

Test Report

COPY

Report No. F-0908053

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| <input type="checkbox"/> Name : Jang Su-gil | <input type="checkbox"/> Registration Number: 134-86-12929 |
| <input type="checkbox"/> Address : 210-12 Daeya-dong Siheung-si Gyeonggi-do(Seoul 429-807 Korea) | |
| <input type="checkbox"/> A Company : OK INDUSTRY INC. | <input type="checkbox"/> Rating : 12 VDC |
| <input type="checkbox"/> Product : LED module for channel letter signs
[OK-W7203] | <input type="checkbox"/> Quantities : 1 Set (50 modules) |
| <input type="checkbox"/> Test Method : Standard at the clients' request | <input type="checkbox"/> Date of receipt : 2009. 08. 06 |
| <input type="checkbox"/> Date of Test : 2009. 08. 06 ~ 2009. 08. 21 | <input type="checkbox"/> Purpose of use : Use for Q.C. |
| <input type="checkbox"/> Test Items : Initial Values, Terminal Voltage
fluctuation ratio, Thermal Shock,
Proof against the cold, Proof
against the heat | <input type="checkbox"/> pages : 2 |

Test Result

Attachment

Note) Temperature ; (24±3) °C, Humidity ; (45±20) % R.H.

- ◇ This is to certify that the sample submitted by client above has been tested.
- ◇ This report should be used for the purpose of use above only.

2009. 08. 21

KOREA INSTITUTE OF LIGHTING TECHNOLOGY

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Test Result

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Report No.	F-0908053	Sample No.	n1	Product	LED module for channel letter signs [OK-W7203]	Test Method	Standard at the clients' request [Refer to KS C 7659]
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Test Items		Unit	Test Results	Remarks
Initial Values	Initial Luminous Flux (condition : minimum 95 %)	%	102	rated luminous flux : 2 750 lm
	Luminous Efficiency (condition : in white LEDs, minimum 40)	lm/W	67.6	rated voltage luminous flux : 2 800.8 lm
Terminal Voltage fluctuation ratio (condition : minimum 90 %)		%	98.2	terminal voltage luminous flux : 2 751.9 lm
Thermal Shock (condition : each 1 hr at -10 ℃ and 50 ℃, 5 repetition)		-	Normal	
Proof against the cold (condition : (-30±2) ℃, for 10 hrs)		-	Normal	
Proof against the heat (condition : (70±2) ℃, for 10 hrs)		-	Normal	

※ The above is the test results of the specimen provided by the applicant.

[pictures of the specimen]

