

No. 2013 - 0005



## Safety Certificate

- Manufacturer SEMI LIGHTING CO., LTD.
- Address 328-32, Docheogwit-ro, Gwangju-si, Gyeonggi-do, Republic of Korea

The following product fabricated by the above manufacturer has been certified for the use of the Safety Certification Mark as the product was assessed and tested in accordance with the article 34 of the Occupational Safety & Health Act and the article 58 (4) 4 of the Enforcement Rule thereof.

- Product LED Lighting Fixture
- Type(Model) DIP21-L60-120
- Rating AC 240 V 60W
- Type of Protection Ex tD A21 T100℃
- Certification No. 13-GA2BO-0005
- Safety Certification Standards Notification of Protective device Mandatory Safety Certification (Notice of Ministry of Employment and Labor No. 2010-36)
- Certification condition Tamb = -20 ℃ ~ +40 ℃
- Date of issue January 3th, 2013

Approved for issue on behalf of the president : Ki-Youn Song  
position : General Manager

Signature

A handwritten signature in black ink, appearing to read 'Ki-Youn Song', is written over a horizontal line.



**Korea Gas Safety Corporation**



Korea Testing Certification



2014.09.19

# Test Report

Report No. : T2014-08534

Company : SEMI LIGHTING  
Representative : Choi Seung Ja  
Address : #328-32 Docheogwit-ro Gwangju-si Gyeonggi-do Korea

- 1. Product Name : Explosion Proof LED Lighting (Ex nR, Ex tD)  
- Type and Model : 220 V~, 60 Hz, 60 W [Model : DIP21-L60-120(nR-L60-120)]
- 2. Use of Report : Internal use only
- 3. Date of Receipt : 2014. 09. 11.
- 4. Date of Test : 2014. 09. 12. - 2014. 09. 19.
- 5. Testing Method : Standards at the client's request
- 6. Test Results : As stated in the annexed paper

Tested by : Cho, Yong Hoon

Approved by : Kyung, Jong Won

- 1. This report is based on the test and analysis performed with the sample(s) submitted by the client. Therefore, the report does not guarantee the quality of entire products.
- 2. This report should not be used for advertising, lawsuit, etc. without any official permission of KTC. It is only used for the purpose of the quality test.
- 3. The copy of this report is invalid for use.

2014. 09. 19.



President

## Korea Testing Certification

www.ktc.re.kr / 435-862 22, Heungan-daero 27beon-gil, Gunpo-si, Gyeonggi-do

TEL : +82-31-455-7654, FAX : +82-31-455-7307

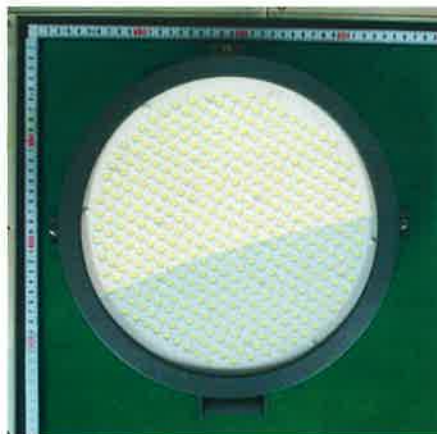


## Test Result

Report No : T2014-08534

Test Items	Standard	Unit	Result
Distribution Photometry	Measured by KS C 8000 Annex 1	-	Attached
Power Consumption	Measured Value	W	62.9
Power Factor	Measured Value	-	0.96
Luminous Flux	Measured Value	lm	8 780.4
Luminous Efficiency	Calculated Value	lm/W	139.7
Color Rendering Index	Measured Value	-	81.2
Correlated Color Temperature	Measured Value	K	4 940

Remarks : 1. Values of the above test result are based on KS Q 5002:2008 (the statistical description of data).  
 2. Temperature : ( 25 ± 5 ) °C, Relative Humidity : ( 65 ± 20 ) % R.H.  
 3. Picture of test sample





# TEST REPORT

( Report No. : EUSI2013-3150 )

1. Client

- Company : SEMI LIGHTING
- Representative : Choi Seung Ja
- Address : #328-32 Docheogwit-ro Gwangju-si Gyeonggi-do Korea

2. Product :

- Name : LED Explosion Proof Lighting
- Manufacturing company & Model : SEMI LIGHTING, DIP21-L60-120 (30 W)

3. Use of Report : Quality control purposes

4. Date of Receipt : 2013. 08. 08.

5. Date of test : 2013. 08. 08 ~ 2013. 08. 12.

6. Testing Methods : KS C 8000 : 2007 and Standards at the client's request

7. Environment :

- Temperature ( °C ) : 25 ± 1, Humidity ( % R.H. ) : 55 ± 10

8. Test Results : As stated in the annexed paper

副本

Affirmation	Tested by	Approved by	
	Name : Song, Woo-Young (signature)	Title : Technical Manager	Name : Oh, Pyung-Sik (signature)

- This report is based on the test and analysis performed with the sample(s) submitted by the client. Therefore, the report does not guarantee the quality of entire products.
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- The copy of this report is invalid for use.

2013. 08. 12.

## KOREA TESTING CERTIFICATION

22 Heungan-daero 27 beon-gil, Gunpo-si,  
Gyeonggi-Do, 435-862, Korea  
www.ktc.re.kr / Tel.: 031-455-7654, Fax.: 031-455-2926





( Report No. : EUSI2013-3150 )

Test Items	Standard	Unit	Result
Distribution Photometry	Measured by KS C 8000 Annex 1	-	Attached
Input Voltage	Measured Value	V	220.0
Input frequency	Measured Value	Hz	60.0
Power Factor	Measured Value	-	0.937
Input Power	Measured Value	W	30.50
Luminous Flux	Measured Value	lm	4 281.9
Luminous Efficiency	Calculated Value	lm/W	140.390
Correlated Color Temperature	Measured Value	K	5 151
Color Rendering Index	Measured Value	-	85.9
<p>Remarks</p> <p>1. Specification : AC 220 V, 60 Hz, 30 W</p>			