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NORMAL
+
EMERGENCY

TECHNICAL

WATERPROOF

SAFETY

BEAM

ECO

MULTI

KFI

MULTIPLE FUNCTION LED LIGHTING

UNIONLIGHT Co., Ltd.

www.univis.co.kr/en



CREATION OF NEW VALUES THAT ILLUMINATE THE WORLD

UNIONLIGHT CO., LTD is

the largest comprehensive developer of lighting equipment in Korea such as emergency lights and 50 other types of rechargeable lights. Unionlight has been INNOBIZ certified by the Small and Medium Business Administration, obtained the Q mark and superior product developer GQ mark from KETI (Korea Electronics Technology Institute), and is enforcing a perfect product warranty system according to the ISO 9001:2015, KS(Korea industrial Standard) Certified, with proven performance and functions through the supply of products to domestic businesses, military, police, and rehuses. Especially, it has obtained the UL mark(international safety standards) and has been selected as a promising small and medium exporter.

Unionlight is ceaselessly endeavoring to achieve its objective of the world's best developer, with the international market pioneering spirit. Also, its role and function as safety equipment for power failure or natural disasters has been recognized, leading to the highest honor for a manufacturer, the Grand Prize of Korea Safety, not to mention the Prime Minister's Award in the Korea Electric Culture Prize.

UNIONLIGHT CO., LTD has grown with the history of "Harmony, Creation, Prosperity" with the calling of development of national economy and contribution to human society.



EMI environment
corresponding technology



Multipurpose functional
design technology



High efficiency lighting
design technology



Green eco-friendly
design technology



CONTENTS

- 03 Introducing Company
- 05 Korea Fire Institute
- 08 Multiple Function LED Lighting
- 13 Smart Emergency Light



HISTORY

We Always Light You. UNIONLIGHT

2010~Present

2019. 09. Excellent Performance Certification

03. Seoul Excellence Taxpayer Recognition.

2018. 12. Environmental Label Certification.

07. Selected as a promising export small and medium enterprise (Small-Medium Venture Business Department)

02. Awarded the Seoul Mayor Award (Korea Electro technology Association)

2017. 12. Obtained "KS(Korean Industrial Standards)" certification

08. "UNI-SENSOR" Obtained CE certification

04. Selected as the "18th Product Safety Person of the Month" (Korea Product Safety Association)

03. Awarded the most beloved brand in Korea

2016. 12. 2016 Obtain family friendly certificate

Awarded silver prize in the 2016 Patent Management Awards

10. The 15rd Korea Safety Grand Prize (Superior Product) (First five time in the industry)

06. The 19th Grand Prize in Korea Electric Culture (President Award)

05. Designated "Clean Workplace"

01. 2016 Korea Satisfaction Consumer Index (Han kyung business News Paper)

2015. 12. Designated as a Promising Export Firm (SBA)

EWP Achieving industrial innovation movement 3.0 (EWP)

05. Designated as Recognized as "High-growth companies" product Korea Standards Association

2014. 01. Designated as a Hi-Seoul Brand Company

2013. 05. Chosen as a mutual growth consultative body by Korea East-West Power
Chosen for investment by the Japan External Trade Organization (JETRO)

2012. 11. The 11rd Korea Safety Grand Prize (Superior Product category)

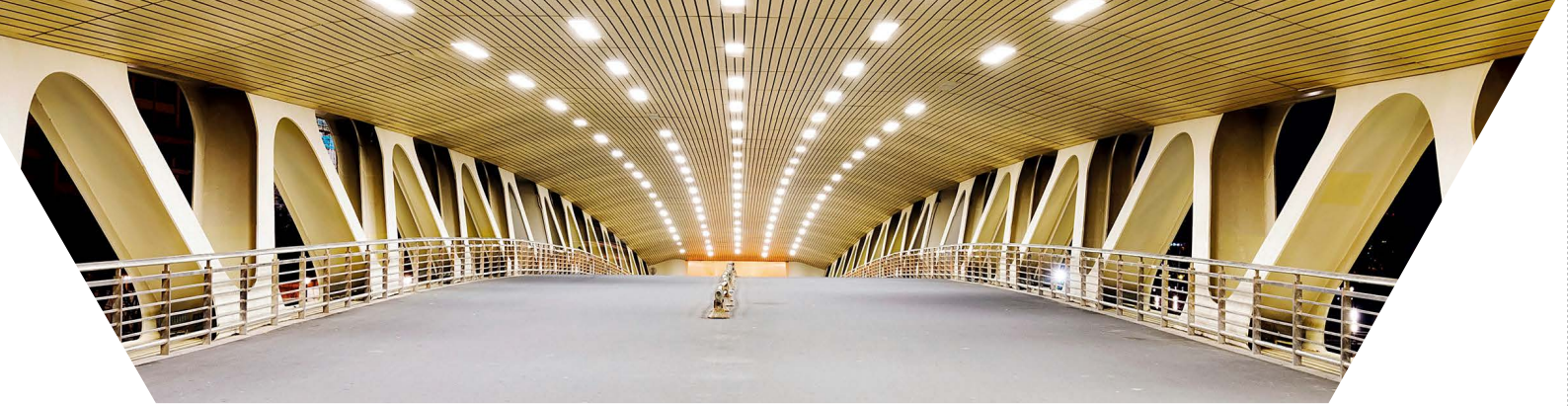
2011. 09. Commendation on Product Safety Day
(Ministry of Knowledge Economy Agency for Technology and Standards)

2000~2009

- 2009. 12.** AVING 'VIP ASIA 2009 Product of the Year' Award (Unibeam near infrared ray sitz bath)
 - 01.** Approval of medical device GMP (Production and quality management standards of pharmaceuticals) by KFDA
- 2008. 07.** Selected as INNOBIZ technology innovation company
 - 06.** VIP ASIA Award (Emergency lighting category)
- 2007. 11.** Grand Prize in Korea Safety (Superior product division)
 - 05.** Grand Prize in Korea Electric Culture (Prime Minister Award)
 - 04.** Academy-Industry Agreement with Seoul National University of Science and Technology
- 2006. 12.** 3rd Prize in 2006Korea Invention Patent Competition
 - 11.** Won the Ministry of Commerce, Industry and Energy Award at the 22nd KyungHyang Electricity & Energy Award
- 2005. 11.** Quality Management System certification of ISO9001 (ITQA)
 - 09.** Certified as High Efficiency Energy Apparatus by Korean Energy Management Corp.
 - 06.** Selected as Superior Product, first in the Emergency Light industry(GQ) by SMBA
- 2004. 12.** The 3rd Korea Safety Grand Prize (Superior Product category)
 - 05.** Won the Ministry of Commerce, Industry and Energy Award at the 7th Korea Electrical Culture Awards
- 2002. 06.** Selected as one of 100 Excellent Patented Product Grand Prize (Korean Intellectual Property Office / Hankook Ilbo)
 - 03.** Recognized as "The Best" product Korea Standards Association
- 2001. 10.** Appointed as Promising Small and Medium Business (SMBA)
 - 06.** Obtained UL mark, the US safety standard
- 2000. 03.** Appointment as venture company (Second time): (SMBA)

1987~1999

- 1999. 05.** Won the Silver Award at the International Exhibition of Inventions of Geneva in Switzerland
 - 03.** Designated as Promising Export Firm by SMAB (No.1999-0246)
- 1998. 12.** Awarded the Director of the Patent and Trademark Office Award at KINPEX (No.1359)
 - 05.** First in the portable lamp industry to receive the Good Quality(GQ) title
 - 04.** Registered as a supplier for Ministry of National Defense
 - 03.** Made an exhibit at Exhibition of Korea Government Procurement
- 1994. 05.** Made an exhibit at Korea Expo in Chicago (selected by Seoul Metropolitan)
- 1993. 02.** Designated as a procurement enterprise for KOICA
- 1992. 05.** Firefighting equipment, chosen by the Seoul Metropolitan
 - 03.** Registered as a government procurement enterprise
- 1991. 11.** Merchandising at Ukraine (KIEV, DONESK, YALTA) for 10 years
 - 04.** Made an exhibit in UKREXOP 90', KIEV – the only Korean product
- 1987. 03.** Foundation of Union Light



KOREA FIRE INSTITUTE

Established in 1977 and renamed as of 2008, it is a national accreditation agency for fire fighting equipment. The main projects are the technical development and research of firefighting facilities and dangerous goods, the management of firefighting facilities and firefighting machinery and equipment, and the commissioning of administrative agencies.

CERTIFICATE & LICENSE



Korean Industrial Standards
7658



CERTIFICATE OF Inno-Biz



ISO 9001



CE



CE



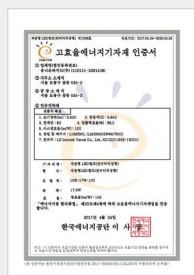
Q-Mark



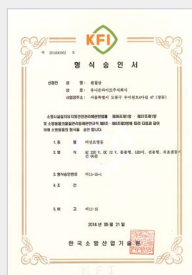
Promising Export
Small and Medium Enterprise



Korea Certification Mark



High efficiency certification



Korea Fire Institute
Certification



Certificate of Patent
NO 10-1844361



Certificate of Patent
NO 10-1875106



Certificate of Patent
NO 10-1794581



Certificate of Patent
NO 10-1816905



Certificate of Patent
NO 10-1542606



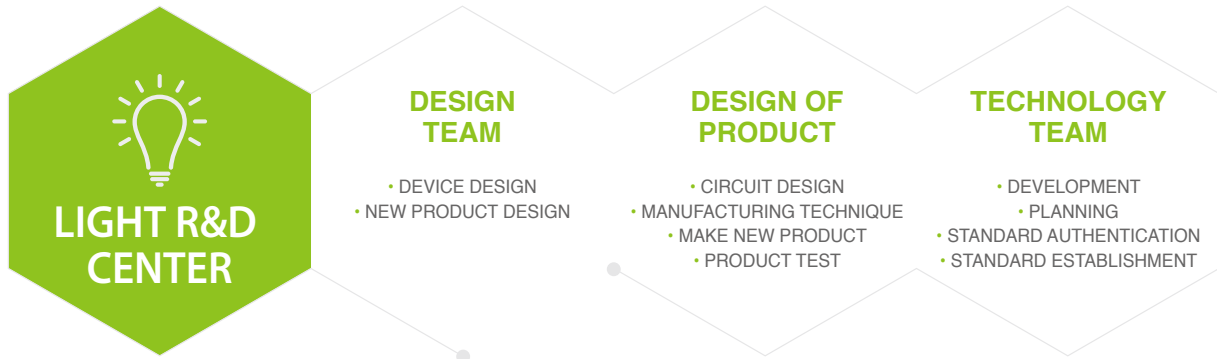
Certificate of Patent
NO 10-1241849



Certificate of Patent
NO 10-1253034



Certificate of Patent
NO 10-1404805



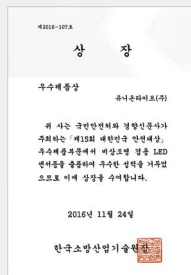
AWARD



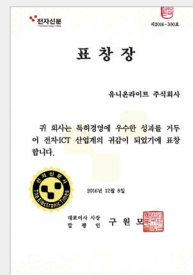
Awarded the Presidential Commendation of Korea Electricity Culture Grand Prize



Ranked 1st in Korea Consumer Satisfaction Index



Awarded the 15th Korea Safety Grand Prize



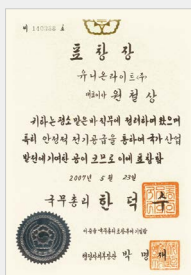
Awarded the silver prize of Patent Management Prize



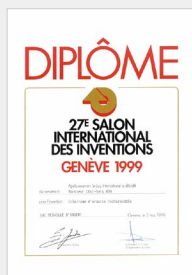
Selected as family friendly excellent company



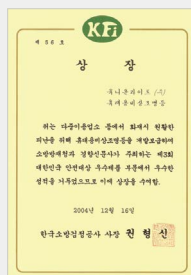
Excellent Performance Certification



Commendation by Prime Minister



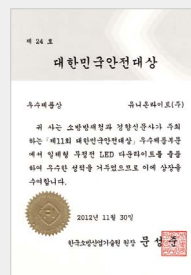
World Invention Award in Geneva, Switzerland in 99



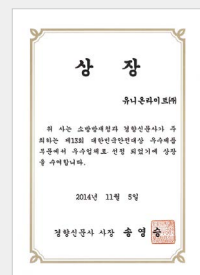
Awarded the 3rd Korea Safety Grand Prize



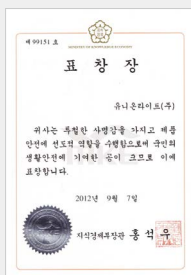
Awarded the 6th Korea Safety Grand Prize



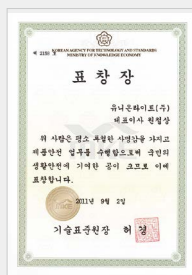
Awarded the 11th Korea Safety Grand Prize



Awarded the 13th Korea Safety Grand Prize



Commendation of Ministry of Knowledge Economy



Commendation of Product Safety Day



Commendation of Minister of Commerce, Industry and Energy



Awarded the 22nd Trend Electricity & Energy Grand Prize



Selected as new intellectual



Awarded the 100 Best Patent Products Prize



EMERGENCY LIGHT

It is the lighting which is installed in the living room or the evacuation passage so that people can safely evacuated in the case of power outage due to a fire. It is a lamp that is automatically switched to the emergency power when the general lighting is turned off in case of fire or emergency.

UNIONLIGHT LED Features



Higher efficiency, Longer life, More beautiful light.
UNIONLIGHT LED lighting is an eco-friendly lighting solution with excellent energy saving effect.



MULTIPLE FUNCTION LED LIGHTING

Normally use it general light, and in case of emergency situation, it automatically turned on emergency light by internal circuit.

USEN-100 / USEN-200 / USEN-300

ULD-610E / ULD-615E

ULED-1240E

ULED-640E



Patent No. 0289508



USEN-100

LED 15W
Only Normal Light

USEN-200

LED 15W, 60min.
AC220V, DC24V

USEN-300

LED 15W, 60min
Smart Function

UNI SENSOR

EMERGENCY LED SENSOR LIGHT

Normally, in case of fire or power outage, the general sensor will be turned on automatically by "Emergency light"



WHAT IS A UNISENSOR?

A built-in sensor that detects the movement of people in dark places, the light is automatically turned on / off in about 30 seconds without any additional switch operation. In particular, Unisensor is an emergency lighting functional sensor that detects power cut due to fire and power outage, and lights up immediately with internal battery to quickly find the exit in case of fire.

Normally

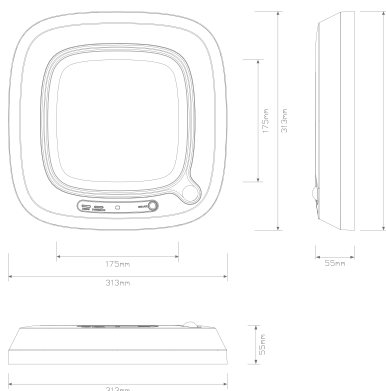
- Always use power : It is used as a sensor that lights up / off automatically for about 30 seconds by detecting human movement without any switch operation.

In emergency

- Automatically switch to emergency lighting when a power failure due to a fire.
- It is installed in the entrance, exit, corridor, stairs and balcony of a building or a house, and lights up for 60 minutes to facilitate evacuation in case of fire.

Product Features

- KFI Type Approval (fire fighting test) products
- All-in-one type of sensor light and emergency light
- The latest high performance sensor module
- Use 15W high-brightness LED
- Emergency power detecting lamp and test switches
- Motion Detection Distance : Within 10m
- Sensor operating time : 30 sec.
- Modern design
- Operating range : 120 °
- Excellent Performance Certification



Product Specifications

Emergency light (AC220V, DC24V, LED type, Protruding type, Combined type, Effective lighting time 60min.)	
Product type	Emergency Sensor Light
Rated input voltage	AC220V/60Hz
Rated input current	0.61A
Rated input power	13W
Weight	1.5Kg
Type	LED type, Protruding type, Combination type
Effective lighting time	60 minutes
Type of light source	White LED 0.5W × 30
Spare power source	Nickel Cadmium 24V / 350mA
Luminous flux standard voltage	22V



ULD-610E / ULD-615E

ULD-610E 10W 60min

ULD-615E 15W 60min

A220V, DC24V, LED Light

Embedded type, Combined type, KFI Certification

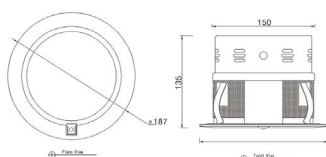
(Normal + Emergency lighting function)

Patent No. 0289508

LED DOWN LIGHT (Easy-to-install integrated)



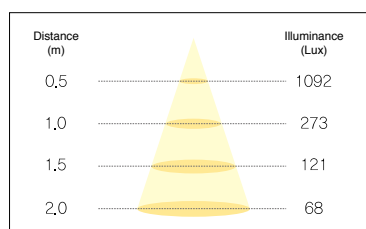
Built-in emergency light function on the top of product



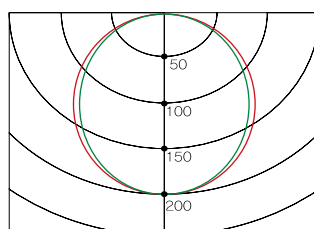
- LED lamp has a high color rendering index and it is effective because it can be used to find a quick evacuation route in the case of emergency.
- It has superior energy efficiency compared to existing luminaires and has a 40 times longer lifetime than fluorescent lights, saving over 30% of electricity.
- Union Light's patented heat dissipation technology minimizes heat generation, eliminates the need for preheating time, and protects your eyesight by instant-on lighting without blinking when turned on or off.
- Reduction of construction cost : All-in-one LED down light is economical because it is easy to construct even in a low ceiling as well as in a small internal space.

Product Features

- Normally used as normal lighting. In case of an emergency or power failure, it is switched to emergency lighting immediately and lights up for up to 1 hours.
- Emergency lighting circuit is integrated on the top of the light for easy installation.
- Illumination will be maintained at 90% of commercial lighting when emergency light is switched on. It does not feel psychological anxiety due to the change in illumination.
- The charging circuit prevents overcharging and overdischarging to keep the battery in good condition.



Direct illumination figure



Light distribution chart

2 Functions in 1 Lighting
(Normal + Emergency Lighting)

Category / Model name	ULD-610E	ULD-615E
Effective lighting time	60 minutes	
Rated voltage	AC220V / 60Hz	
Rated input current	0.064A	0.092A
Rated input power	12w	18w
Type of light source	LED0.2W×72EA	LED0.2W×72EA
Spare power source	Nickel Cadmium 24V/600mA	Nickel Cadmium 24V/600mA
Luminous flux standard voltage & Luminous flux ratio	20V(110%)	20V (90%)
Weight / Size	1.5Kg/187×135 / Perforation size :156	

Light Distribution Number		D-34		
Light Distribution Number Table	Illuminance (Lx)	1		
	Height (m)	2	3	4
	Horizontal distance (m)	3.7	3.8	3.6



ULED-1240E

40W, Ceiling light, 1200x300 (60min),
KFI Certification

EMERGENCY LED FLAT PANEL LIGHT

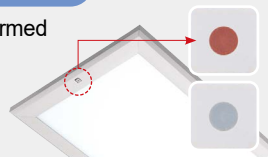


- It is used as a normal lighting. Even after a power outage, it is automatically switched by detection of an internal circuit, and "Emergency lighting" is performed for up to one hour.
- Emergency lighting circuit is integrated on the top of the light for easy installation.
- Illumination will be maintained at 90% of commercial lighting when emergency light is switched on. It does not cause psychological anxiety due to the change in illumination, so it can cope with the situation calmly (general products from other companies : 40% of normal lighting)
- The charging circuit prevents overcharging and overdischarging to keep the battery in good condition. (1/60C (30mA) or less maintained with floating charge after charging)
- KFI Type Approval (fire fighting test) products

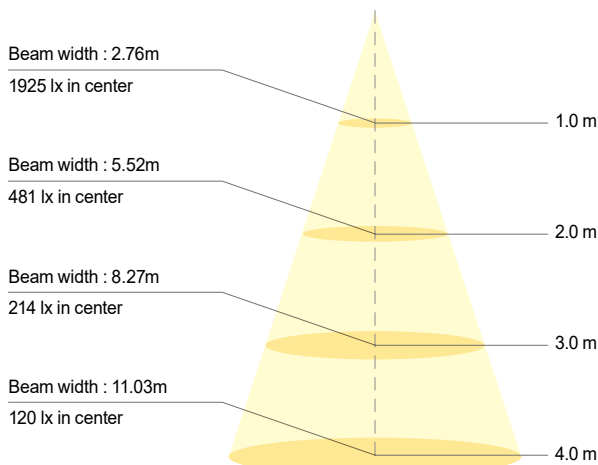
Emergency power supply monitoring lamp and test switch

Lamp color, charging status and abnormal status can be confirmed

- Red lamp On : Abnormal
(charging, battery failure, fuse blown)
- Red lamp Off : Normal



Illuminance Cone Diagram



Beam Angle = 108 deg.
Based on 50% of
maximum illuminance

UNIONLIGHT vs Existing LED



Union light flat panel light

- Emergency lighting product
- All-in-one modern design
- Long life of 50,000 hours
- Brightness equalization



Existing LED

: Interchangeable LED intuition lamp

- Low compatibility
- Indoor lighting and disparate design
- Stabilizer and causes of LED lifetime reduction
- Brightness instability





ULED-640E

40W, Ceiling light, 600x600 (60min),
KFI Certification



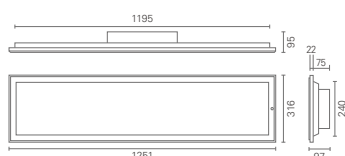
EMERGENCY LED FLAT PANEL LIGHT

Category / Model name	ULED-12SM	ULED-640E
Effective lighting time	60min.	
Rated voltage	AC220V/60	
Rated input current	0.22A	
Rated input power	45W	
Type of light source	LED 0.2W x 240EA	LED 0.2W x 288EA
Spare power source	Nickel Cadmium 12V/1300mAh x 4ea	
Luminous flux standard voltage & Luminous flux ratio	20V (80%)	
Weight	7.1kg	6.6kg
Application	building(inside), School, Office, Corridor, Underpass, Subway station, etc.	

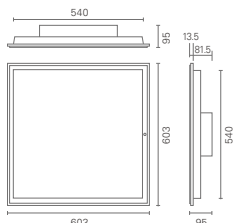
Light distribution number		D-34		
Light distribution number table	Illuminance (Lx)	1		
	Height (m)	2	3	4
	Horizontal distance (m)	3.7	3.8	3.6



ULED-12SM

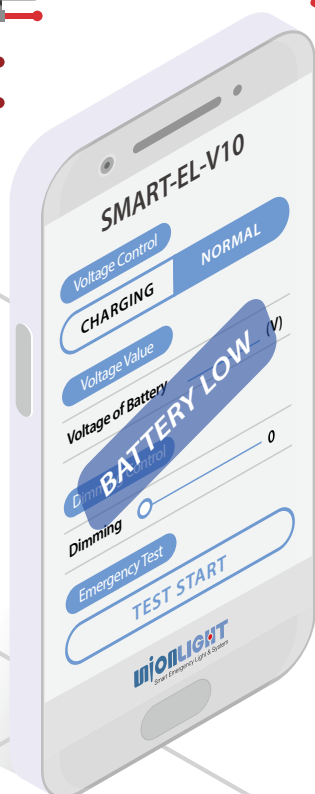


ULED-640E



General-purpose
LED flat panel
light series

ULED-12M (40W) | ULED-12T (40W)
ULED-6M (40W) | ULED-6T (40W)
(No emergency lighting function)



Emergency Light



Emergency Light



Smart phone

SMART EMERGENCY LIGHT



- Improvement of the reliability and effectiveness of the emergency lighting maintenance.
- Smartification of entire safety system which includes equipments for ensuring evacuation routes in case of fire or emergency, fire extinguishing equipments and rescue system.



Fire Control System



Emergency Light



Fire station



Emergency Light



Fire Situations

» Features of Smart Emergency Lights



Electric Circuit Diagnostic function
» Charging / Discharging Control



Time it takes to be out of isolation : Take Several Days
» Dimming Control



Decrease in battery life over time
» Battery-capacity Check



Average height of installed emergency lights : higher than 3 meters (10 ft)
» Wireless Emergency-Test