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ver.25.1



LED lights brighten all sites

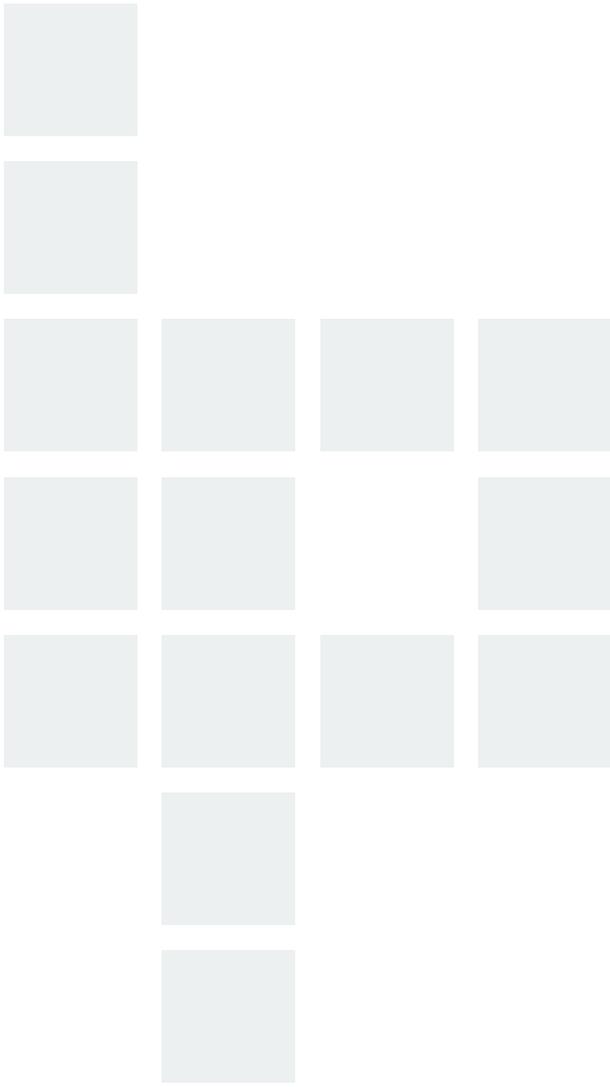


# COMPANY PROFILE

ICEPIPE Corporation



**ICEPIPE**  
www.icepipeLED.com  
We try to be 30% better



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01

# COMPANY OVERVIEW

## CEO'S Message



### Technological innovation & Continual endeavors

We will strive to produce LED lamps with lighter weight and brighter light and secure the world's most advanced technologies in the field of high-output LED lamps. Further, we will continuously develop these technologies and take the lead in resolving issues with resources and energy.

Our management and staff will strive to provide customers with higher energy efficiency products, for value-added solutions utilizing ICEPIPE's technologies.

## Company Vision

“ Based on eco-friendly and innovative technology, Research and develop for the human-centered products ”

### Our Principle

Continuous R&D to pioneer next generation solutions  
Strive to preserve a cleaner and more convenient environment for later generations

### Our Mission



#### 1. Product competitiveness

For higher-level technology

For wider market



#### 2. Quality enhancement

At production process

At Shipment arrange

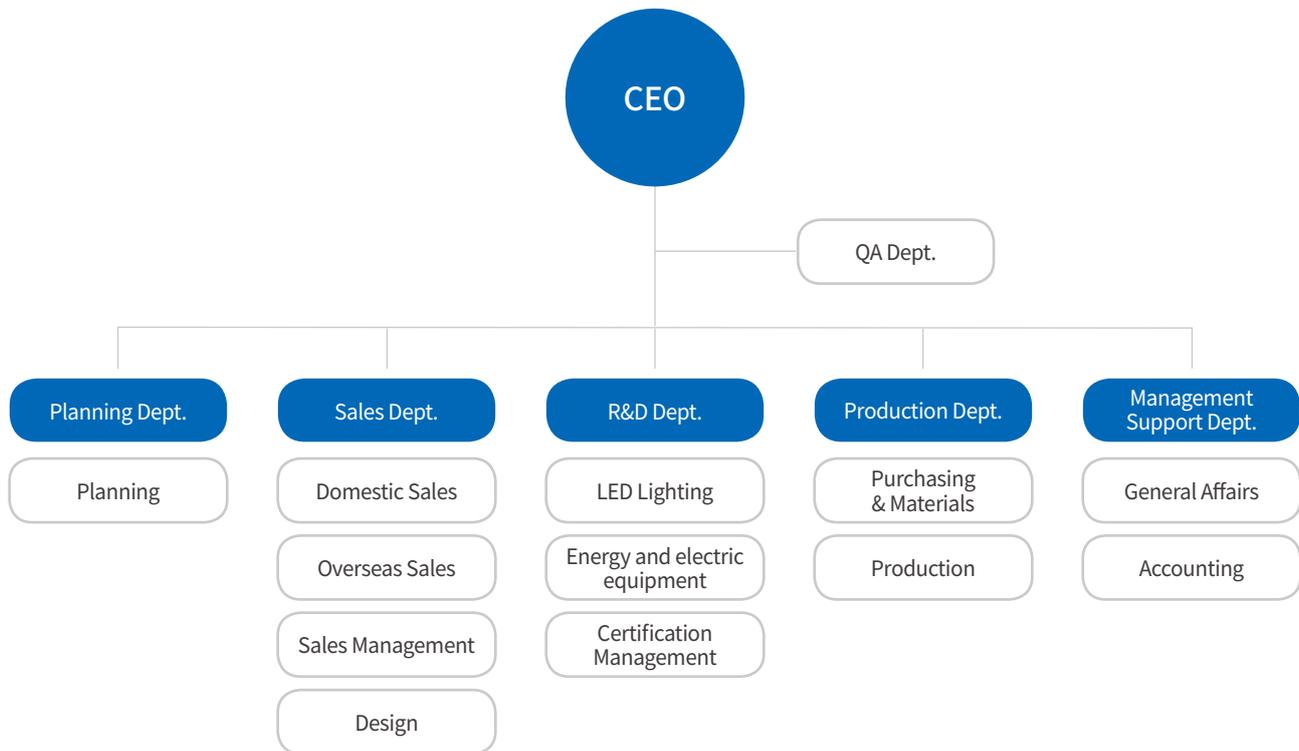


#### 3. Customer satisfaction

Accomplishment & interest at work

Impression at customer experiences

## ■ Organizational Chart



## ■ Company information

Company	ICEPIPE Corporation
Established	August 26, 2010
CEO	S.H. Lee
Address	#1312 Byucksan 6-cha, Gasan Digital 1-ro 219, Geumcheon-gu, Seoul, Republic of Korea 08501
Tel	TEL : 02-861-0010 FAX : 02-2084-9090
Tax ID	119-86-32630
Business	LED Lamp Manufacturing & Sales

# 02 HISTORY

ICEPIPE is leading the development of LED lighting with patented technology and continuous research.



## 2024

- Apr.** New release of external driver type of circular LED flood light NCD(400W) with mechanical coupling to ICEPIPE heatsink
- Feb.** Start of technical review for smart controlled LED bulb OB230D-IOT

## 2023

- Sep.** New release of LED flood light ELP
- Aug.** RCT series registered as Excellent Product in Korea Public Procurement Market

## 2022

- Dec.** New release of chargeable battery type of portable working light IDL 18W
- Jun.** New release of LED flood light NTB-300C
- May.** LED Flood lights with mechanical coupling to ICEPIPE heatsink registered as Excellent Production
- Apr.** New release of external driver type of ultra-high power LED flood light RCT (400,450W/800,900W/1200,1350W) with mechanical coupling to ICEPIPE heatsink

## 2021

- May.** Convention on the "Development and Demonstration of Waste Heat Renewable Thermoelectric Generation System" for the National Energy Management Corporation

## 2020

- Oct.** OB Series (13 models) with Hollow Ventilation Heat Dissipation Technology were registered as Excellent Product in Korea Public Procurement Market  
New release of high output LED lamp OB230c (120W)
- May.** Oscillating Capillary Tube Heat Pipe Pressurized Coupling Technology acquired Green Technology certification
- Jan.** New release of high output LED bulb OB200c

## 2019

- Nov.** OB Series (5 models) with Hollow Ventilation Heat Dissipation Technology were registered as Excellent Production
- Jul.** Hollow Ventilation Heat Dissipation Technology got 'K mark' certification
- Jun.** New release of ultra-high output LED floodlight CTC8010-800W  
Patent for Oscillating Capillary Tube Heatsink Pressurized Coupling Technology
- Jan.** New release of smart LED lamp HB2000 80W & 100W

## 2018

- Jul.** Launched e-Biz management system
- Jun.** Minister's award from South Korean Ministry of Trade, Industry and Energy (MOTIE)
- Apr.** New release of ultra-high output LED flood light with external power, CD4010 300W & 400W
- Jan.** New release of ultra-efficient and high output LED bulb, OB150 & OB230 series

## 2017

- Nov.** New release of modular LED street light DR2000 and tunnel light DT2000
- Aug.** New release of high output LED floodlight with external power, CT8010 600W, 700W
- May.** New release of high output LED bulbs(square type) OBB 60W L+, 80W L+ / OBBc 80W L+
- Feb.** EU Liaison Office established(Germany)

## 2016

- Aug.** Launch of Super High Power LED Flood Light CT8000 700W
- Jun.** Won KOTRA Award for High Output LED Bulb OBB 80W L+ Selected as KICOX Global Leading Company
- Mar.** Selected as G-PASS company by Public Procurement

## 2015

- Dec.** US branch office(ICEPIPE Corp. USA) established
- Sep.** Acquired KS(Korean Standards) Mark for LED Flood light LED lighting CT3000, CH2500 / LED Down light POP200 launched
- Jul.** High Power LED Bulb OBB (60W, 80W), OBM launched
- May.** LED High-bay UR2000/ LED Flood light CD4000 launched
- Mar.** LED Bulb OBB 18W, 25W launched

## 2014

- Dec.** High Power Omni LED Bulb and Ultralight High Power LED Floodlight selected as World class Products of 2014 (OBB / CT2050 / CT2550 / CT5000 / CT8000)
- Nov.** LED Bulb OBA2 / High Power LED Lighting CD800, CD1500 launched
- Jun.** LED Lighting CH2000, CT2000, CT2500 launched
- Mar.** Omni LED Bulb, Winner of the Red Dot Product Design Award 2014 (One of the world's top 3 design awards : Red Dot, iF, IDEA)
- Feb.** LED Downlight POP launched

## 2013

- Nov.** Cheonan (Korea) Factory established
- Oct.** Won KES's the Best New Product Award
- Aug.** Daegu (Korea) Branch Office established
- Jul.** LED Lighting CR2000 150W launched
- May.** Omni LED Bulb launched
- Apr.** Certified for High Energy Efficiency Equipment  
\*LED Street Light 120W, LED Security Light 60W
- Mar.** Designated as Government's Excellent Products  
\*LED Flood Light 400W, 700W

## 2012

- Sep.** Designated as the Products for Government's Obligation Purchase by Korea's Public Procurement Service(PPS)  
\*LED Flood Light 100W, 150W / LED Street Light 150W, 200W / LED Tunnel Light 80W
- Jun.** Acquired KS (Korean Standards) Mark  
\*LED Tunnel Light / LED Street Light
- Apr.** Designated as Excellent Products by Korea's Public Procurement Service(PPS) \*LED Flood Light 100W, 150W, 200W
- Feb.** Acquired NEP(New Excellent Product) Certification (Ministry of Trade, Industry & Energy, Republic of Korea (MKE))

## 2011

- Dec.** Won Korean World-class Product Award from Ministry of Trade, Industry & Energy, Republic of Korea (MKE)  
Acquired High-Efficiency Appliance Certification MIKE / KEMCO (Korean Energy Management Corporation)
- Oct.** Patent for LED Lighting & Display Apparatus registered

## 2010

- Nov.** Established R&D Center
- Nov.** Acquired Quality Management System (ISO 9001:2008 Certification)
- Sep.** Acquired NET(New Excellent Technology Certification Administered by Ministry of Trade, Industry & Energy, Republic of Korea(MKE))
- Aug.** ICEPIPE Corporation founded

## 2009

- Aug.** Patent for Lighting & Display Apparatus with ICEPIPE technology registered
- Apr.** Patent for Heatpipe-type Heat Dissipation Apparatus registered

## 2008

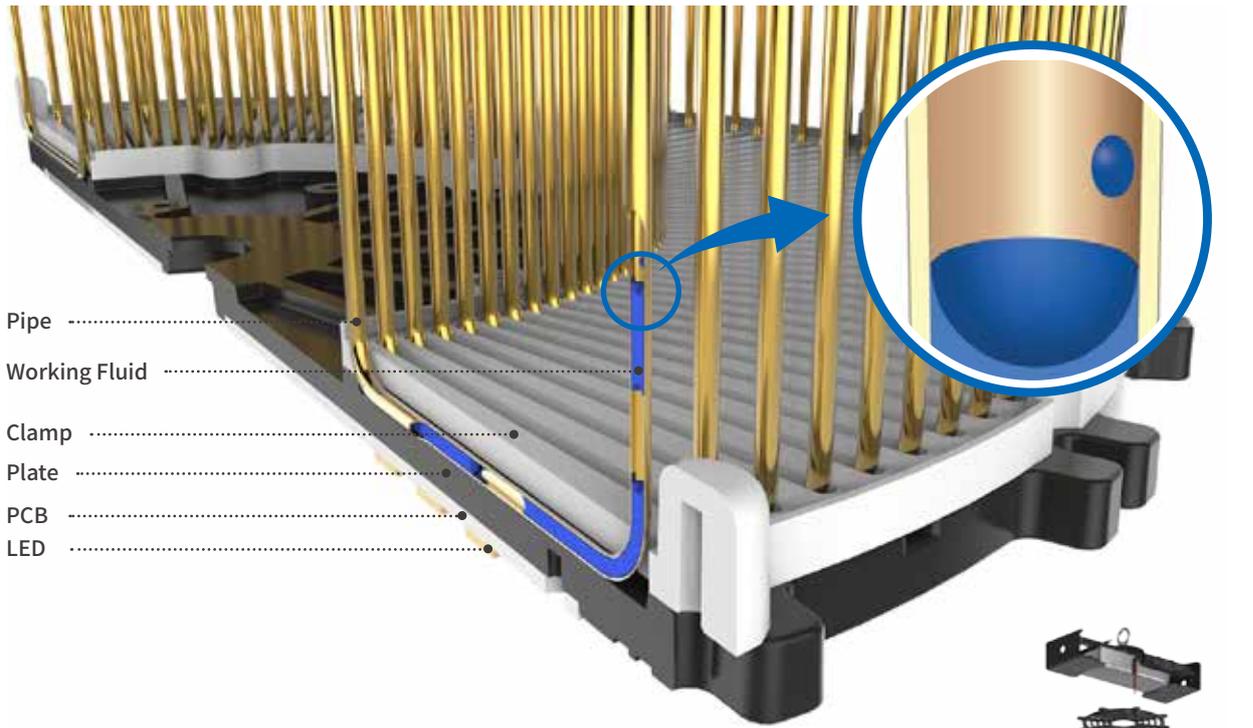
- Aug.** Design Patent for Heat Dissipation Apparatus registered

## 2007

- Jan.** ICEPIPE research began

# 03 TECHNOLOGY

## ■ FDP Fluid Dynamic Pressure Technology



Pipe .....  
 Working Fluid .....  
 Clamp .....  
 Plate .....  
 PCB .....  
 LED .....

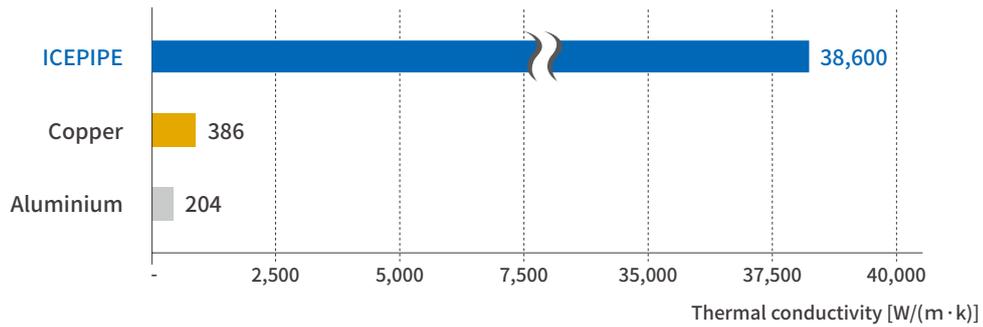


**Patent technology of ICEPIPE**  
**-Improved heat dissipation**  
**by fast heat transfer using FDP**

- The fastest heat transfer rate by excellent air flow
- Sufficient heat dissipation area
- ICEPIPE's thermal conductivity = 40,000 W/m · K
- Less raw materials used reducing the weight and production cost

## Heat Transfer Rate Comparison

Heat transfer rate of ICEPIPE heat sink is 200 times higher than the one of Aluminium.



## VTWM (Value of Thermal resistance Weight) Multiplier

LED lighting with VTWM below 1 signifies minimization of weight and temperature.

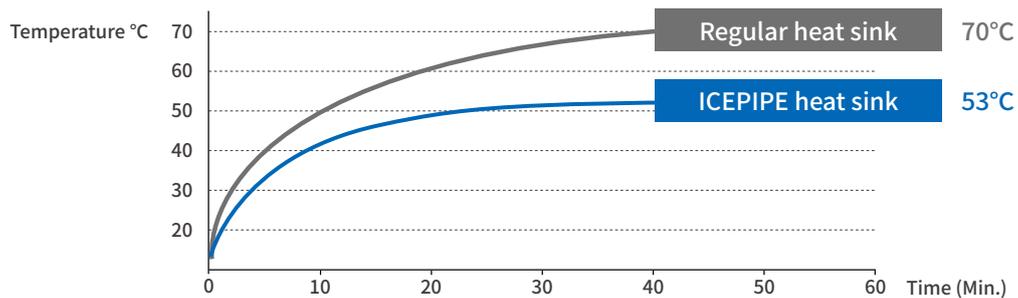


$$V_{TWM} = \frac{T_m (^\circ\text{C}) \times H_w (\text{kgf})}{P (\text{W})} < 1$$

- $T_m(^\circ\text{C})$  : LED PCB Temp
- $H_w(\text{kgf})$  : Weight of heat sink
- $P(\text{W})$  : LED luminaire's total power consumption

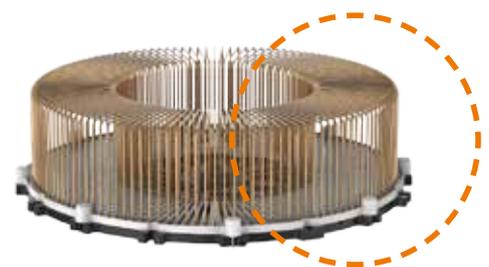
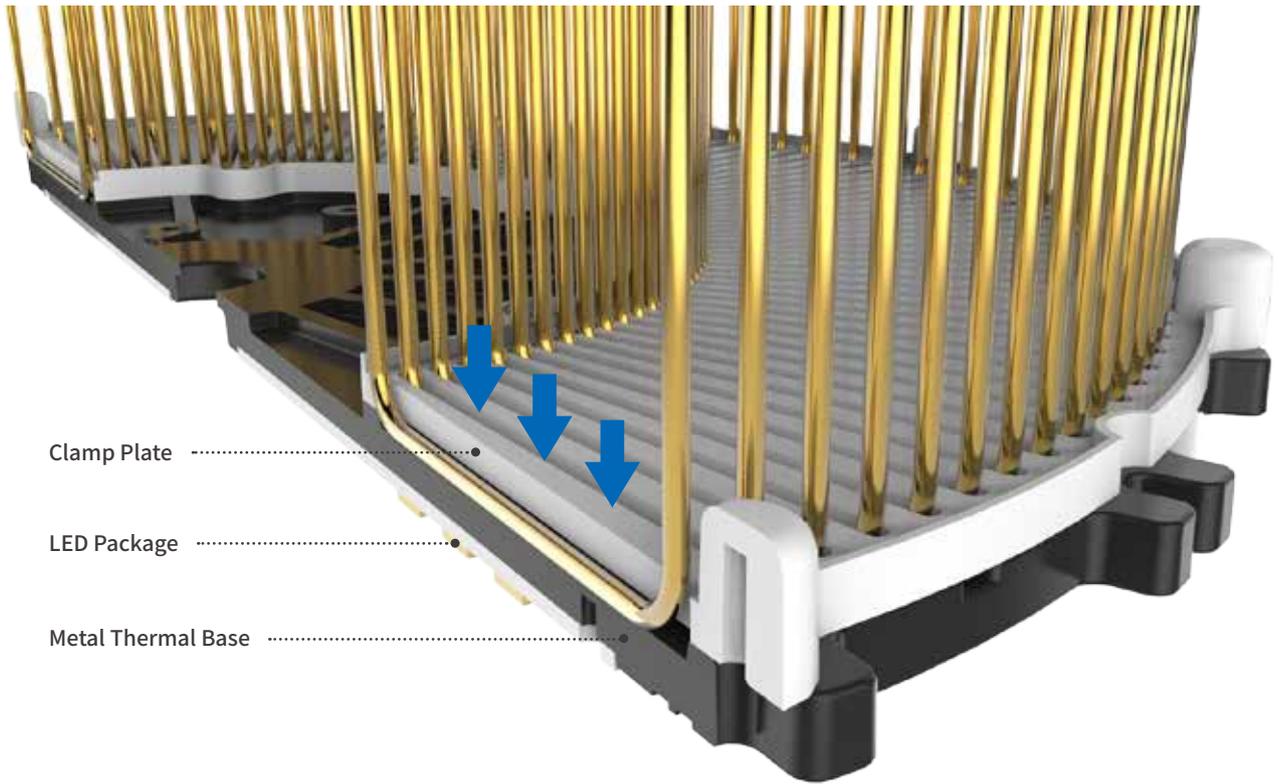
## Temperature Comparison

ICEPIPE's world-class technology dramatically reduces LED temperature.



- Ambient Temperature : 24 °C
- Test Samples : Same volume heat sinks of ICEPIPE and its competitors.

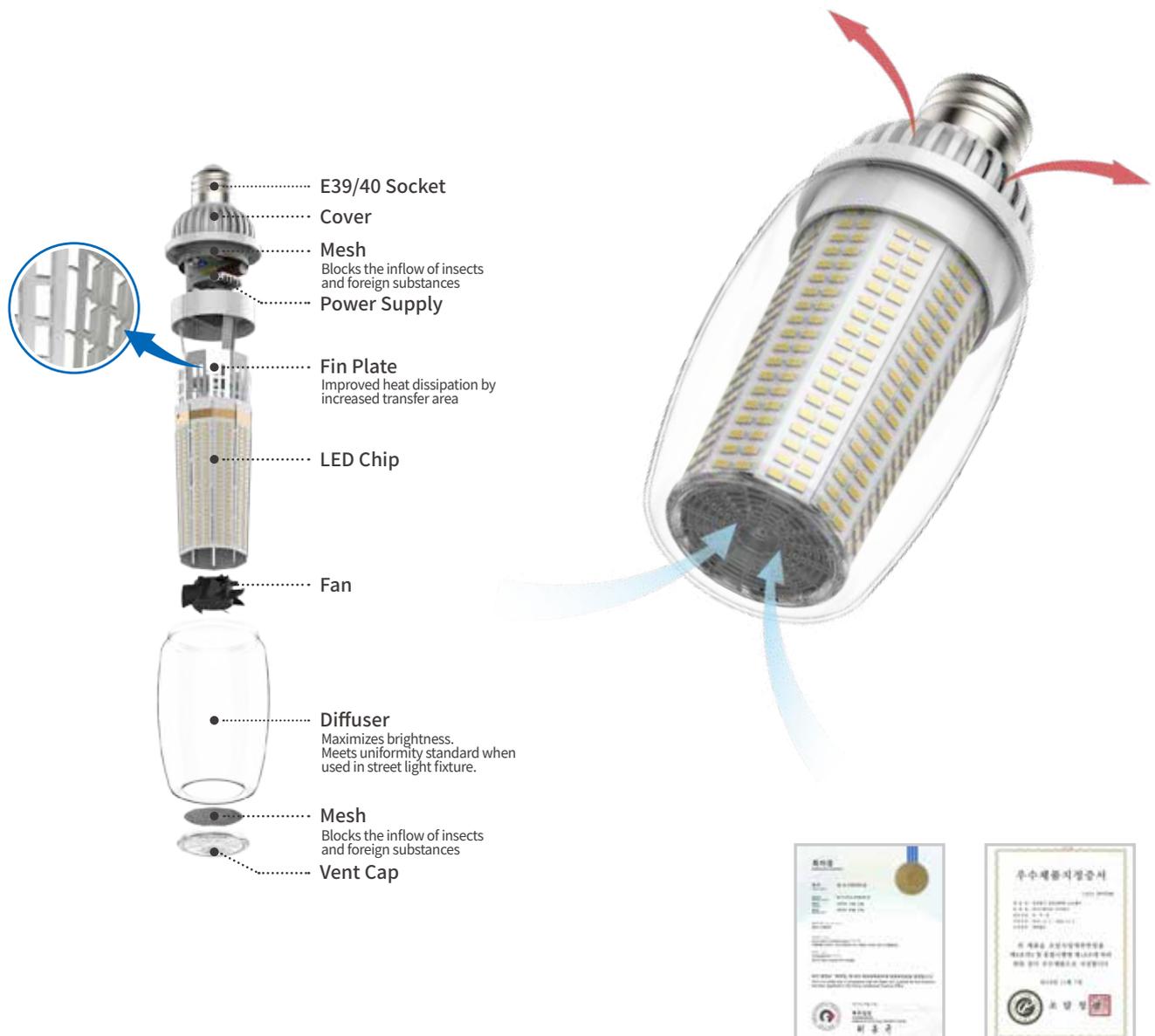
## ■ Clamping Technology



**Unique heat dissipation technology using directional and elastic clamps**

- Mechanical coupling to use oscillating capillary tube heatsink as heat dissipation material
- Mechanical bonding of heating part and heatsink made excellent durability
- Pressurized assembly by using elastic deformation of clamp
- Better heat dissipation and raw material usage compared to old bonding method

## ■ Hollow Ventilation Heat Dissipation Technology



**Patented hollow ventilation structure improved air-cooling heat dissipation**

- The folded LED PCB in angles creates better air flow inside the passage
- Fin Plate attached on the back side of LED PCB strengthens its heat dissipation
- Air-breathe into the PCB hollow through FAN maximized the heat dissipation performance
- Usable with various lighting fixture in wide range of sites.
- Compliant with industrial standards such as structural, electrical, optical characteristics, drop, temperature test, factory inspection, etc.

# 04 PRODUCT

## Category

### High Bay

Ultra light LED lamp with compact design. Optimized for indoor factory, warehouse. Easy maintenance.

### Flood Light

High power LED floodlight, optimized for outdoor use with free installation angle and waterproof.

### Bulb

Ultralight LED bulb with high efficiency. Excellent design with wide beam angle(330°).

## Product Features

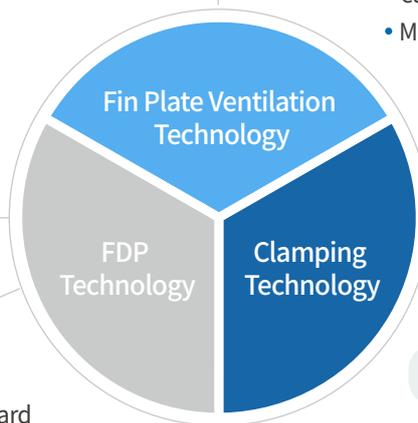
### Glare Prevention

- Glare prevention and various beam angle by cover options and accessories
- Clear(90°), Diffuser(97°), Dome Diffuser(130°), Reflector(65°)
- Optional lens available(15°, 20°, 30°, 45°, 60°)



### Light & Compact

- Compact size with 1/5 weight of conventional LED lamp
- Ultralight and compact lamp which enables easy and convenient installation
- Maintenance time and cost saving



### Eco-Friendly

- Eco-friendly lamp based on RoHS standard
- Harmless-Mercury, lead, and UV free

### High Efficiency

- High Efficiency LED lamp with ultra-high luminous efficacy up to 160 lm/W
- Electricity cost saving up to maximum 75%
- Provides optimal lighting conditions with minimum illumination

### High Quality

- Based on Global Standard. Various certifications acquired such as KC, KS, High-efficiency Appliance certification, eco-label, UL, DLC, ETL, CE, CB, PSE
- More than 50 quality inspection systems

## ■ Product List

High Bay



**HB2000**

80W	150 lm/W	12,000 lm
100W	150 lm/W	15,000 lm

High Bay



**HB2200**

130W	150 lm/W	19,500 lm
150W	150 lm/W	22,500 lm

High Bay



**HB2010** External Driver

60W	150 lm/W	9,000 lm
80W	150 lm/W	12,000 lm
100W	150 lm/W	15,000 lm

High Bay



**HB2210 HB221D** External Driver

130W	150 lm/W	19,500 lm
150W	150 lm/W	22,500 lm

High Bay



**HB2510** External Driver

200W	140 lm/W	28,000 lm
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Flood Light



**HB2000**

80W	150 lm/W	12,000 lm
100W	150 lm/W	15,000 lm

Flood Light



**HB2200**

130W	150 lm/W	19,500 lm
150W	150 lm/W	22,500 lm

Flood Light



**HB2010** External Driver

60W	150 lm/W	9,000 lm
80W	150 lm/W	12,000 lm
100W	150 lm/W	15,000 lm

Flood Light



**HB2210 HB221D** External Driver

130W	150 lm/W	19,500 lm
150W	150 lm/W	22,500 lm

Flood Light



**HB2510** External Driver

200W	140 lm/W	28,000 lm
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Flood Light



**NTB** External Driver

130W	145 lm/W	18,850 lm
150W	145 lm/W	21,750 lm

Flood Light



**NTB** External Driver

130W ©	140 lm/W	18,200 lm
150W ©	140 lm/W	21,000 lm

Flood Light



**NTB** External Driver

300W ©	140 lm/W	42,000 lm
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Flood Light



**NCD** External Driver

400W	140 lm/W	56,000 lm
400W ©	150 lm/W	60,000 lm

Flood Light



**RCT** External Driver

400W	145 lm/W	58,000 lm
450W	145 lm/W	65,250 lm

Flood Light



**RCT** External Driver

400W ©	140 lm/W	56,000 lm
450W ©	140 lm/W	63,000 lm

Flood Light



**RCT** External Driver

800W Ⓐ	115 lm/W	92,000 lm
800W ©	140 lm/W	112,000 lm
900W ©	140 lm/W	126,000 lm

Flood Light



**RCT** External Driver

1200W Ⓐ	115 lm/W	138,000 lm
1200W ©	140 lm/W	168,000 lm
1350W ©	140 lm/W	189,000 lm

Bulb



**OB150N**

30W	135 lm/W	4,050 lm
35W	135 lm/W	4,725 lm

Bulb



**OB150Nc**

30W	150 lm/W	4,500 lm
35W	150 lm/W	5,250 lm

Bulb



**OB200**

40W	145 lm/W	5,800 lm
50W	145 lm/W	7,250 lm
60W	140 lm/W	8,400 lm
80W	145 lm/W	11,600 lm

Bulb



**OB200c**

40W	153 lm/W	6,120 lm
50W	150 lm/W	7,500 lm
60W	150 lm/W	9,000 lm
80W	155 lm/W	12,400 lm

Bulb



**OB230**

100W	135 lm/W	13,500 lm
120W	140 lm/W	16,800 lm

Bulb



**OB230c**

100W	145 lm/W	14,500 lm
120W	150 lm/W	18,000 lm

# 05 AWARD

2022.05

## Excellent Procurement Product KH2-80S and 3 others

LED Flood light KH Sereis (KH22-150S-57K, KH22-130S-57K, KH2-100S-57K, KH2-80S-57K) with mechanical coupling to use oscillating capillary tube heatsink as heat dissipation material which ICEPIPE have independently developed, were registered as Excellent Procurement Product. This patented technology which ICEPIPE R&D have designed, have achieved the best of both performance improvement and material save by applying the method optimized “ICEPIPE” heat sink for LED flood lighting.

In practice, this patented technology have been acquired “Green technology” in May 2020, with recognition of eco-friendly based on durability(long-life span) and effect of carbon emission reduction. Furthermore, LED flood lightings including KH series, were acquired Eco-Label and High-efficiency Appliance Certification by using eco-friendly materials and improving luminous efficiency.



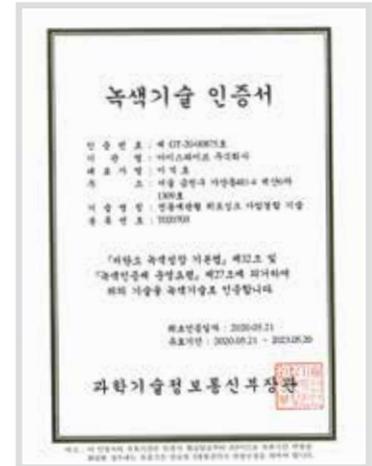
2020.05

IH2-80S and 3 others

## Green Technology certification acquired by the Ministry of Science and ICT.

Green Technology means greenhouse gas reduction, energy use efficiency, clean production, and clean energy technology. It's the effort to minimize greenhouse gas and pollutant emissions, by saving resources and using efficiently throughout the entire process of socio-economic activities such as resource recycling and eco-friendly technology.

Oscillating Capillary Tube Heat Pipe Pressurized Coupling Technology improved heat transfer by using elastic strain of clamp and mechanical bonding of heat sink. It lowered LED package temperature about 15°C compared to epoxy bonding. Green Technology certification has been acquired based on the results of reducing 437g of CO2 emissions per product, and contributing green growth.



2019.11

5 OB series



## Excellent Procurement Product

On 20 Nov. 2019, Public Procurement Service excellent product certificate awards was held. ICEPIPE, one of the leading LED lighting company, attended the ceremony, because 5 OB series with self-developed hollow ventilated heat dissipation technology have been designated.

The OB series, designated as an excellent procurement product, was applied with a patented hollow ventilated heat dissipation technology. Its excellent performance has been certified with Eco-Label, K-Mark, Energy Efficiency Level 1.



2018.06

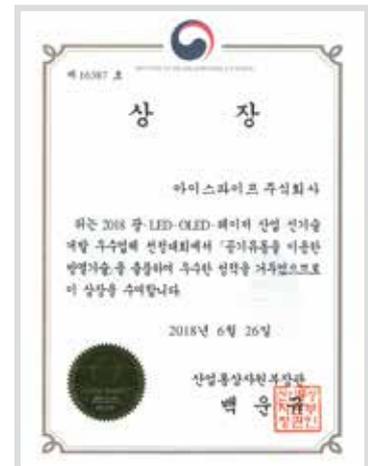
High Output LED Bulb OB230c



## Minister's award from South Korean Ministry of Trade, Industry and Energy (MOTIE)

ICEPIPE announced of receiving Minister's award from Ministry of Trade, Industry and Energy (MOTIE) as an Innovative Technology Development Company at LED & OLED EXPO 2018 in KINTEX.

ICEPIPE was awarded for its LED bulb 'OB230c 100W L+'. The PCB (Printed Circuit Board) is designed as a polyprism. Center tunnel and fan facilitate air flow within PCB. ICEPIPE explains that sufficient heat dissipation is possible without a heatsink, naturally cooling the heat from LED chips.



2016.06

High Output LED Bulb, OBB-80W L+



## KOTRA Award by Korea Trade-Investment Promotion Agency (KOTRA)

International LED & OLED EXPO 2016 is the nation's largest LED exhibition. LED & OLED Industry New Technology Company Award was held for new technologies that contributed to the rearing and development of light, LED/OLED and LASER industry.

Companies with excellent products are selected as being assessed for the innovativeness and completeness of product technology. ICEPIPE was given the KOTRA Award for Korea's sole 80W OBB-80W L+ LED bulb.



2016.06

## Selected as the Global Leading Company by Korea Industrial Complex Corporation (KICOX)

‘Global Leading Company’ is for mid-sized companies as a prospective enterprise, with export scale of more than USD 30million and above 5% for the ratio of R&D investment to sales.

From the total revenue of KRW 16.2billion in 2015, ICEPIPE exported KRW 6.3billion. Approximately 40% of ICEPIPE’s employees works for R&D and has been constantly researching and developing new high output and ultralight LED products since its founding.



2016.03

## Global Procurement Market Export Company (G-PASS Enterprise)



G-PASS is a form of support from the Public Procurement Service for efficient exports to global procurement market, and also as a comprehensive evaluation for new technology, reliability and the capacity of overseas exportation.

If appointed as a G-PASS Enterprise, companies are able to participate in international exhibitions held by the Public Procurement Service and market development group, make good use of Global Procurement Assistance and receive a variety of services.



2014.03

Omni LED Bulb



## Red Dot design award Winner Omni LED Bulb

ICEPIPE’s Omni LED bulb series is awarded Winner of the Red Dot Award: Product Design.

Its award, the Red Dot, is one of the three most popular design awards, along with IDEA and iF, and internationally recognized for its prizes for high design quality. Only the best products receive the Red Dot. The international jury awarded this sought-after seal of quality to Omni LED bulb series as it sets itself apart significantly from comparable projects thanks to the excellent design.





## World Class Products

World Class Products are supervised by KOTRA and MOTIE and both of them select and support the corporations which make the products ranked within 5% of the global market share or the items (Next Generation World Class Products) that can be entered in the rank within 5 years.

2014.12

### products consecutively selected as 'World Class Products'

Ultralight High Output LED Flood light



High Output Omni LED Bulb



2011.12

### products consecutively selected as 'World Class Products'

LED High Bay



Certificate Exclusive to the World Class New Technologies from Korea by Ministry of Trade, Industry, and Energy.

- By incorporating FDP(Fluid Dynamic Pressure) Heat sink that utilized natural air convection, It has excellent heat dissipation and heat transfer ability.
- Product's weight and size is 1/4 of other products .
- Lighter weight, higher stability.
- Competitive pricing with less materials used.

2013.10

## Share 2013 KES Award for the Best New Product



**KES** Korea Electronics Show

On October 7th, 2013, ICEPIPE's CR2000 series was awarded Best New Product at the 2013 KES Innovation Awards alongside with Samsung's Curved OLED TV, under the administration of Korea Electronic Association.

ICEPIPE's products already have been designated as the New Excellent Product (NEP) by Korea's Ministry of Trade, Industry & Energy, and registered as Korea's Public Procurement Service's priority purchase product.

The CR2000 series has 10 times longer lifespan compared to conventional lamps and save \$229 electricity cost annually (American Standard, 10.47cm/kWh; 24hrs/365days). Heat dissipating system which equipped on CR2000 is only 25% weight and 120% performance of the conventional aluminum one. Also, it is easy to install with its 39/40 screw base socket with the weight of under 1.7kg.



2012.02

## New Excellent Product Certificate



A government certification program for technology, business strategy, functionality and quality of the products developed by domestic corporations, research institutes or universities.

NEP as well as NET acknowledge new domestic technologies or new products so that they can use the relevant ministries' incentives and open up the new market channels for certified products.



### Certified Products

#### Heat-Pipe typed Heat Dissipating Equipment for LED lamps

- The world's first FDP(Fluid Dynamic Pressure)applied heat sink.
- Heat transfer rate is 200 times faster than Aluminium, weighs only 25% of existing heat sink, but 120% better in heat dissipation ability.
- It costs only 20~30% of existing Aluminium heat dissipation unit.

# 06 EXHIBITION

## ■ Exhibitions

2023	
06.21 ~ 06.23	International LED & OLED EXPO 2023, KINTEX
2022	
05.18 ~ 05.20	International Electric Power Tech Korea 2022, COEX
2019	
06.25 ~ 06.27	International LED & OLED EXPO 2019, KINTEX
03.05 ~ 03.08	Lighting Fair 2019, Tokyo
2018	
10.27 ~ 10.30	Hong Kong International Lighting Fair(AE) 2018
10.17 ~ 10.18	Light Show West 2018, USA
09.12 ~ 09.16	Defense Expo Korea 2018, KINTEX
08.26 ~ 08.29	APWA 2018 PWX, USA
06.26 ~ 06.28	International LED & OLED EXPO 2018, KINTEX
03.18 ~ 03.23	Light + Building 2018, Germany

2017	
10.27 ~ 10.30	Hong Kong International Lighting Fair(AE) 2017
10.08 ~ 10.12	GITEX TECHNOLOGY WEEK 2017, UAE
06.27 ~ 06.28	Public Sector Show London, UK
06.27 ~ 06.29	International LED & OLED EXPO 2017, KINTEX
04.19 ~ 04.21	Korea Public Procurement Expo 2017
2016	
09.22 ~ 09.24	GREEN PHILIPPINES 2016, Philippines
06.22 ~ 06.25	International LED & OLED EXPO 2016, KINTEX
03.13 ~ 03.18	Light + Building 2016, Germany
03.01 ~ 03.03	Strategies in Light / THE LED SHOW, CA
02.24 ~ 02.26	ELA. EXPO LIGHTING AMERICA 2016, Mexico
2015	
11.17 ~ 11.21	2015 Energy Korea, KINTEX
10.27 ~ 10.30	Hong Kong International Lighting Fair(AE) 2015
10.21 ~ 10.22	2015 Lightshow west, LA
10.14 ~ 10.17	Korea Electronics Show, KINTEX
10.07 ~ 10.10	INDO LED & LIGHTING EXPO 2015, Indonesia
06.23 ~ 06.26	International LED & OLED EXPO 2015, KINTEX
2014	
10.27 ~ 10.30	Hong Kong International Lighting Fair(AE) 2014
10.21 ~ 10.22	International LED & OLED EXPO 2014, KINTEX
03.30 ~ 04.04	Light + Building 2014, Germany
2013	
10.27 ~ 10.30	Hong Kong International Lighting Fair(AE) 2013
10.07 ~ 10.10	Korea Electronics Show 2013, KINTEX
06.25 ~ 06.28	International LED & OLED EXPO 2013, KINTEX
06.09 ~ 06.12	Guangzhou International Lighting Exhibition 2013
05.06 ~ 05.09	Project Qatar 2013
03.05 ~ 03.08	Lighting Fair 2013, Tokyo

## Awards



**Minister's award from South Korean Ministry of Trade, Industry and Energy(MOTIE)**

- Date : 26 Jun. 2018
- Exhibition : International LED & OLED EXPO 2018, KINTEX
- Product : LED bulb OB230c-100W



**KOTRA Award by Korea Trade-Investment Promotion Agency**

- Date : 22 Jun. 2016
- Exhibition : International LED & OLED EXPO 2016, KINTEX
- Product : LED bulb OBB-80W L+



**Share 2013 KES Award for the Best New Product**

- Date : 7 Oct. 2013
- Exhibition : Korea Electronics Show 2013, KINTEX
- Product : LED lamp CR2000

## Photos

**International LED & OLED EXPO 2023, KINTEX**  
2023. 06.21. ~ 06.23.



**International LED & OLED EXPO 2019, KINTEX**  
2019. 06. 25. ~ 06. 27.



**International Electric Power Tech Korea 2022, COEX**  
2022. 05.18. ~ 05. 20.



**Lighting Fair 2019, Tokyo**  
2019. 03. 05. ~ 03. 08.



### Hong Kong International Lighting Fair(AE) 2018

2018. 10. 27. ~ 10. 30.



### Hong Kong International Lighting Fair(AE) 2018

2018. 10. 27. ~ 10. 30.



### Light Show West 2018, USA

2018. 10. 17. ~ 10. 18.



### Defense Expo Korea 2018, KINTEX

2018. 09. 12. ~ 09. 16.



### APWA 2018 PWX, USA

2018. 08. 26. ~ 08. 29.



### International LED & OLED EXPO 2018, KINTEX

2018. 06. 26. ~ 06. 28.



### Light + Building 2018, Germany

2018. 03. 18. ~ 03. 23.



### Hong Kong International Lighting Fair(AE) 2017

2017. 10. 27. ~ 10. 30.



**GITEX TECHNOLOGY WEEK 2017, UAE**

2017. 10. 08. ~ 10. 12.



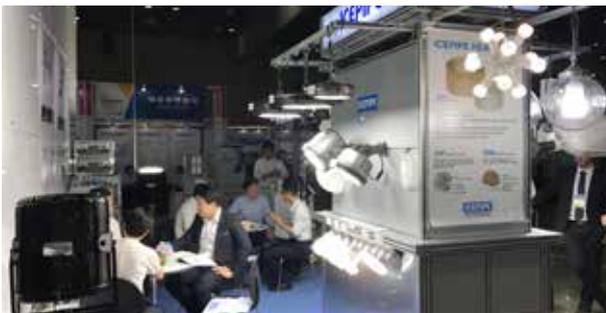
**Public Sector Show London, UK**

2017. 06. 27. ~ 06. 28.



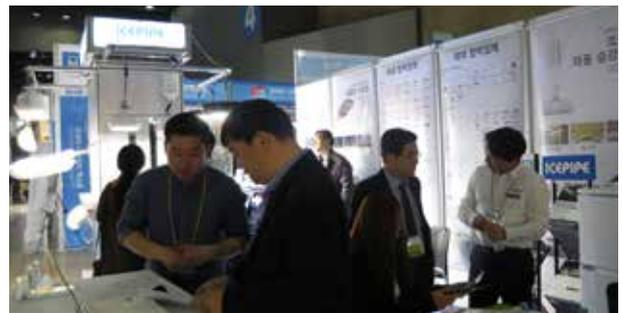
**International LED & OLED EXPO 2017, KINTEX**

2017. 06. 27. ~ 06. 29.



**Korea Public Procurement Expo 2017**

2017. 04. 19. ~ 04. 21.



**GREEN PHILIPPINES 2016, Philippines**

2016. 09. 22. ~ 09. 24.



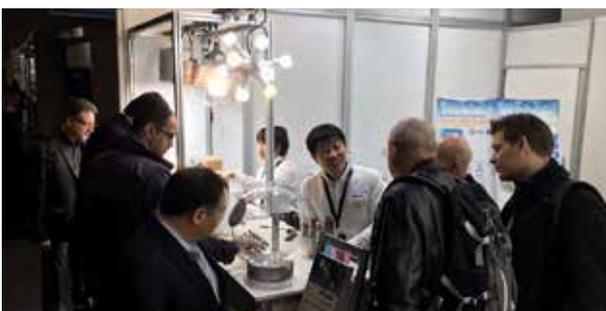
**International LED & OLED EXPO 2016, KINTEX**

2016. 06. 22. ~ 06. 25.



**Light + Building 2016, Germany**

2016. 03. 13. ~ 03. 18.



**Strategies in Light / THE LED SHOW, CA**

2016. 03. 01. ~ 03. 03.



**ELA. EXPO LIGHTING AMERICA 2016, Mexico**

2016. 02. 24. ~ 02. 26.



**2015 Energy Korea, KINTEX**

2015. 11. 17. ~ 11. 21.



**Hong Kong International Lighting Fair(AE) 2015**

2015. 10. 27. ~ 10. 30.



**2015 Lightshow west, LA**

2015. 10. 21. ~ 10. 22.



**Korea Electronics Show, KINTEX**

2015. 10. 14. ~ 10. 17.



**INDO LED & LIGHTING EXPO 2015, Indonesia**

2015. 10. 07. ~ 10. 10.



**International LED & OLED EXPO 2015, KINTEX**

2015. 06. 23. ~ 06. 26.



**Hong Kong International Lighting Fair(AE) 2014**

2014. 10. 27. ~ 10. 30.



**International LED & OLED EXPO 2014, KINTEX**  
2014. 10. 21. ~ 10. 22.



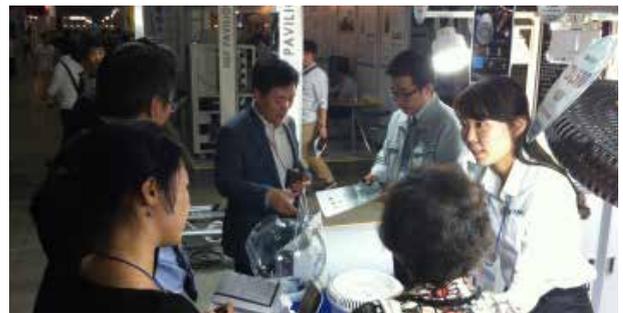
**Light + Building 2014, Germany**  
2014. 03. 30. ~ 04. 04.



**Hong Kong International Lighting Fair(AE) 2013**  
2013. 10. 27. ~ 10. 30.



**Korea Electronics Show 2013, KINTEX**  
2013. 10. 07. ~ 10. 10.



**International LED & OLED EXPO 2013, KINTEX**  
2013. 06. 25. ~ 06. 28.



**Guangzhou International Lighting Exhibition 2013**  
2013. 06. 09. ~ 06. 12.



**Project Qatar 2013**  
2013. 05. 06. ~ 05. 09.



**Lighting Fair 2013, Tokyo**  
2013. 03. 05. ~ 03. 08.



07

# APPLICATIONS

## Overseas Applications

### Shopping mall, Qatar

Product : CR2000-80W



### H mart, The United States

Product : CR2000-80W



### University, Hong Kong

Product : HB2000-80G (CH2000-80W)



### Hotel casino, Japan

Product : HB2000-80G (CH2000-80W)



### Supermarket, Israel

Product : CR2000-80W



### Factory, Spain

Product : CR2000-100W



Please visit our website([www.icepipeLED.com](http://www.icepipeLED.com))for more applications.

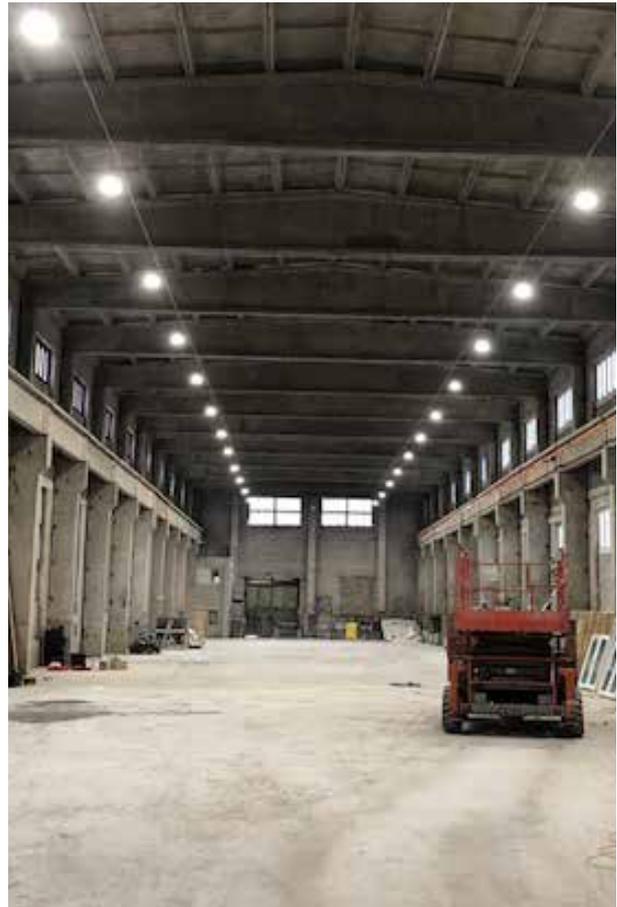
### Warehouse, Italy

Product : HB2000-100G (CH2000-100W)



### Metal factory, Lithuania

Product : HB2200-130G (CH2000-130H)



### Car factory, Japan

Product : UR2050-110W L2+



### MTR(Mass Transit Railway), Hong Kong

Product : HB2200-130G (CH2000-130W L+)



### Car dealership, Mexico

Product : HB2200-130G (CH2000-130W)



### Warehouse, Mexico

Product : HB2200-130G (CH2000-130W)



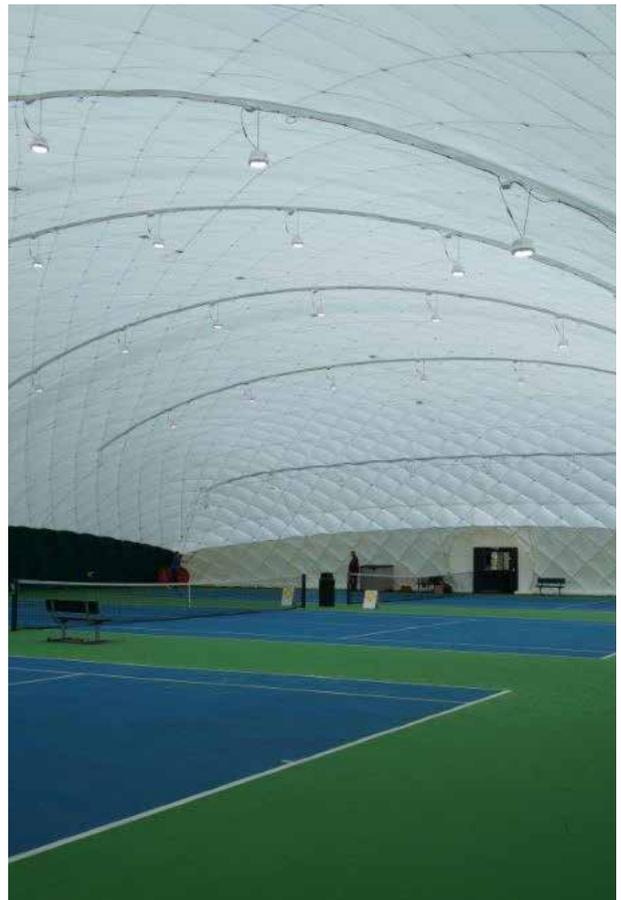
### Oil factory, Hong Kong

Product : HB2200-130G (CH2000-130W L+)



### Indoor tennis court, UK

Product : HB2200-130G (CH2000-130W L+)



### Horseback riding course, the Philippines

Product : HB2200-130G (CH2000-130W)



### Indoor tennis court, Netherlands

Product : CR2000-130W L+



### Indoor soccer practice facility, Netherlands

Product: CR2000-130W L+



Please visit our website([www.icepipeLED.com](http://www.icepipeLED.com))for more applications.

### University Library, Israel

Product : CR2000-130W L+



### Factory in Beijing, China

Product : CR2000-130W L+



### Warehouse, Peru

Product : HB2200-150G (CH2500-200W)



### Gymnasium, Spain

Product: HB2200-150G (CH2500-200W)



### Swimming pool, Israel

Product : HB2200-150G (CT2550-150W)



### Gas station, Japan

Product : CD1500-100W



### Parking lot in Guadalajara, Mexico

Product : CD1500-100W



### Parking lot in Kyoto, Japan

Product : CD1500-100W



### Softball court, The Philippines

Product : HB2200-130G (CT2500-130W)



### Sports center in Sendai, Japan

Product : HB2200-150G (CT3050-180W)



### Tennis club in Tokyo, Japan

Product : HB2200-150G (CT2500-150W)



### Indoor pool, Israel

Product : HB2200-150G (CT2500-150W)



### Driving range in Tokyo, Japan

Product : CD4000-400W



Please visit our website([www.icepipeLED.com](http://www.icepipeLED.com))for more applications.

### Exterior of supermarket in Lebanon

Product : CD4000-400W



### Race Course, New Zealand

Product : CT8000-600W



### Driving range in Saitama, Japan

Product : CD4000-400W



### Hotel in Moorea Island, Tahiti

Product : OB150-35W (OBB-25W)



### Downtown, Spain

Product : OB150-35W (OBB-25W)



### Garden of Okayama, Japan

Product : OBB-60W L+ (OBB-60W)



## ■ Domestic Applications

### Agricultural and seafood market in Seoul

Product : HB2000-80G



### Songsan Construction Factory

Product : HB2000-80G, 100G



### Icerink in Goyang

Product : HB2000-80G



### Gymnasium in Goseong-gun

Product : HB2000-100G



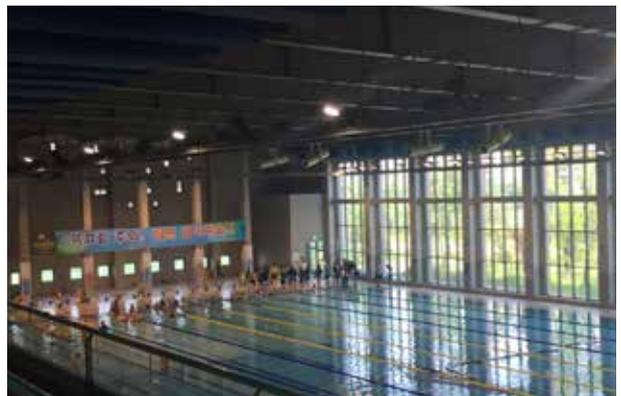
### Sports facility in Jangsu-gun

Product : HB2000-100G



### Swimming pool in Osan facilities management corporation

Product : HB2000-100G (CT2000-100W)



Please visit our website([www.icepipeLED.com](http://www.icepipeLED.com))for more applications.

### Elementary school in Incheon

Product : HB2200-150G (H3000-200W)



### Garage in Korea Expressway Corp.

Product : HB2200-150G (H3000-200W)



### Headquarters Marine Corps

Product : HB2010-80S



### Swimming pool located in Jindo-gun

Product : HB2010-80S



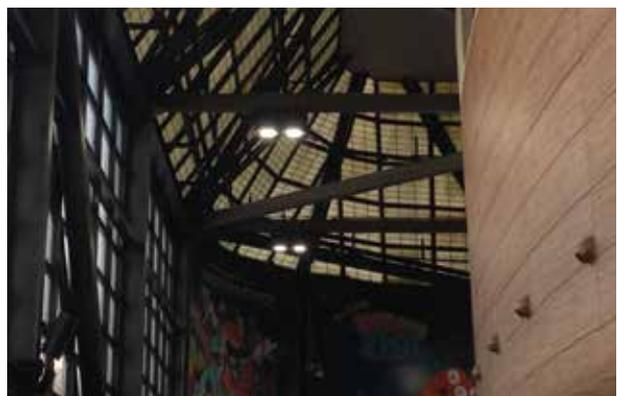
### Swimming pool located in Buan-gun

Product : HB2210-130S



### Performance hall lobby in Seoul

Product : UR2050-100W (UR2000-100W)



### Market in Daejeon

Product : CR2000-130W L+



### Warehouse in Yeongcheon

Product : CR2000-130W L+



### Central District Distribution Center in Daejeon

Product : CH2000-130W L+



### Hanrim Suhyup in Jeju island

Product : CT2500-150W



### Baseball practice field in Seoul

Product : CT2500-150W



### Gas station in Incheon

Product : CD3000-150W (D3000-150W)



Please visit our website([www.icepipeLED.com](http://www.icepipeLED.com))for more applications.

### Incheon International Airport

Product : CD3000-200W (D3000-200W)



### Bucheon Sports Complex Archery Pavilion

Product : CD4000-400W



### Korea Expressway Corporation Futsal Stadium

Product : CD4000-400W (D4000-400W)



### Gymnasium in Goyang, Korea

Product : CD4000-400W



### Tennis Court at Yeonmu Sports Park, Nonsan-shi

Product : CD4000-400W



### Football ground in Cheonma Sports Park

Product : CT8000-700W



### Olympic Gymnastics Stadium

Product : CTC8010-800W (T7000-700W)



### Elysian Gangchon Country Club in Korea

Product : CTC8010-800W



### Mokdong Ice rink in Seoul

Product : CTC8010-800W (T7000-700W)



### Driver's license office in Gangseo-gu

Product : OBB-36W L+ (OBB-30W)



### Dongchundang Park in Daejeon

Product : OBB-60W L+



### Wolmi park at Wolmi island

Product : OBB-60W L+



Please visit our website([www.icepipeLED.com](http://www.icepipeLED.com))for more applications.

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### Street light of Goyang city cultural foundation

Product : OBB-60W L+, OBB-80W L+



### Saeyon Bridge at Seogwipo-shi

Product : OBB-60W L+



### Mangma Stadium in Yeosu

Product : OBB-80W L+



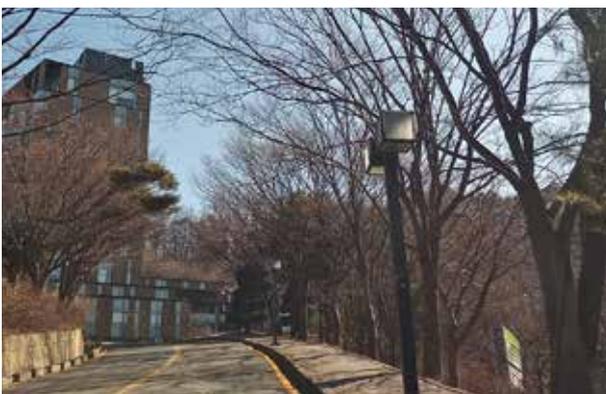
### Street light of Hansei University

Product : OBB-80W L+



### Street light of Daejeon University

Product : OBB-80W L+



### Gas station in Yangj

Product : OBBc-80W L+



### Security light of Park in Asan

Product : OB230-100W



### Street light of Chungbuk National University

Product : OB230-100W



### Street light of Yoodeung-ro in Daejeon

Product : OB230c-100W



### Dongguchong-ro in Daejeon

Product : OB230c-100W



### Jangheung Dam

Product : OB230c-100W



### Street light of Baekseok University in Korea

Product : OB230c-100W



Please visit our website([www.icepipeLED.com](http://www.icepipeLED.com))for more applications.

### Security light for a park located in Daejeon

Product : OB200c-50W



### Security light for a park located in Daejeon

Product : OB200c-50W



### DAISO COEX mall branch

Product : POP117-16W



### Daegu Mail Center, Korea

Product : POP200-25W



### Underground parking lot in Seoul

Product : POP200-25W



### Hyundai Elevator HQ

Product : PJT100-40W, PJM100-40W



# 08 CERTIFICATION

## ■ Patent

- Korea
- US
- China
- Japan
- Europe
- Canada
- Taiwan
- Australia
- New Zealand
- The Philippines
- Mexico
- Eurasia
- Russia



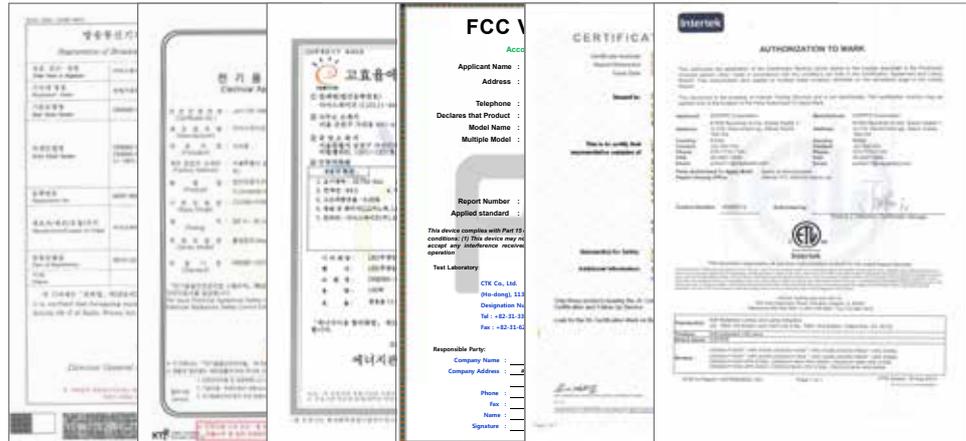
## ■ Design Right

- Korea
- US
- China
- Japan
- Europe
- Canada
- Australia
- Brazil
- India
- Indonesia
- Thailand
- The Philippines
- Vietnam
- Mexico
- Russia



## Certificates Documents

- Enterprise Institute Certificate
- Venture Business Confirmation
- ISO 9001 Certificate
- ISO 14001 Certificate
- Excellent Product Certificate
- KS Certificate
- EMC Certificate
- KC Electrical Appliances Safety Certificate
- High Efficiency Energy Certificate
- FCC Certificate
- UL Certificate
- ETL Certificate
- DLC Certificate
- PSE Certificate
- CE Certificate
- CB Certificate
- Water · dust proof test(IP67)
- Green Technology Certificate



# 09 LOCATION

## ICEPIPE Head Office

13F Byucksan 6-cha, Gasan Digital 1-ro 219,  
Geumcheon-gu, Seoul, Korea 08501  
Tel : 02-861-0010 Fax : 02-2084-9090

### Subway

#### Line#1

Get off at 'Gasan Digital Complex Station'  
Exit from gate11 of Line#1 and get out main street along the walkway with big buildings on both sides.  
Walk forward about 400m to the right with the station at the back side of yourself.  
Then you'll see 'Byucksan Digital Valley 6-cha' on your left.  
Cross the street in front of the convenience store and come to the 13th floor.

#### Line#7

Get off at 'Gasan Digital Complex Station'  
Exit from gate 9 of Line#7 and go straight about 450m.  
Then you'll see 'Byucksan Digital Valley 6-cha' on your right side.  
Cross the street in front of the convenience store and come to the 13th floor.

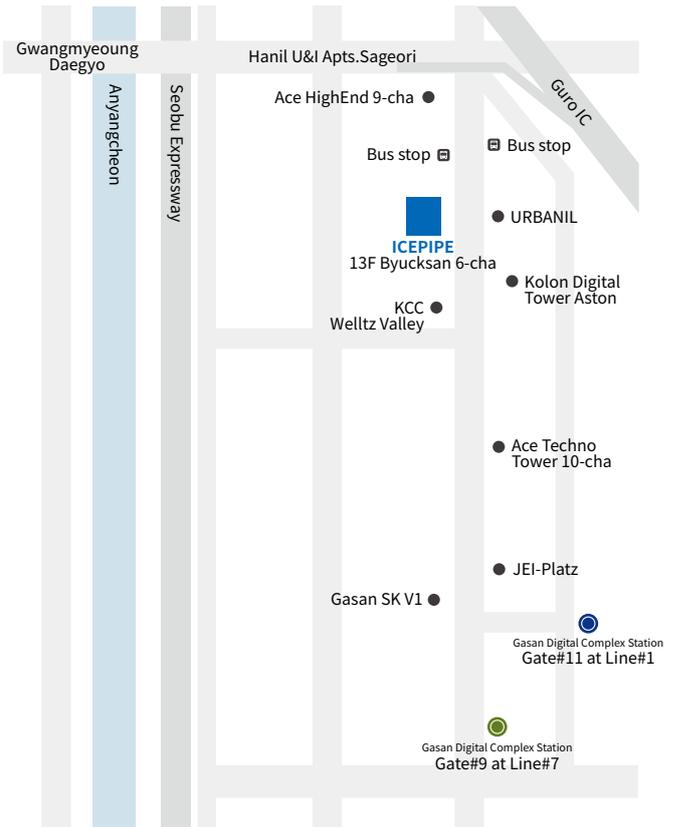
### Bus

652 653 75 5528 5012

Get off at 'Ace high end tower 5-cha' bus stop.  
Turn in the opposite direction of the bus and go straight 100m.  
Then you'll see 'Byucksan Digital Valley 6-cha' on your right side.  
Cross the street in front of the convenience store and come to the 13th floor.

#### Geumcheon 05

Get off at 'Byucksan Digital vally 6-cha' bus stop.  
Go straight 100m in the direction of the bus.  
Then you'll see 'Byucksan Digital Valley 6-cha' on your right side.  
Come to the 13th floor.



## ICEPIPE Cheonan Factory

Please contact the head office directly.

## ICEPIPE Kyeongsang·Daegu Branch

Please contact the head office directly.

## ICEPIPE Chungcheong·Daejeon Branch

Please contact the head office directly.



**ICEPIPE Corporation**

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**Tel.** +82-2-861-0010 **Fax.** +82-2-2084-9090 **Homepage.** [www.icepipeLED.com](http://www.icepipeLED.com)