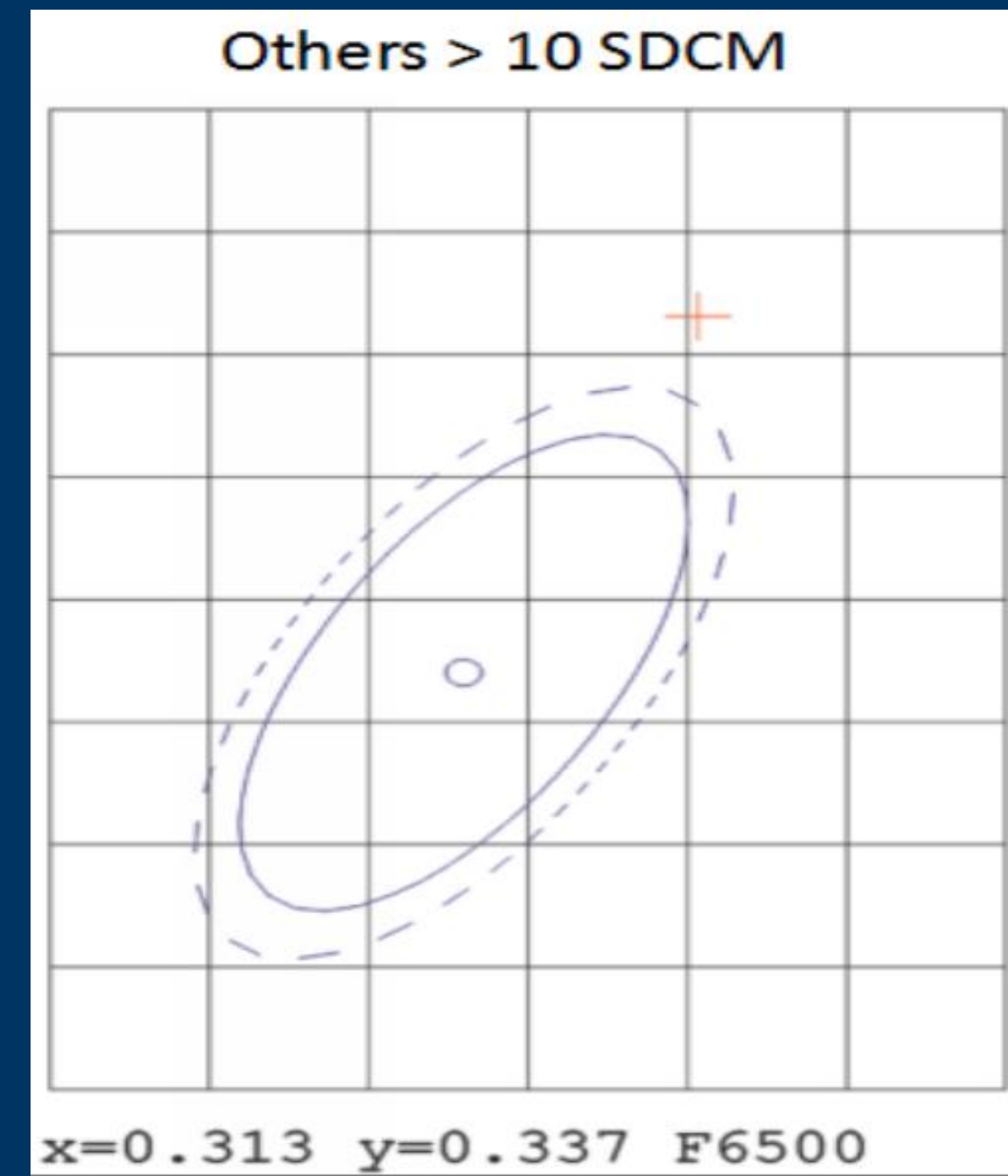
JIBE: Runlite SMD2835

Same color in one order, and keep same color in different batches (SDCM<3 & SDCM<5)



OTHERS: unknown brand

There are color difference in different order



Lighting Performance

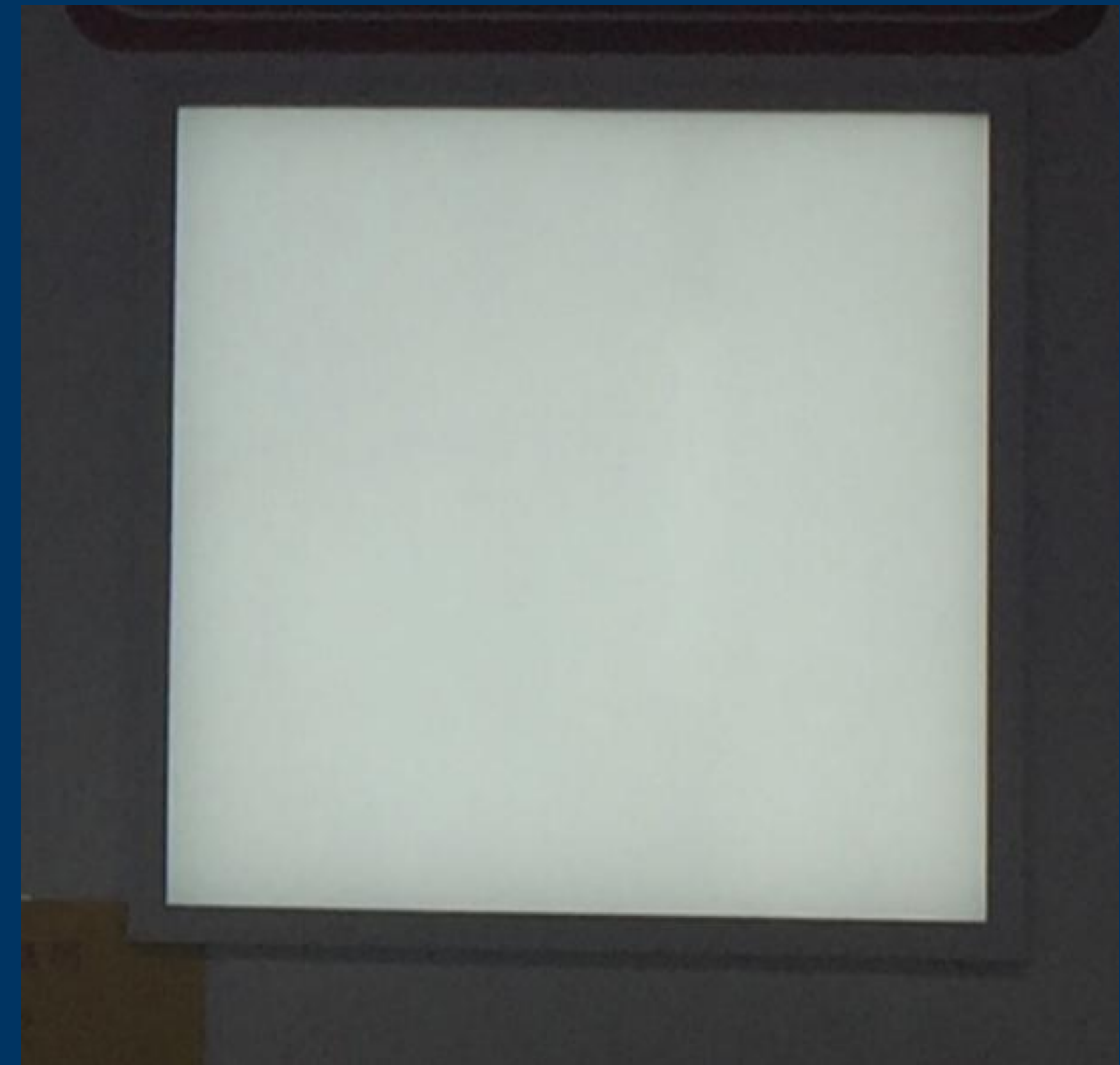
JIBE



Backlit Panel	595x595mm		
	18.05	20.65	18.44
	18.4	22.26	19.35
	18.98	19.2	18.26
9 points uniformity=81			

9 points uniformity > 80%

OTHERS



Bad uniformity, no data approved

Warranty & certificates

JIBE

- 5 year warranty,
- 3 year warranty
- ENEC, CB, GS, CE, RCM from TUV



OTHERS

- 2 & 3 years 30000hrs warranty
- CB, CE, RCM from Chinese Lab

Thanks for your time.

