TEST REPORT

Report Number:	JAT22010303683CN-01
Product Name:	Led panel light
Model Number:	MPL-0606-36 Etc. (see next page for details)
Classification of test:	Commission Test
Prepared For :	Jiangsu Fulin Fluid Technology Co., Ltd.

东莞市君安检测认证有限公司

Dongguan Junan Testing & Certification Co., Ltd.

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The phone: 0769-81710286

The url: www.junantest.com

TEST REPORT

IEC 62722-2-1

Luminaire Performance

Part 2: Particular requirements:

Section One – LED luminaires

Report reference No.....:	
Tested by (name) .....:	Denny Zeng
Compiled by (name) .....:	Otto Lee
Approved by (name) .....:	Tim You
Date of issue.....:	Aug. 9, 2022
Total number of pages.....:	9 pages
Applicant's name.....:	MIC Optoelectronic Co.,Ltd.
Address.....:	2nd floor,Third Building, 97# AiNan Road,LongDong, BaoLong Street, LongGang District, Shenzhen, China
Testing Laboratory.....:	Dongguan Junan Testing & Certification Co., Ltd.
Address.....:	Room 303, Building 1, No.316, Minzhou Road, Shatan Town, Dongguan city, Guangdong Province, China
Test location .....:	Same as above
Test specification:	
Standard .....:	IEC 62722-2-1:2014 for use in conjunction with
Test procedure .....:	Commissioned inspection
Non-standard test method.....:	N/A
Test item description.....:	Led panel light
Brand Name.....:	N/A
Manufacturer.....:	Same as applicant
Model/Type reference .....:	MPL-0606-36，MPL-0303-24，MPL-0306-36，MPL-0312-36，MPL-0612-60，MPL-R105-4，MPL-R120-6，MPL-R145-9，MPL-R160-10，MPL-R170-12，MPL-R180-12，MPL-R195-15，MPL-R225-18，MPL-R240-18，MPL-R250-20，MPL-R300-24，MPL-S105-4，MPL-S120-6，MPL-S145-9，MPL-S175-12，MPL-S195-15，MPL-R225-18，MPL-R250-20
Ratings.....:	200-240V~，50Hz，36W

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Test item particulars.....:	
Temperature range .....:	(21.4-24.3)°C
Relative humidity.....:	(53-62)%
Air pressure.....:	100kPa
Test Date .....:	Jan.03.2022- Aug.09.2022

Possible test case verdicts:

- test case does not apply to the test object.....:	N/A
- test object does meet the requirement .....:	Pass
- test object does not meet the requirement .....:	Fail

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
"(see Enclosure #)" refers to additional information appended to the report.
"(see appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

General product information and other remarks:/

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1	GENERAL REQUIREMENTS		
	Safety requirement of luminaire considered	Standard 60598-2- Yes ☒ No ☐	P
	Light source and components delivered with the luminaire shall comply with the requirements of the appropriate IEC performance standards		P
	Performance requirement of IEC/PAS 62722-1 considered		P
	Type of LED luminaires	Type A ☐ Type B ☒ Type C ☐	P
	The LED luminaire shall be so designed and constructed that it can start and operate satisfactorily at voltages between 92% and 106% of rated supply voltage		P

4	PRODUCT INFORMATION		
	- Rated input power (W) ..... :	36W	P
	- Photometric code ..... :		P
	- Rated luminous flux (lm)..... :		P
	- Rated median useful life (h) and the associated rated lumen maintenance factor (x) ..... :		P
	- Rated abrupt failure value (%)..... :		P
	- Lumen maintenance code..... :		P
	- Rated chromaticity co-ordinate values both initial and maintained ..... :		P
	- Rated correlated colour temperature (CCT in K)..... :		P
	- Rated colour rendering index (CRI)..... :		P
	- Rated ambient temperature (t_q) related to performance for a luminaire (°C) ..... :		P
	- Rated LED luminaire luminous efficacy (in lm/W) ..... :		P
	- Ageing time, if different from 0 h (h)..... :		P

6	TEST CONDITIONS		
6.1	Test conditions for testing electrical and photometric characteristics, lumen maintenance and life comply with annex A		P
	Sample size ..... :		P
	LED luminaires with dimming control		N/A
	LED luminaires with adjustable CCT		N/A
	LED luminaires of geometry and variable length		N/A
6.2	**Luminaires with LED modules in compliance with IEC 62717 (Type A)**		N/A
	Thermal test according 12.4 of IEC 60598-1	See table 6.2	N/A
	LED module operates within its temperature limit t_p		N/A

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6.3	**Luminaires with LED modules not in compliance with IEC 62717 (Type B)**		P
6.3.1	Test duration: 25% of rated life up to a maximum of 6000 h	6000h	P
6.3.2	Creation of module families to reduce test effort		P
6.3.2.1	General – cl 6.2.1 of IEC 62717 applied		P
6.3.2.2	Variations within family – cl 6.2.2 of IEC 62717 applied		P
6.3.2.3	Compliance testing of family members – cl 6.2.3 of IEC 62717 applied		P

7	**INPUT POWER (See table 7, 8.1 & 8.3)**		P
	Initial power consumed by LED luminaire not exceeds rated power by more than 10 %..... :	-1.5%	P

8	**PHOTOMETRIC PERFORMANCE (See table)**		
8.1	**Luminous flux (See table 7, 8.1 & 8.3)**		P
	Initial luminous flux not less than rated luminous flux by more than 10 %..... :		P
8.2	**Luminous intensity distribution, peak intensity and beam angle (See table 8.2)**		--
8.2.3	Luminous intensity distribution		P
8.2.4	Initial peak intensity of LED luminaire (directional type only) not less than 75% of rated intensity..... :		P
8.2.5	Beam angle value of LED luminaire (directional type only) not deviates by more than 25% of rated value ..... :		P
8.3	**Luminaire luminous efficacy (See table 7, 8.1 & 8.3)**		P
	Efficacy of LED luminaire not less than 80% of rated efficacy ..... :	>90%	P

9	**CHROMATICITY CO-ORDINATES, CORRELATED COLOUR TEMPERATURE AND COLOUR RENDERING**		P
9.1	Measured chromaticity co-ordinate values of a LED luminaire (the initial value and maintained value) are within the chromaticity co-ordinate tolerance category		P
9.2	Measured CCT within the value as declared		P
9.3	Measured CRI not decreased by more than 3 points from rated CRI value for initial CRI values		P
	Measured CRI not decreased by more than 4 points from rated CRI value for maintained CRI values		P

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10	**LED LUMINAIRE LIFE**		
10.2	Measured flux value at 25% of rated life (with a maximum duration of 6000 h) not less than the maximum lumen maintenance value related to the rated life		P
	Measured lumen maintenance corresponds with “lumen maintenance code”		P
	All the LED modules within a sample comply		P
10.3	Temperature cycling test		P
	Alternative test used	☐ Alternative test 1 (10K/min) ☒ Alternative test 2 (1K/min)	-
	LED luminaire operates and luminous flux stays within the claimed lumen maintenance code for a period of at least 15 minutes		P
	LED luminaire show no physical effects		P
	Supply switching test		N/A
	LED luminaire operates and luminous flux stays within the claimed lumen maintenance code for a period of at least 15 minutes		N/A
	Accelerated operation life test		N/A
	LED luminaire remains alight for at least 15 minutes after cooling down to room temperature		N/A

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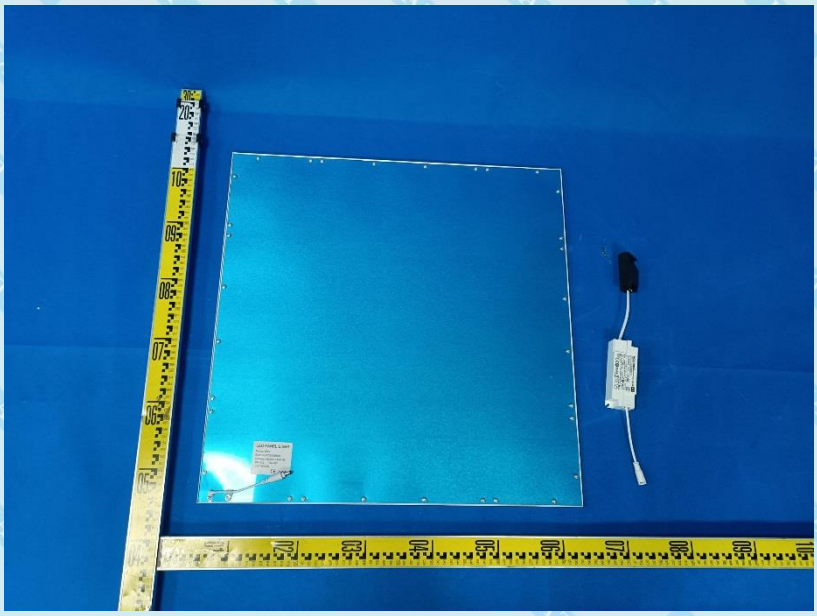
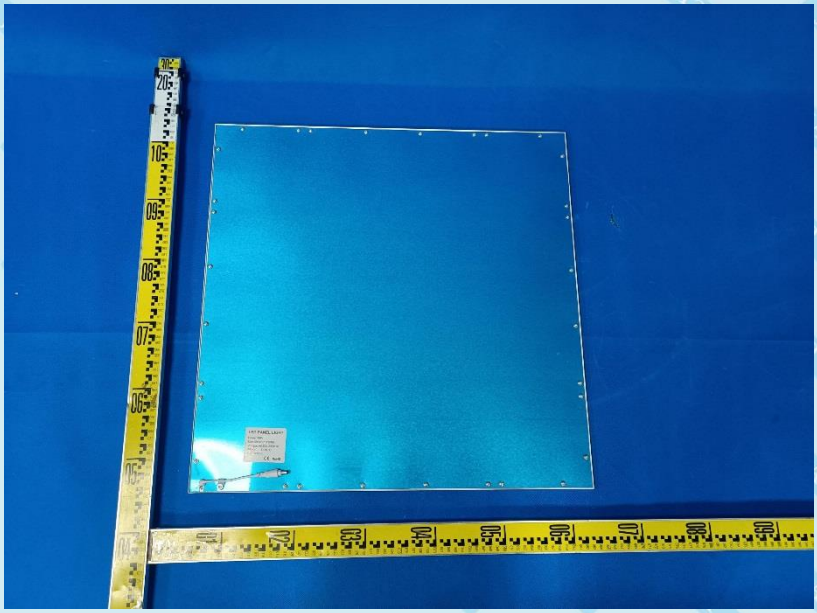
Sample photos



Product appearance



Product appearance

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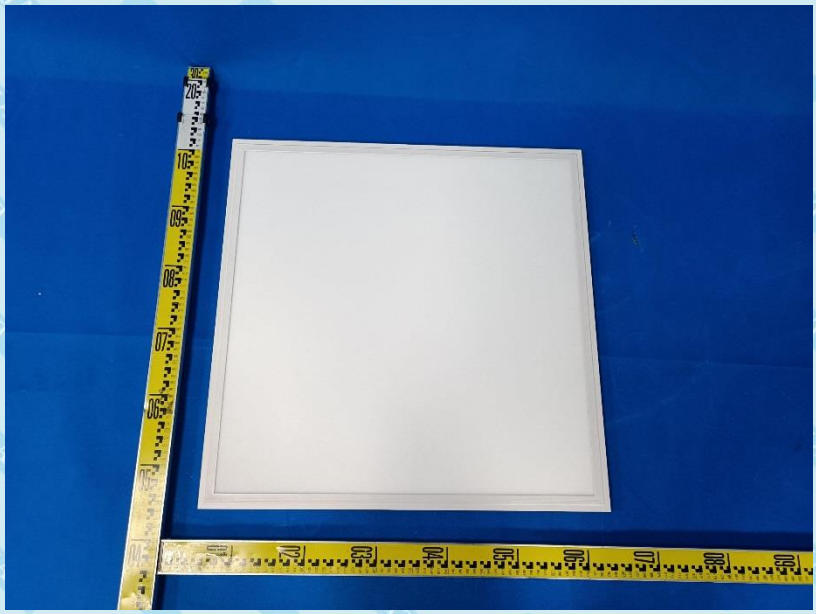
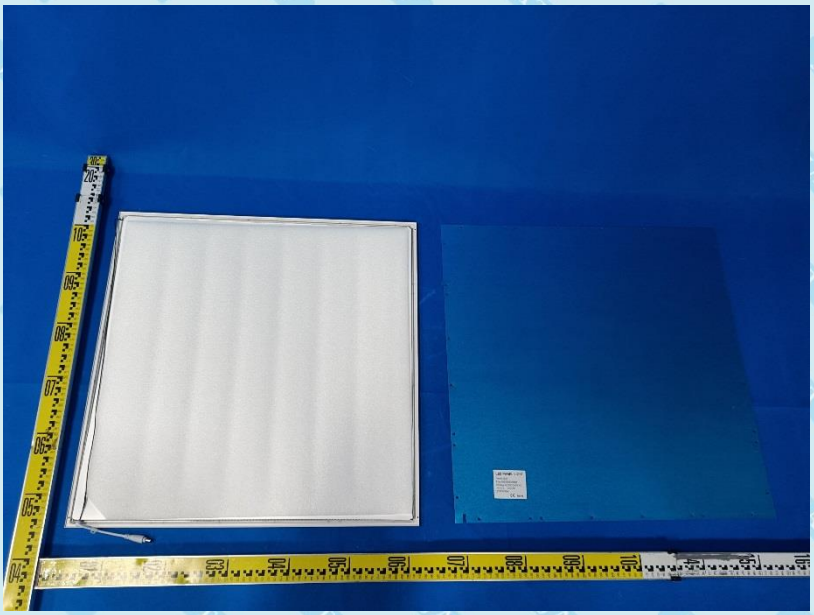


Product appearance



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5. Client shall put forward any objections to the contents of this Report within 15 (fifteen) days of receipt. Thereafter the Report contents and conclusions remainaccepted and agreed and no further changes will be considered.
6. The test results presented in this report relate only to the object tested.

--END--

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