



# The Natural Light You Look For **LED Lighting Solutions**

LumiDas-B • LumiDas-D • LumiDas-CL • LumiDas-H • LumiDas • LumiDas-S • LumiDas-T • LumiDas-E • LumiDas-SL • LumiDas-F • LumiDas-FS • LumiSheet Lamp • Lumi-M-Stick

# CONTENTS



GREEN ENERGY  
NATURAL LIGHT

  
**01**  
Omni-directional LED Lamps  
**LumiDas-B (Bulb Type)**  
6W / 10W 06

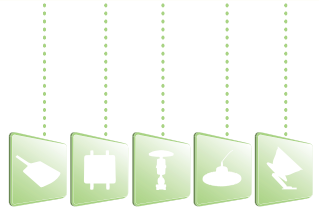
  
**02**  
Directional LED Lamps  
**LumiDas-D (Downlight Type)**  
6W / 10W 07

  
**03**  
Omni-directional LED Lamps  
**LumiDas-CL (Candle Type)**  
5W 09

  
**04**  
Integral LED Lamps  
**LumiDas-H (Spotlight type)**  
3W / 4W 12  
8W 13  
16W / 22W / 35W 14  
5W 15

  
**05**  
Integral LED Lamps  
**LumiDas-H (Diffusion type)**  
4W / 8W / 4W(L), 8W(L) 16  
10W / 11W 17  
16W 18  
22W / 35W 19

  
**06**  
Integral LED Lamps  
**LumiDas Classic (Non-isolation type)**  
3W / 4W 22  
8W 23  
16W 24  
22W 25  
52W / 72W 26  
55W / 80W 27



## 07

### Special Lightings

Streetlights	<b>LumiDas-S</b>	28
Tunnel Lamps	<b>LumiDas-T</b>	30
Explosion-Proof Lamps	<b>LumiDas-E</b>	32
Fish Luring Lamps	<b>LumiDas</b>	36
Floodlights	<b>LumiDas-SL</b>	38



## 08

### LED Fluorescent Lamps

<b>LumiDas-F • FS</b>	41
-----------------------	----



## 09

### Panel Type LED Lamps **LumiSheet Lamps**

44



## 10

### Bar Type LED Lamps **Lumi-M-Stick**

46



## 11

### Converters

48



# What we do

## Fawoo Technology has been a global leader in producing next-generation LED lamps

For last several years, we have intensively invested in human resources and R&D in LED lightings. As a result, Fawoo Technology has successfully established itself as the best manufacturer of LED lamps in Korea with its \$60 million of annual sales in 2008 and 2009.

We have made the LED lamps with our unique superb heat dissipation and anti-glaring light guiding lens technologies protected by domestic and international patents. With the ever-developing technologies supported, our lamps show the highest energy efficacy among the LED lamps in the world. Our LED lamps are one of the first KS (Korean industrial standards) certified LED lamps. Fawoo Technology was endorsed as sole official LED lamps supplier to the Korea Hydro & Nuclear Power Co., Ltd, the world-class nuclear power company. Our lamps are also certified by UL, CE, PSE, and FCC. The lamps also received German "iF Design Award" and "Good Design Products Award" proving excellency in their designs and quality. A full line of Fawoo LED lamps fit for your need of lighting at home, offices, commercial buildings, shops, workplaces, shopping malls, parking lots, streets, and any places you need energy-efficient and environment-friendly lightings.

### Benefits of Fawoo LED lamps are following;

- High energy-efficient (saving significant energy cost up to 80% of saving)
- Long lifetime (saving maintenance and replacement costs)
- Environmentally friendly and responsible (Minimizing environmental pollution caused by mercury, cadmium, and lead)
- Low carbon emitting (Using LED lamps reduces CO2 emissions with the Clean Development Mechanism(CDM))

In the midst of aggravating climate changes, many corporations in the world participated in the world trends in taking responsibility for environment as energy-concerned pro-environmental corporations. For large energy-consuming business and buildings, Fawoo's LED lamps are a visible and viable alternative for environmental energy-saving and the best solution for Negotiated Agreement on target management of energy and Voluntary Agreement on saving energy.

Fawoo Technology, the world renown high brand of LED lamps and the global representative criteria for high-quality LED lamps, has changed the paradigm of old lighting industry. We became a leading environmental corporation. We promise to open the era of energy-concerned environmental corporations claiming high energy-efficient, eco-friendly, and low carbon business activities.

I wish your warm-hearted support and concerns.

CEO Young-Ho Yoo

# Footprint

Establishment of Fawoo Machinery Co.	Innovation [Awarded as an INNO-BIZ by the Small and Medium Business Administration]	LED Lightings
1989 • Established Fawoo Machinery Co.	2000 • Selected as a Good Prospect Company (by Gyeonggi Province)	2004 • Constructed Fawoo Bupyung Factory
1994 • Invented CNC Engraving Machines	• Developed and commercialized Light Panels	2005 • Register as a public company, IPO on KOSDAQ
1999 • Established Fawoo R&D Center	2003 • Awarded an INNO-BIZ Enterprise (by the SMBA)	2006 • Developed and commercialized LED Light Guiding Panels
	• Established FAWOO China in Yantai, China	

## Fawoo LED Lightings in global partnership



### Establishment of Overseas Subsidiaries

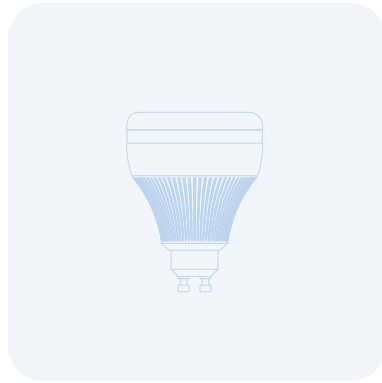
- 2007**
  - Awarded the Next Generation World Top-class Production Enterprise by the Ministry of Knowledge Economy
  - Developed and commercialized integral LED lamps
  - Established Fawoo Spain, JVC (for signage)
- 2008**
  - Introduced an ESCO business model in LED lightings
  - Developed a full line of LED lamps
  - Established Fawoo Japan (for LED lamps), Fawoo Canada (for signage lamps)
  - Constructed the New Factory & Office Building at Ojeong Industrial Complex in Bucheon

### Fawoo Environment Building & Overseas JVCs

- 2009**
  - Declared Zero Carbon policy in the new building
  - New building was certified as Eco-Friendly Building (Green Building) by Korean government
  - Integral LED lamps LumiDas-H series UL / Ce listed
  - Established Fawoo Tech North America, LLC in North America (for LED lamps sales)
  - Established Fawoo Italy, a JVC in Italy (for LED lamps)

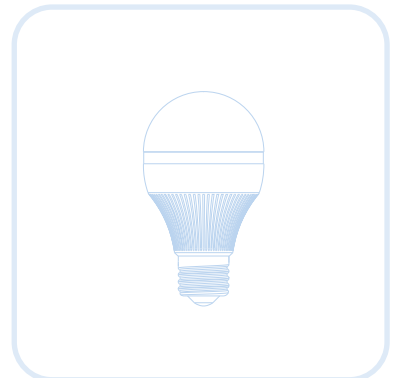
### Great Innovation : LumiDas-B & D LED Replacement Lamps

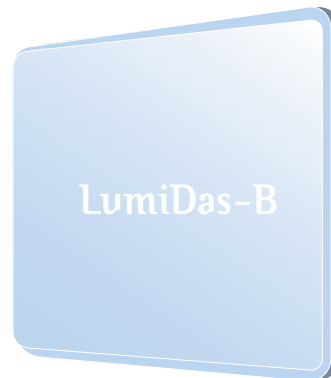
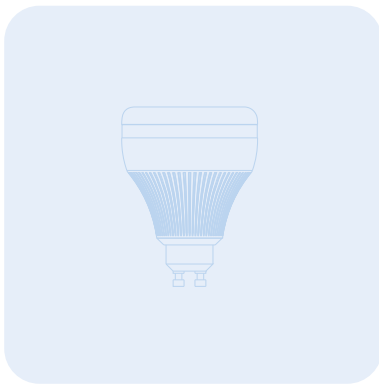
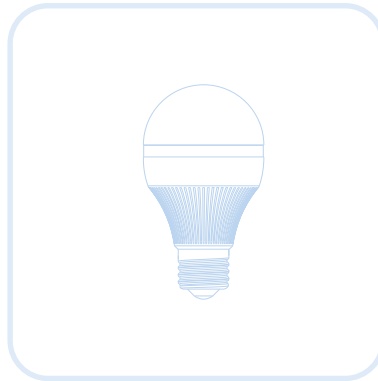
- 2010**
  - Lumidas-H series are certificated as High-efficiency Energy Product by KEMCO.
  - LED lamps manufacturing license agreed with Green Mill Global, LLC(GMG), Ohio, U.S.
  - Developed LumiDas-B&D LED replacement lamps, the most innovative and economic LED lamps by far



# LumiDas-B LumiDas-D

LumiDas-B and LumDas-D LED lamps replace conventional incandescent lamps and downlights for general illumination. Saving over 80% of electricity consumption, LumiDas-B and LumDas-D lamps also reduce CO<sub>2</sub> emissions significantly. The lamps have long lifetime of 30,000~50,000 hours(which is 40 times of an incandescent lamp). Made of flame-resistant plastic instead of aluminum, the lamp saves dramatically its manufacturing cost and made it affordable at the price of 40% below than the existing equivalent LED lamps.





## Features

- Reducing the manufacturing cost through plastic heat dissipation technology, the energy-efficient LED lamps became very affordable to end-users
- Maximum performance of heat dissipation achieved by combining high thermal conductive aluminum alloy and polycarbonate materials in the lamp body
- No electric shock and electrical safety assured due to the plastic lamp body
- Easy and comfortable to replace conventional incandescent lamps as it has familiar external appearance as incandescent lamps. It looks much better than CFL lamps.
- Simplified and shortened manufacturing process raises productivity
- Flexibly designed by an injection molding method
- Smaller and lighter than existing LED lamps
- Eco-friendly; no Mercury, no Lead, and no Cadmium



# O1 LumiDas-B Bulb Type Indoor Lamps

## 6W

## 10W



E26 / E27

BL06-100/120VE26S(W)  
 BL06-100/120VE26S(P)  
 BL06-200/240VE27S(W)  
 BL06-200/240VE27S(P)



GU10

BL06-100/120VGU10S(W)  
 BL06-100/120VGU10S(P)  
 BL06-200/240VGU10S(W)  
 BL06-200/240VGU10S(P)

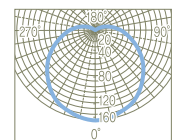
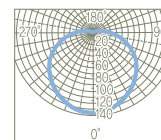
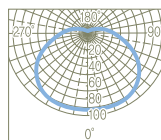
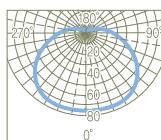


E26 / E27

BL10-100/120VE26S(W)  
 BL10-100/120VE26S(P)  
 BL10-200/240VE27S(W)  
 BL10-200/240VE27S(P)

06

Power Consumption (W/h)	6	6	10	10
Luminous Efficacy (lm/W)	68.5	82.8	65.5	82.1
CRI(Ra)	82.5	73.1	82.5	73.1
Base	E26 / E27 / GU10	E26 / E27 / GU10	E26 / E27	E26 / E27
Size (mm)	Ø63 X H 109.5	Ø63 X H 109.5	Ø80 X H 130	Ø80 X H 130
Weight (g)	120	120	270	270
Power Factor (PF)	> 0.9	> 0.9	> 0.9	> 0.9
Lifetime (hours)	30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000
Color Temperature	Warm White	Pure White	Warm White	Pure White
Operating Ambient Temperature	5°C ~ 35°C	5°C ~ 35°C	5°C ~ 35°C	5°C ~ 35°C
Input Voltage (V)	AC 100-120V / AC 200-240V, 50/60Hz	AC 100-120V / AC 200-240V, 50/60Hz	AC 100-120V / AC 200-240V, 50/60Hz	AC 100-120V / AC 200-240V, 50/60Hz
Certification	UL, CE (pending)	UL, CE (pending)	UL, CE (pending)	UL, CE (pending)



※ To improve lamp quality, changes and updates in specification may be made without prior notice.





# O2 LumiDas-D Downlight Type Indoor Lamps

## 6W

## 10W



E26 / E27



GU10



E26 / E27

DL06-100/120VE26S(W)  
DL06-100/120VE26S(P)  
DL06-200/240VE27S(W)  
DL06-200/240VE27S(P)

DL06-100/120VGUIOS(W)  
DL06-100/120VGUIOS(P)  
DL06-200/240VGUIOS(W)  
DL06-200/240VGUIOS(P)

DL10-100/120VE26S(W)  
DL10-100/120VE26S(P)  
DL10-200/240VE27S(W)  
DL10-200/240VE27S(P)

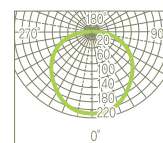
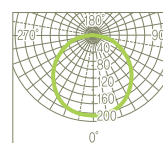
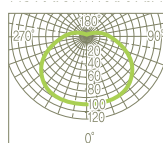
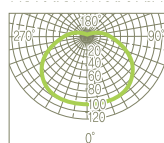
6
67.6
82.6
E26 / E27 / GU10
Ø63 X H 84.6
115
0.9 <
30,000~50,000
Warm White
5°C ~ 35°C
AC 100-120V / AC 200-240V, 50/60Hz
UL, CE (pending)

6
82.8
72.9
E26 / E27 / GU10
Ø63 X H 84.6
115
0.9 <
30,000~50,000
Pure White
5°C ~ 35°C
AC 100-120V / AC 200-240V, 50/60Hz
UL, CE (pending)

10
64.5
82.5
E26 / E27
Ø63 X H 107.8
270
0.9 <
30,000~50,000
Warm White
5°C ~ 35°C
AC 100-120V / AC 200-240V, 50/60Hz
UL, CE (pending)

10
80.8
73.1
E26 / E27
Ø63 X H 107.8
270
0.9 <
30,000~50,000
Pure White
5°C ~ 35°C
AC 100-120V / AC 200-240V, 50/60Hz
UL, CE (pending)

Power Consumption (W/h)
Luminous Efficacy (lm/W)
CRI(Ra)
Base
Size (mm)
Weight (g)
Power Factor (PF)
Lifetime (hours)
Color Temperature
Operating Ambient Temperature
Input Voltage (V)
Certification

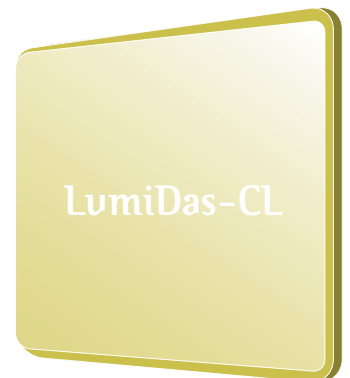


※ To improve lamp quality, changes and updates in specification may be made without prior notice.



# LumiDas-CL

LumiDas-CL 5W candlelight-type LED lamp is made of insulating polycarbonate instead of aluminum saving the manufacturing cost and good for electrical safety. Adopting unique and patent internal heat dissipation systems, it maintains superb luminance and guarantees reliability and long lifetime. A light-diffusing light guide panel of the candle-type lamp perfectly represents the same light-spreading effect of incandescent lamps. The lamp saves dramatically its manufacturing cost and made it affordable at the price of 40% below than the existing LED lamps.



## Features

- Beautifully designed to artistically represent an image of a flower bud and candlelight
- Low temperature maintained by superb internal air-flow heat dissipation systems
- No infrared radiation produced low heat and saves air-conditioning costs
- Consumes up to 80% less energy than incandescent lamps
- Low maintenance costs due to long lifetime (30,000~50,000 hours)
- Eco-friendly; no Mercury, no Lead, and no Cadmium. Environmental re-cycling
- Very durable and shock-resistant



# 03 LumiDas-CL Candlelight Type Indoor Lamps

## 5W

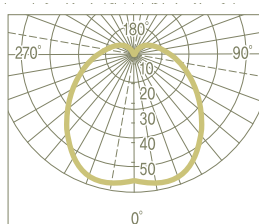


CL05-100/120VE26S(W) CL05-200/240VE27S(W)  
 CL05-100/120VE26S(P) CL05-200/240VE27S(P)

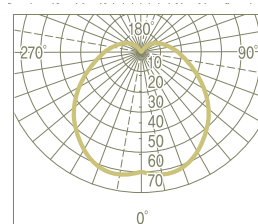
09

5	Power Consumption (W/h)
44.0(W) / 58.4(P)	Luminous Efficacy (lm/W)
85.0(W) / 72.0(P)	CRI(Ra)
E26 / E27	Base
Ø52 X H 135	Size (mm)
180	Weight (g)
0.7 < , 0.9 <	Power Factor (PF)
30,000~50,000	Lifetime (hours)
Warm White / Pure White	Color Temperature
5°C ~ 35°C	Operating Ambient Temperature
AC 100-120V / AC 200-240V, 50/60Hz	Input Voltage (V)
UL, CE (pending)	Certification

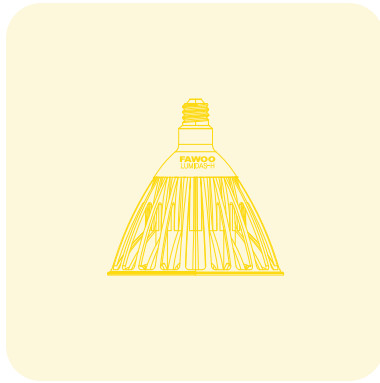
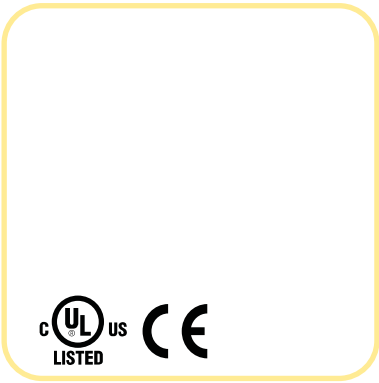
Warm White



Pure White

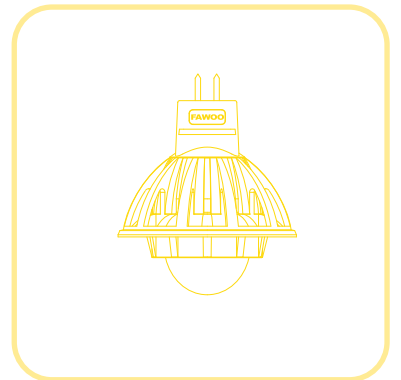


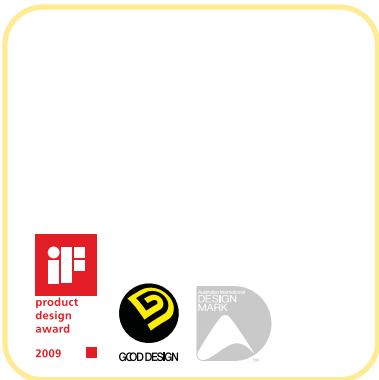
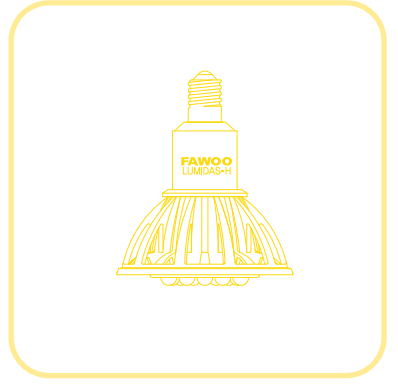
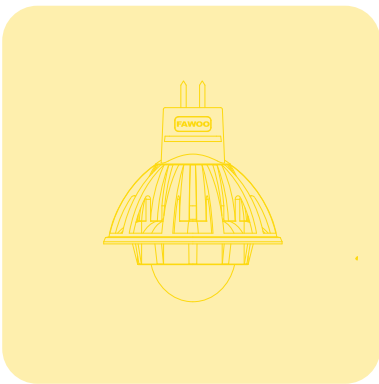
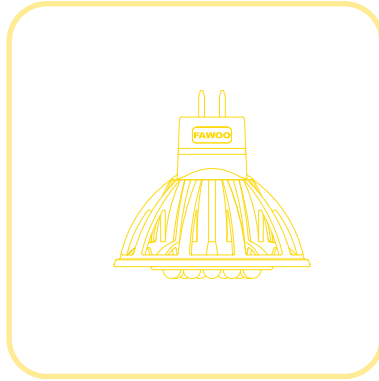
※ To improve lamp quality, changes and updates in specification may be made without prior notice.



# LumiDas-H

LumiDas-H lamps are integral replacement lamps both for indoor and outdoor uses. LumiDas-H lamps reduce CO<sub>2</sub> emissions and save 70~ 80% of electricity consumption of conventional lamps. While they can last up to 100,000 hours in optimum operation conditions, their long lifetime of 30,000~50,000 hours is warranted.





## Features

- Beautifully designed to artistically represent an image of a flower
- Low temperature maintained by superb heat dissipation systems (3W : ambient temperature + 26 °C 5W : ambient temperature + 20 °C )
- No UV radiation helps to preserve materials
- No infrared radiation produces low heat and saves air-conditioning costs
- Consumes up to 80% less energy than halogen lamps
- Low maintenance costs due to long lifetime
- Eco-friendly; no Mercury, no Lead, and no Cadmium
- Anti-shock durability
- UL, CE listed
- Awarded International Design Prizes (iF Design/Germany, Good Design/Korea, AIDA/Australia)
- Good Warranty: 3 years from the date of purchase (when the lamps used at the ambient temperature of 25°C) For DC products, the warranty is valid only when the lamps are used with Fawoo converter HPA-1208-W



# O4 LumiDas-H SPOT Type Indoor Lamps

LumiDas-H lamps are integral lamps replacing halogen and other lamps for indoor use.

## 3W

## 4W

Certification Gray : UL, CE Orange : E26, E39 base (UL) Green : E27, E40 base (CE)



LH03 - MIG05S (WNS) LH03 - DIG05S (WNS)  
LH03 - MIG05S (PNS) LH03 - DIG05S (PNS)

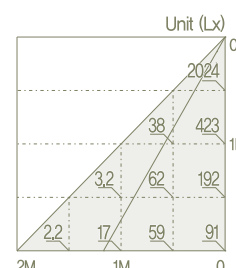
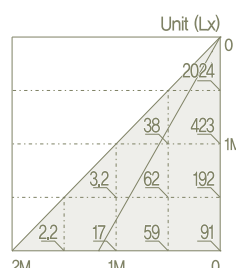
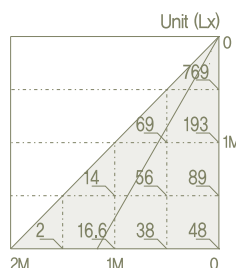
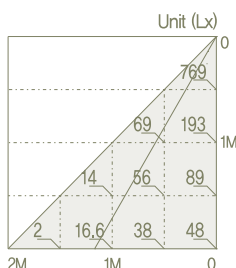


LH04-AFE26S (WNS)  
LH04-AFE26S (PNS)  
LH04-AFE27S (WNS)  
LH04-AFE27S (PNS)



LH04-AFE26L (WNS)  
LH04-AFE26L (PNS)  
LH04-AFE27L (WNS)  
LH04-AFE27L (PNS)  
Long Type

Size (mm)	Ø50×H52	Ø50×H52	Ø95×H99	Ø95×H131
Weight (g)	38	38	177	184
Power Consumption (W/h)	3	3	4	4
Input Voltage (V)	AC/DC 12V	DC 10V (0.240A)	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz
Power Factor	-	-	0.9	0.9
Color Temperature	Warm White / Pure White	Warm White / Pure White	Warm White / Pure White	Warm White / Pure White
Beam Angle (°)	60	60	60	60
Luminous Efficacy (lm/W)	80	80	80	80
Lifetime (hours)	30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000
Operating Ambient Temperature	-5°C ~ 35°C	-5°C ~ 35°C	-5°C ~ 35°C	-5°C ~ 35°C
Base	GU5.3	GU5.3	E26 / E27	E26 / E27
Certification	UL / CE	UL / CE	UL / CE	UL / CE



LH03-D1G05S, LH03-M1G05S must be used with Fawoo converter (HPA-1208-W). <Please see p.48>



## Long Type

Long neck lamps for recessed, surface and pendant-mounted downlights

tip

# 8W

Gray : UL, CE    Orange : E26, E39 base (UL)    Green : E27, E40 base (CE)    Certification



LH08-AFE26S (WNS)  
LH08-AFE26S (PNS)  
LH08-AFE27S (WNS)  
LH08-AFE27S (PNS)



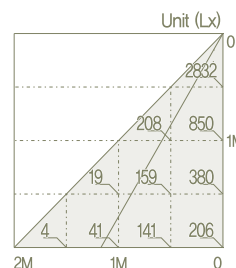
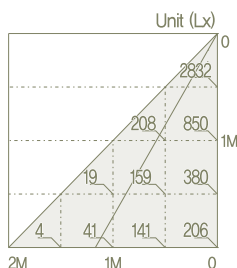
LH08-AFE26L (WNS)  
LH08-AFE26L (PNS)  
LH08-AFE27L (WNS)  
LH08-AFE27L (PNS)

Long Type

13

Ø95×H99
179
8
AC100-240V, 50/60Hz
0.9
Warm White / Pure White
60
80
30,000~50,000
-5°C ~ 35°C
E26 / E27
UL / CE

Ø95×H131	Size (mm)
186	Weight (g)
8	Power Consumption (W/h)
AC100-240V, 50/60Hz	Input Voltage (V)
0.9	Power Factor
Warm White / Pure White	Color Temperature
60	Beam Angle (°)
80	Luminous Efficacy (lm/W)
30,000~50,000	Lifetime (hours)
-5°C ~ 35°C	Operating Ambient Temperature
E26 / E27	Base
UL / CE	Certification



LH05-D1E10S must be used with Fawoo converter (HPA-1208-W). <Please see p.48>



# O4 LumiDas-H SPOT Type Indoor Lamps

## 16W

## 22W

## 35W

Certification Gray : UL, CE Orange : E26, E39 base (UL) Green : E27, E40 base (CE)



LH16-AFE26S(WFS) LH16-AFE27S(WFS)  
 LH16-AFE26S(PFS) LH16-AFE27S(PFS)  
 LH16-AFE39S(WFS) LH16-AFE40S(WFS)  
 LH16-AFE39S(PFS) LH16-AFE40S(PFS)

LH22-AFE26S(WFS) LH22-AFE27S(WFS)  
 LH22-AFE26S(PFS) LH22-AFE27S(PFS)  
 LH22-AFE39S(WFS) LH22-AFE40S(WFS)  
 LH22-AFE39S(PFS) LH22-AFE40S(PFS)

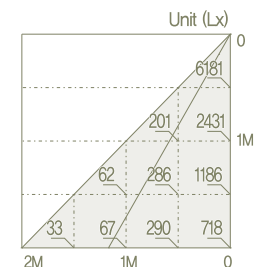
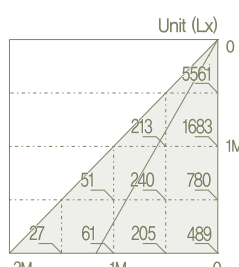
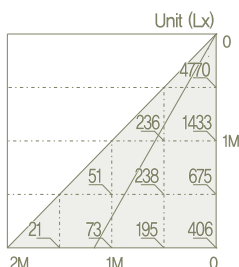
LH35-AFE39S(WFS)  
 LH35-AFE39S(PFS)  
 LH35-AFE40S(WFS)  
 LH35-AFE40S(PFS)

14

Size (mm)	Ø122×H155
Weight (g)	535 / 555
Power Consumption (W/h)	16
Input Voltage (V)	AC100-240V, 50/60Hz
Power Factor	0.9
Color Temperature	Warm White / Pure White
Beam Angle (°)	60
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	5°C ~ 35°C
Base	E26 / E27 / E39 / E40
Certification	UL / CE

Size (mm)	Ø152×H155
Weight (g)	624 / 644
Power Consumption (W/h)	22
Input Voltage (V)	AC100-240V, 50/60Hz
Power Factor	0.9
Color Temperature	Warm White / Pure White
Beam Angle (°)	60
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	5°C ~ 35°C
Base	E26 / E27 / E39 / E40
Certification	UL / CE

Size (mm)	Ø180×H185
Weight (g)	1067 / 1087
Power Consumption (W/h)	35
Input Voltage (V)	AC100-240V, 50/60Hz
Power Factor	0.9
Color Temperature	Warm White / Pure White
Beam Angle (°)	60
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	5°C ~ 35°C
Base	E39 / E40
Certification	UL / CE







• Designed to represent an image of a tulip

tip

5W

Gray : UL, CE    Orange : E26, E39 base (UL)    Green : E27, E40 base (CE)    Certification



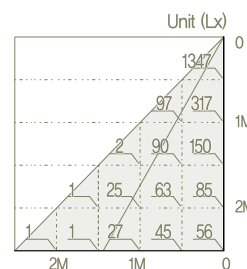
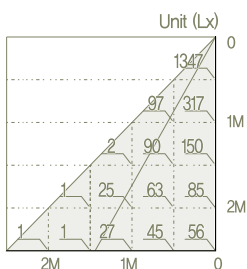
LH05 -MIG05M (WNS)  
LH05 -MIG05M (PNS)



LH05 -MIG05T (WNS)  
LH05 -MIG05T (PNS)

Ø50×H71  
70  
5.6  
AC/DC 12V  
-  
Warm White / Pure White  
60  
80  
30,000~50,000  
5°C ~ 35°C  
GU5.3  
UL / CE

Ø50×H72    Size (mm)  
70    Weight (g)  
5.6    Power Consumption (W/h)  
AC/DC 12V    Input Voltage (V)  
-    Power Factor  
Warm White / Pure White    Color Temperature  
60    Beam Angle (°)  
80    Luminous Efficacy (lm/W)  
30,000~50,000    Lifetime (hours)  
5°C ~ 35°C    Operating Ambient Temperature  
GU5.3    Base  
UL / CE    Certification





# 05 LumiDas-H DIFFUSION Type Indoor Lamps

4W

8W

4W  
8W

Certification Gray : UL, CE Orange : E26, E39 base (UL) Green : E27, E40 base (CE)



LH04-AFE26S (WND)  
LH04-AFE26S (PND)  
LH04-AFE27S (WND)  
LH04-AFE27S (PND)



LH08-AFE26S (WND)  
LH08-AFE26S (PND)  
LH08-AFE27S (WND)  
LH08-AFE27S (PND)



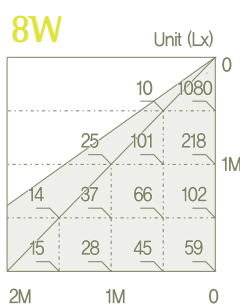
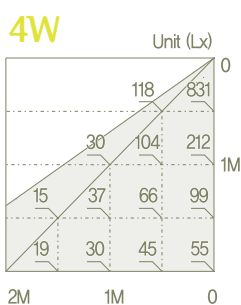
Long Type

LH04-AFE26L (WND)  
LH04-AFE26L (PND)  
LH08-AFE26L (WND)  
LH08-AFE26L (PND)  
LH04-AFE27L (WND)  
LH04-AFE27L (PND)  
LH08-AFE27L (WND)  
LH08-AFE27L (PND)

Size (mm)	Ø95×H104
Weight (g)	194
Power Consumption (W/h)	4
Input Voltage (V)	AC100-240V, 50/60Hz
Power Factor	0.9
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	5°C ~ 35°C
Base	E26 / E27
Certification	UL / CE

Size (mm)	Ø95×H104
Weight (g)	195
Power Consumption (W/h)	8
Input Voltage (V)	AC100-240V, 50/60Hz
Power Factor	0.9
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	5°C ~ 35°C
Base	E26 / E27
Certification	UL / CE

Size (mm)	Ø95×H136
Weight (g)	200 / 201
Power Consumption (W/h)	4 / 8
Input Voltage (V)	AC100-240V, 50/60Hz
Power Factor	0.9
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	5°C ~ 35°C
Base	E26 / E27
Certification	UL / CE





## 10W

## 11W



LH10-100/240VE26S(WFD) LH10-100/240VE26S(WFD)-27  
 LH10-100/240VE26L(WFD) LH10-100/240VE26L(WFD)-27



LH11-100/240VE26S(PFD)  
 LH11-100/240VE27S(PFD)

Standard type - Ø95 X H104  
 Long Type - Ø95 X H136

190 / 196

10

AC 100-240V, 50/60Hz

0.95

Warm White

100

30 / 29

30,000~50,000

5°C ~ 35°C

E26 / E27

Ø95 X H 136 Size (mm)

318 Weight (g)

11 Power Consumption (W/h)

AC 100-240V, 50/60Hz Input Voltage (V)

0.95 Power Factor

Pure White Color Temperature

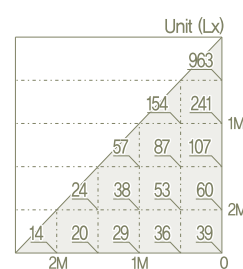
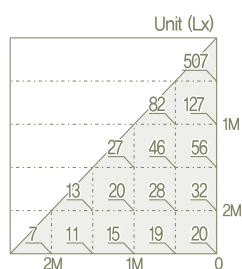
105 Beam Angle (°)

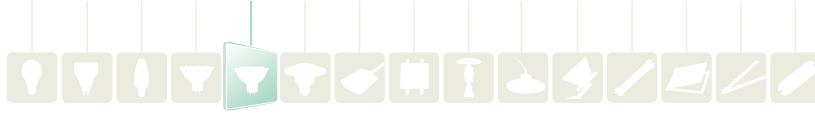
80 Luminous Efficacy (lm/W)

30,000~50,000 Lifetime (hours)

5°C ~ 35°C Operating Ambient Temperature

E26 / E27 Base





# 05 LumiDas-H DIFFUSION Type Indoor & Outdoor Lamps

## 16W

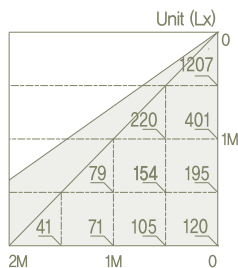
Certification Gray : UL, CE Orange : E26, E39 base (UL) Green : E27, E40 base (CE)



**LH16-AFE26 S(WFD)**    LH16-AFE27S(WFD)  
**LH16-AFE26S(PFD)**    LH16-AFE27S(PFD)  
**LH16-AFE39S(WFD)**    LH16-AFE40S(WFD)  
**LH16-AFE39S(PFD)**    LH16-AFE40S(PFD)

18

Size (mm)	Ø122×H160
Weight (g)	643 / 663
Power Consumption (W/h)	16
Input Voltage (V)	AC100-240V, 50/60Hz
Power Factor	0.9
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	5°C ~ 35°C
Base	E26 / E27 / E39 / E40
Salt Water Spray Test (hours)	168
Certification	UL / CE





## Features of Outdoor Lamps

tip

- Waterproof for both indoor and outdoor use
- Surface treatment for protection from seawater and UV rays
- Durable solid structure without glass components

# 22W

# 35W

Orange : E26, E39 base (UL)    Green : E27, E40 base (CE)    Certification



LH22-AFE26S(WFD)  
LH22-AFE26S(PFD)  
LH22-AFE39S(WFD)  
LH22-AFE39S(PFD)

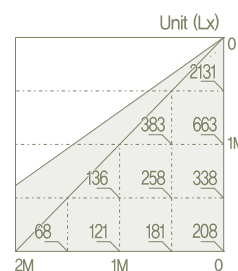
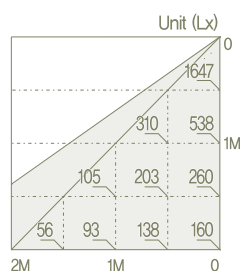
LH22-AFE27S(WFD)  
LH22-AFE27S(PFD)  
LH22-AFE40S(WFD)  
LH22-AFE40S(PFD)



LH35-AFE39S(WFD) LH35-AFE40S(WFD)  
LH35-AFE39S(PFD) LH35-AFE40S(PFD)

Ø152×H160
730 / 750
22
AC100-240V, 50/60Hz
0.9
Warm White / Pure White
110
80
30,000~50,000
5°C ~ 35°C
E26 / E27 / E39 / E40
168
UL / CE

Ø180×H190	Size (mm)
1152 / 1172	Weight (g)
35	Power Consumption (W/h)
AC100-240V, 50/60Hz	Input Voltage (V)
0.9	Power Factor
Warm White / Pure White	Color Temperature
110	Beam Angle (°)
80	Luminous Efficacy (lm/W)
30,000~50,000	Lifetime (hours)
5°C ~ 35°C	Operating Ambient Temperature
E39 / E40	Base
168	Salt Water Spray Test (hours)
UL / CE	Certification

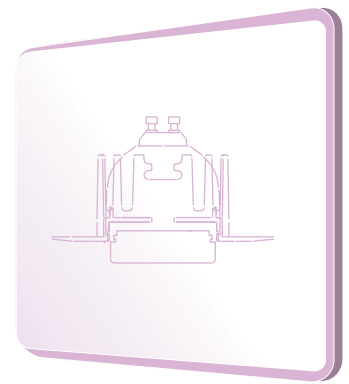
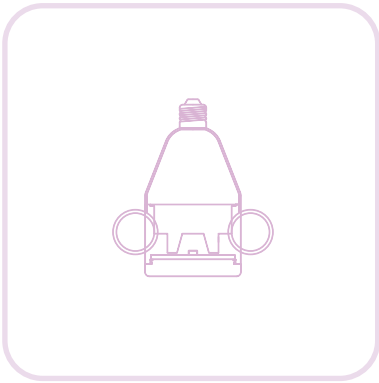




# LumiDas Classic

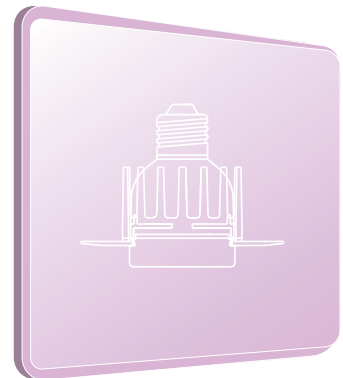
LumiDas Classic lamps replace conventional indoor and outdoor lamps.  
LumiDas Classic lamps reduce CO<sub>2</sub> emissions and save over 70~80% of power consumption of conventional lamps.  
Their long lifetime of 30,000~50,000 hours also reduce maintenance costs.





## Economic Benefits

- Interchangeable with halogen lamps, incandescent lamps, metal halide lamps, and spotlights which have Edison bases
- Low heat emission reduces cost of air conditioning
- Reduce overall energy consumption for lighting for office areas up to 80%
- Save maintenance cost due to long lifetime.



## Features

- Low temperature maintained by unique heat dissipation systems
- Eco-friendly: No Mercury, no Lead, and no Cadmium
- Durable solid structure without glass components
- Minimum glaring
- No cooling fan (Noiseless, long lifetime)
- No (or minimal) infrared radiation saves air-conditioning costs due to low temperature
- No UV radiation
- Artificial lighting to grow crops and plants
- Warranty : 3 years from the date of purchase (when used at ambient temperature of 25 °C)





## 55W/80W Features and Benefits

tip

- Direction of beam adjustable by a fixing bracket
- Waterproof and dustproof
- Solid surface coating
- For searchlights (beam angle 40°), factory lights (beam angle 40°), and security and pedestrian lamps (beam angle 110°)

# 55W 80W



LD55-100/280VS (PFD)  
LD55-100/280VS (WFD)

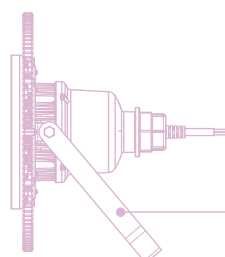
LD80-200/280VS (PFD)  
LD80-200/280VS (WFD)  
LD80-200/280VS (PFS)  
LD80-200/280VS (WFS)



LD55-100/280VE39S (PFD)  
LD55-100/280VE39S (WFD)

LD80-200/280VE39S (PFS)  
LD80-200/280VE39S (PFD)  
LD80-200/280VE39S (WFS)  
LD80-200/280VE39S (WFD)

LD55-100/280VS (PFD) LD55-100/280VS (WFD)	LD80-200/280VS (PFD) LD80-200/280VS (WFD) LD80-200/280VS (PFS) LD80-200/280VS (WFS)	LD55-100/280VE39S (PFD) LD55-100/280VE39S (WFD)	LD80-200/280VE39S (PFS) LD80-200/280VE39S (PFD) LD80-200/280VE39S (WFS) LD80-200/280VE39S (WFD)	
Ø290×H190	Ø290×H190	Ø290×H190	Ø290×H190	Size (mm)
1.8	1.8	1.69	1.69	Weight (Kg)
55	80	55	80	Power Consumption (W/h)
AC 100-280V, 50/60Hz	AC 200-280V, 50/60Hz	AC 100-280V, 50/60Hz	AC 200-280V, 50/60Hz	Input Voltage (V)
0.9	0.9	0.9	0.9	Power Factor
Warm White / Pure White	Warm White / Pure White	Warm White / Pure White	Warm White / Pure White	Color Temperature
110	110 / 40	110	110 / 40	Beam Angle (°)
80	80	80	80	Luminous Efficacy (lm/W)
30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	Lifetime (hours)
-20°C ~ 35°C	-20°C ~ 35°C	5°C ~ 35°C	5°C ~ 35°C	Operating Ambient Temperature
-	-	E39	E39	Base
66	66	-	-	IP Grade
168	168	168	168	Salt Water Spray Test (hours)



Fixed Bracket (BKT-LD1)  
(for LD55-100/280VS, LD80-200/280VS)



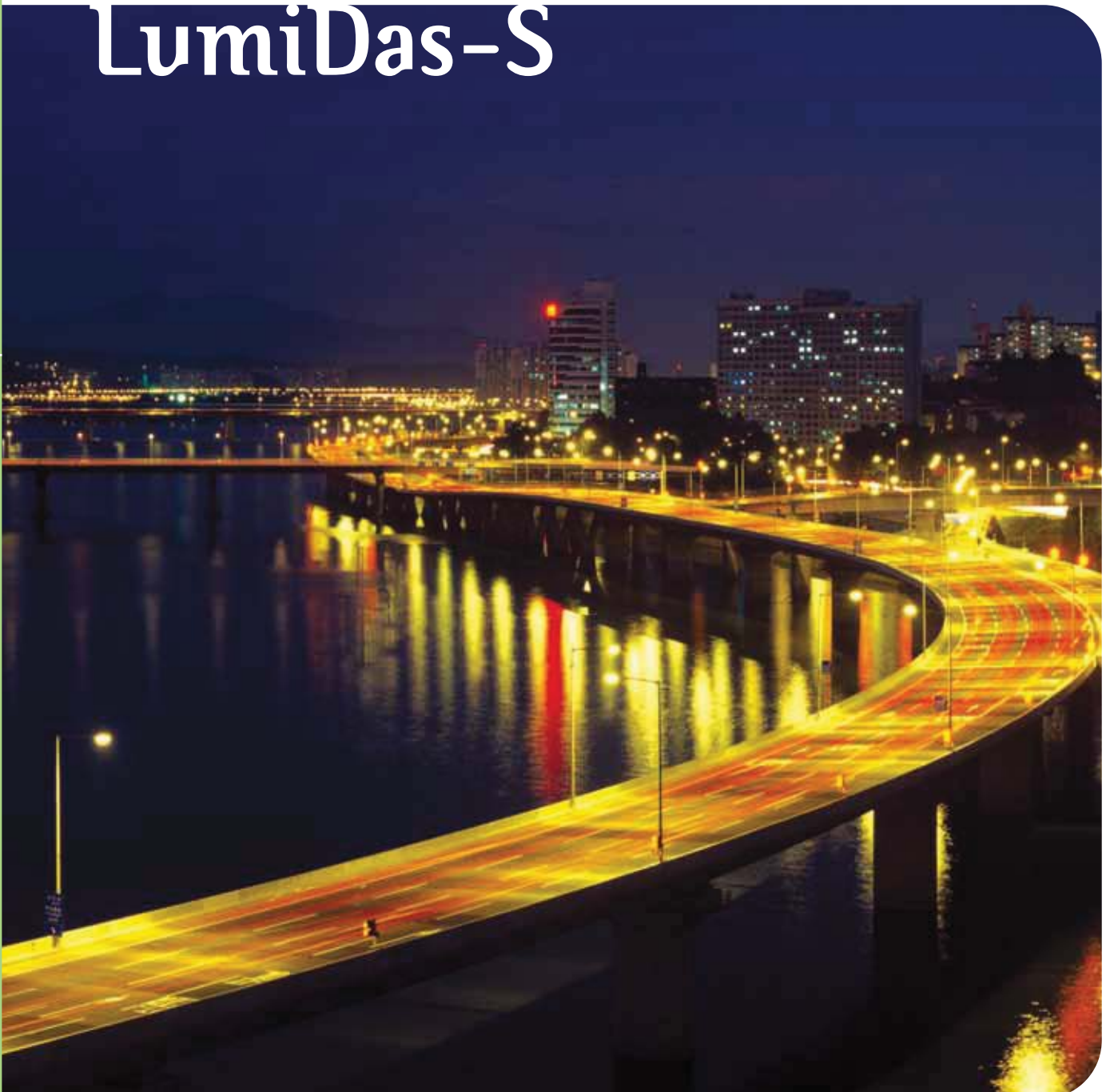


## 07 LumiDas-S Streetlights

Lumidas-S streetlights replace existing metal halide, HPS and Mercury street lamps. They can also be used at pole/arm-mounted area and roadway. Since streetlights consume much more energy per unit, Fawoo LED streetlights can save energy most effectively. As maintenance cost of streetlights is very high, long lifetime of the LED streetlights can save huge maintenance costs.

- Slim & compact design
- Instant activation
- Wide range of input voltage (AC 100-280V, 50/60Hz)
- Low temperature maintained by superb heat dissipation systems
- Consume much less power than conventional streetlights
- Eco-friendly; No Mercury, no Lead, and no Cadmium
- Waterproof and dustproof (IP66)
- Must be used with Fawoo provided converter
- Made of anodized aluminum body

# LumiDas-S





# 80W

# 99W

# 110W

# 160W



ST80-100/280VS (PF) Basic Type  
ST80-100/280VR (PF) Reflector Type



ST110-200/280VS (PF) Basic Type  
ST110-200/280VR (PF) Reflector Type

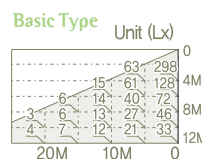
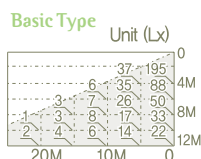
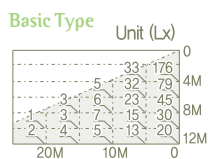
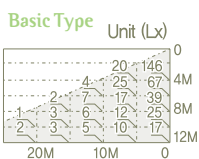


ST99-200/280VS (PF) Basic Type  
ST99-200/280VR (PF) Reflector Type



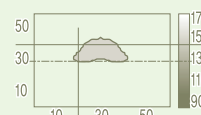
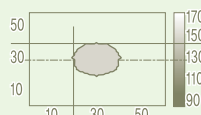
ST160-200/280VS (PF) Basic Type  
ST160-200/280VR (PF) Reflector Type

H640×W370×D85	H640×W370×D85	H640×W370×D85	H640×W370×D114	Size (mm)
8.1	8.2	8.2	10	Weight (Kg)
80	99	110	160	Power Consumption (W/h)
AC100-280V, 50/60Hz (Fawoo converter : FPU5080S)	AC200-280V, 50/60Hz (Fawoo converter : FPU5099S)	AC200-280V, 50/60Hz (Fawoo converter : FPU50110S)	AC200-280V, 50/60Hz (Fawoo converter : FPU50160S)	Input Voltage (V)
0.9	0.9	0.9	0.9	Converter
Pure White	Pure White	Pure White	Pure White	Power Factor
130	130	130	130	Color Temperature
80	80	80	80	Beam Angle (°)
30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	Luminous Efficacy (lm/W)
-20°C ~ 35°C	-20°C ~ 35°C	-20°C ~ 35°C	-20°C ~ 35°C	Lifetime (hours)
66	66	66	66	Operating Ambient Temperature
168	168	168	168	IP Grade
				Salt Water Spray Test (hours)



Light Distribution Curves - Basic Type

Light Distribution Curves - Reflector Type



Light distribution can be adjustable by a reflector

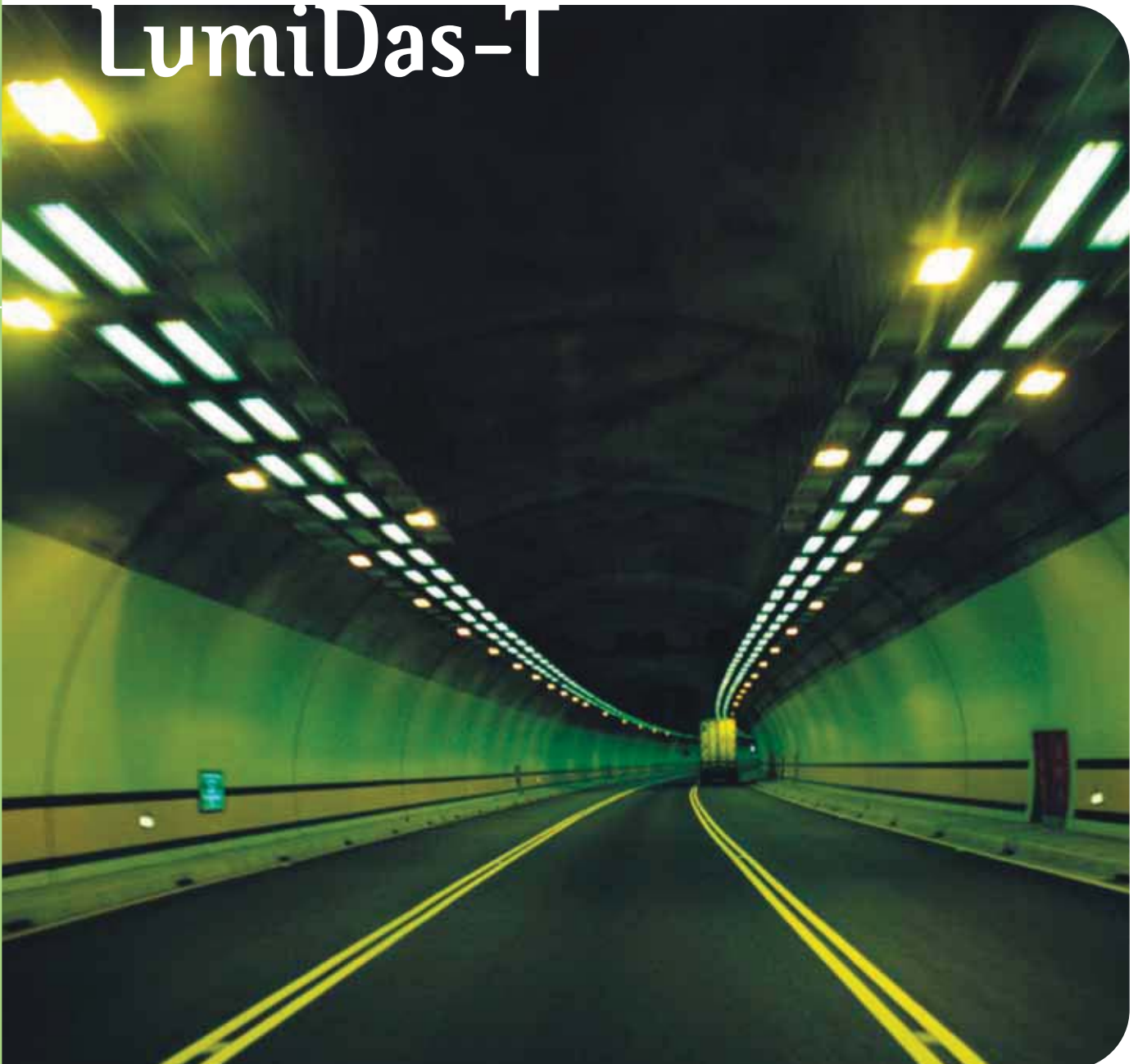


## 07 LumiDas-T Tunnel Lamps

LumiDas-T LED tunnel lamps replace existing tunnel light.  
They consume much less energy than conventional tunnel lamps.  
The tunnel lamps are slim and shock-resistant.

- Designed for optimal heat dissipation
- Instant activation
- Wide range of input voltage (AC 100–280V, 50/60Hz)
- Low temperature maintained by superb heat dissipation systems
- Consume much less power than traditional tunnel lights
- Eco-friendly: No Mercury, no Lead, and no Cadmium
- Long lifetime (30,000~50,000 hours)
- Save maintenance cost due to long lifetime
- Waterproof and dustproof
- Built-in Fawoo converter

# LumiDas-T





# 55W



TL55-100/280VS (PF)

# 80W

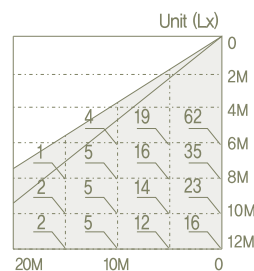
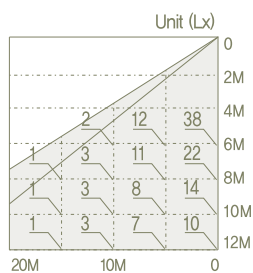


TL80-100/280VS (PF)

H460×W420×D94  
 9.8  
 55  
 AC100 - 280V, 50/60Hz  
 0.9  
 Pure White  
 130  
 80  
 30,000~50,000  
 -20°C ~ 35°C  
 FPU5055A  
 66  
 168

H460×W420×D94  
 9.9  
 80  
 AC100 - 280V, 50/60Hz  
 0.9  
 Pure White  
 130  
 80  
 30,000~50,000  
 -20°C ~ 35°C  
 FPU5080A  
 66  
 168

Size (mm)  
 Weight (Kg)  
 Power Consumption (W/h)  
 Input Voltage (V)  
 Power Factor  
 Color Temperature  
 Beam Angle (°)  
 Luminous Efficacy (lm/W)  
 Life Time (hours)  
 Operating Ambient Temperature  
 Converter (Built-in Type)  
 IP Grade  
 Salt Water Spray Test (hours)





# 07 LumiDas-E

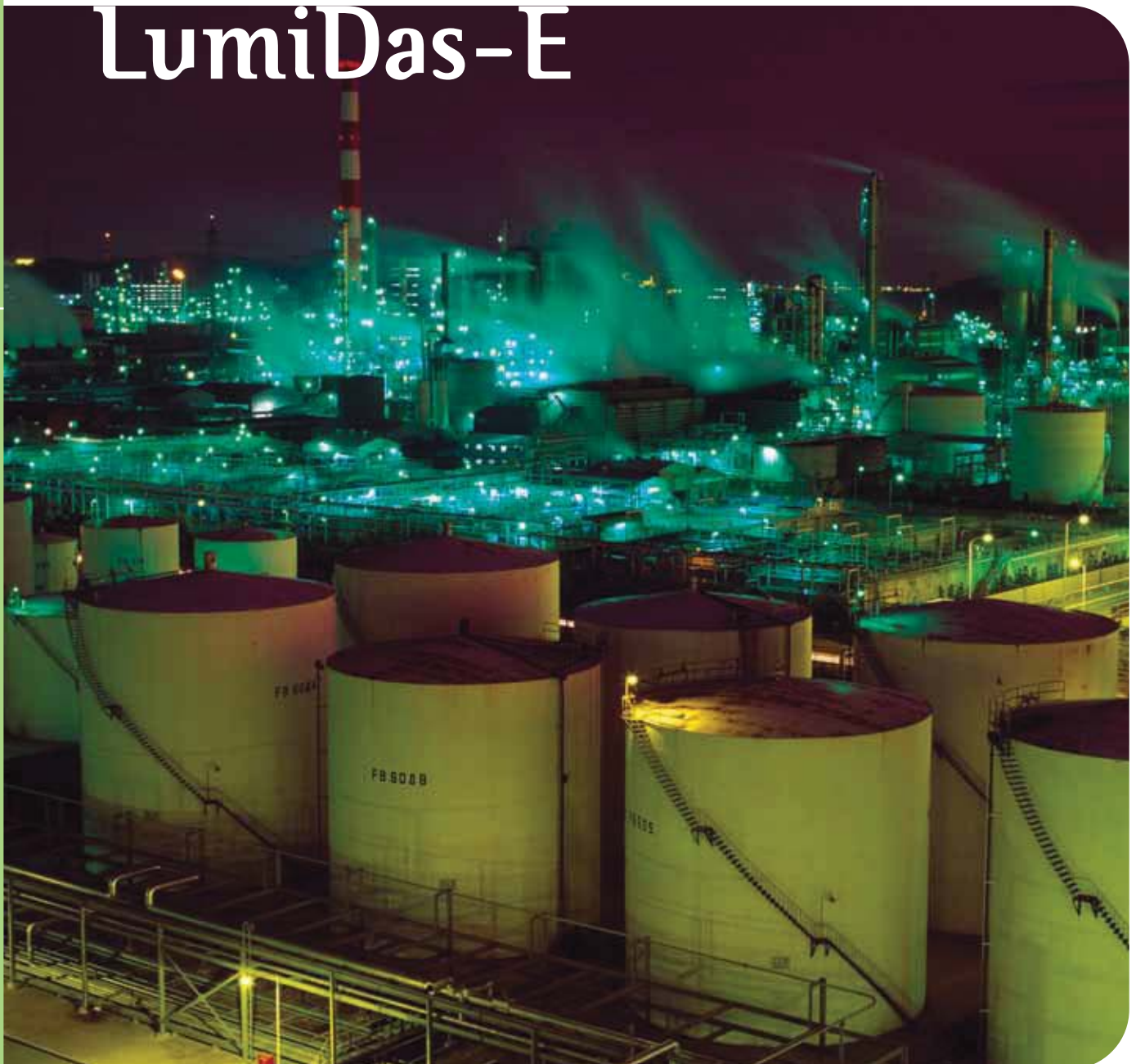
## Explosion-Proof Lamps B Type

Ex d II B+H<sub>2</sub> T6 IP65

Fawoo Explosion-Proof Lamps replace existing explosion-proof lamps. They are lighter and more convenient to use, and look much better than existing explosion-proof lamps.

- Light and convenient to use
- Durable and shock resistant
- No risk of fire or explosion of lamps
- Low Temperature maintained by superb heat dissipation systems
- Consume less energy than existing explosion proof lamps
- Eco-friendly: No Mercury, no Lead and no Cadmium
- Long lifetime (30,000~50,000 hours)
- Instant activation
- Save maintenance cost
- Wide range of voltage (AC 100~240V, 50/60Hz)

# LumiDas-E





**LumiDas-E lamps obtained the international LED Explosion-Proof Lamp Certification (IECEX) for general lighting in hazardous areas. (ATEX pending)**

*tip*

## 16W

## 22W

## 35W

## 55W

## 75W

EX16-AFBDF (PF)  
EX16-AFBDF (WF)  
EX22-AFBDF (PF)  
EX22-AFBDF (WF)  
EX35-AFBDF (PF)  
EX35-AFBDF (WF)

45°

EX16-AFBDR (PF)  
EX16-AFBDR (WF)  
EX22-AFBDR (PF)  
EX22-AFBDR (WF)  
EX35-AFBDR (PF)  
EX35-AFBDR (WF)

90°

EX55-AFBDF (PF)  
EX55-AFBDF (WF)  
EX75-AFBDF (PF)  
EX75-AFBDF (WF)

45°

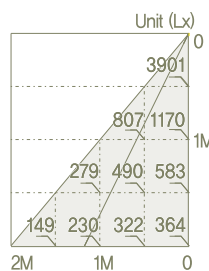
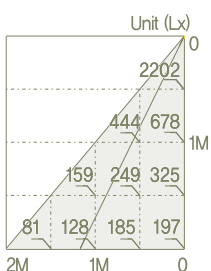
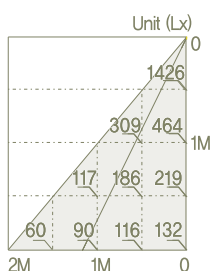
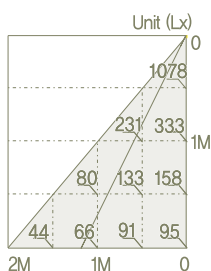
EX55-AFBDR (PF)  
EX55-AFBDR (WF)  
EX75-AFBDR (PF)  
EX75-AFBDR (WF)

90°

EX55-AFBD (PF) EX75-AFBD (PF)  
EX55-AFBD (WF) EX75-AFBD (WF)

EX16-AFBD (PF) EX22-AFBD (PF) EX35-AFBD (PF)  
EX16-AFBD (WF) EX22-AFBD (WF) EX35-AFBD (WF)

Ø180×334	Ø180×334	Ø180×334	Ø321×514	Ø321×514	Size (mm)
2.9	2.9	2.9	8.7	8.7	Weight (Kg)
16	22	35	55	75	Power Consumption (W/h)
AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	Input Voltage (V)
0.9	0.9	0.9	0.9	0.9	Power Factor
Warm White / Pure White	Warm White / Pure White	Warm White / Pure White	Warm White / Pure White	Warm White / Pure White	Color Temperature
110	110	110	110	110	Beam Angle (°)
80	80	80	80	80	Luminous Efficacy (lm/W)
30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	Lifetime (hours)
-20°C ~ 35°C	-20°C ~ 35°C	-20°C ~ 35°C	-20°C ~ 35°C	-20°C ~ 35°C	Operating Ambient Temperature
EX d    B + H <sub>2</sub> T6	EX d    B + H <sub>2</sub> T6	EX d    B + H <sub>2</sub> T6	EX d    B + H <sub>2</sub> T6	EX d    B + H <sub>2</sub> T6	Explosion-Proof Standard Grade
65	65	65	65	65	IP Grade





# 07 LumiDas-E

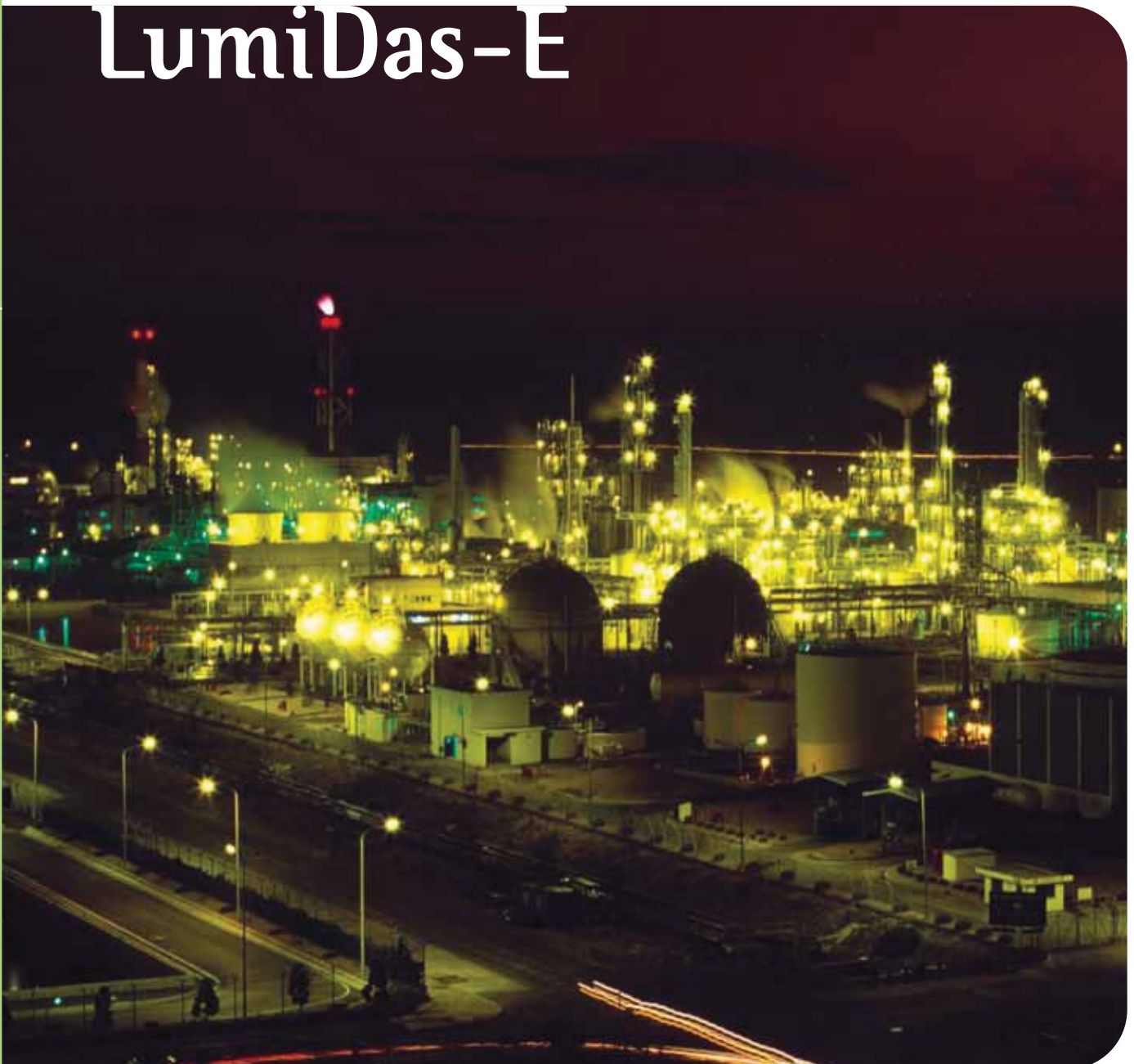
## Explosion-Proof Lamps C Type

Ex d II C T6 IP65

Fawoo Explosion-Proof Lamps replace existing explosion-proof lamps. They are lighter and more convenient to use, and give greater visual effects than existing explosion-proof lamps.

- Use accredited and patented quality LED chips only
- Light and convenient to use
- Durable and shock resistant
- Low temperature maintained by superb heat dissipation systems
- Consume less energy than existing explosion proof light
- Eco-friendly: No Mercury, no Lead and no Cadmium
- Long lifetime (30,000~50,000 hours)
- Instant activation
- Save maintenance cost
- Wide range of input voltage (AC 100~240V, 50/60Hz)

# LumiDas-E





LumiDas-E lamps obtained the international LED Explosion-Proof Lamp Certification (IECEX) for general lighting in hazardous areas. (ATEX pending)

tip

16W

22W

35W

55W

75W

EX16-AFCDF (PF)  
EX16-AFCDF (WF)  
EX22-AFCDF (PF)  
EX22-AFCDF (WF)  
EX35-AFCDF (PF)  
EX35-AFCDF (WF)

45°



EX55-AFCDF (PF)  
EX55-AFCDF (WF)  
EX75-AFCDF (PF)  
EX75-AFCDF (WF)

45°



EX16-AFCDR (PF)  
EX16-AFCDR (WF)  
EX22-AFCDR (PF)  
EX22-AFCDR (WF)  
EX35-AFCDR (PF)  
EX35-AFCDR (WF)

90°



EX55-AFCDR (PF)  
EX55-AFCDR (WF)  
EX75-AFCDR (PF)  
EX75-AFCDR (WF)

90°



EX55-AFCD (PF)  
EX55-AFCD (WF)

EX75-AFCD (PF)  
EX75-AFCD (WF)

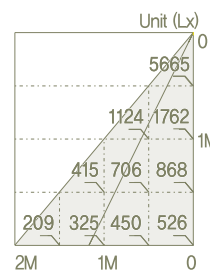
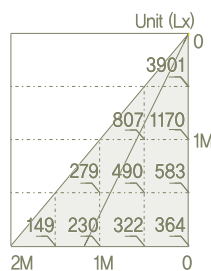
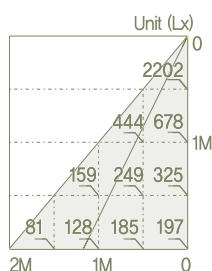
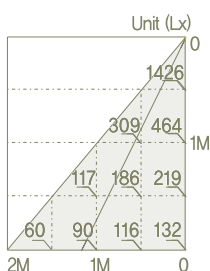
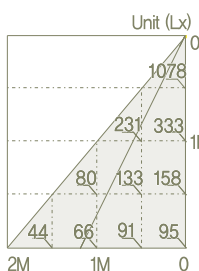
EX16-AFCD (PF)  
EX16-AFCD (WF)

EX22-AFCD (PF)  
EX22-AFCD (WF)

EX35-AFCD (PF)  
EX35-AFCD (WF)

35

	Ø180×334	Ø180×334	Ø180×334	Ø321×514	Ø321×514	Size (mm)
	2.9	2.9	2.9	8.7	8.7	Weight (Kg)
	16	22	35	55	75	Power Consumption (W/h)
AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	Input Voltage (V)
	0.9	0.9	0.9	0.9	0.9	Power Factor
Warm White / Pure White	Warm White / Pure White	Warm White / Pure White	Warm White / Pure White	Warm White / Pure White	Warm White / Pure White	Color Temperature
	110	110	110	110	110	Beam Angle (°)
	80	80	80	80	80	Luminous Efficacy (lm/W)
	30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	Lifetime (hours)
	-20°C ~ 35°C	-20°C ~ 35°C	-20°C ~ 35°C	-20°C ~ 35°C	-20°C ~ 35°C	Operating Ambient Temperature
	EX d IIC T6	EX d IIC T6	EX d IIC T6	EX d IIC T6	EX d IIC T6	Explosion-Proof Standard Grade
	65	65	65	65	65	IP Grade





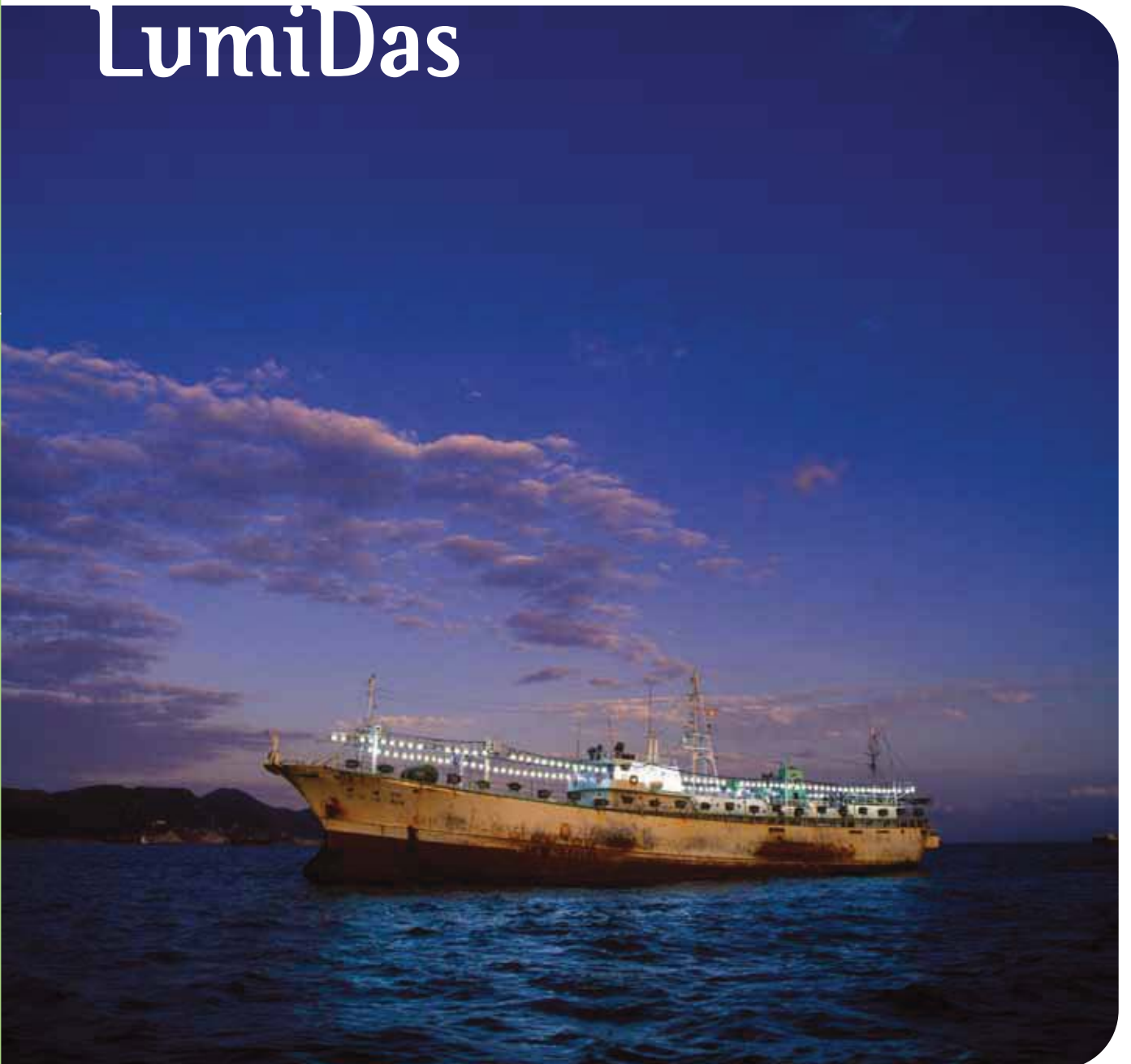


## 07 LumiDas Fish Luring Lamps

LumiDas Fish Luring Lamps save 80~90% of fuels for generating electricity. Especially, they protect fishermen from getting burnt unlike conventional HID lamps.

- No risk of skin burn due to low proper lamp temperature and no UV rays
- Provide safe and easy work environment for long lining fishermen
- Save over 80~90% of energy/fuel consumption for generating electricity compared to existing fish luring lamps
- Downsizing the generator lightens a fishing vessel 3 or 4 tons, thus reduce energy consumption for sailing and increase the speed of the vessel
- Low maintenance costs due to long lifetime (30,000~50,000 hours)
- Durable solid structure without glass components

# LumiDas



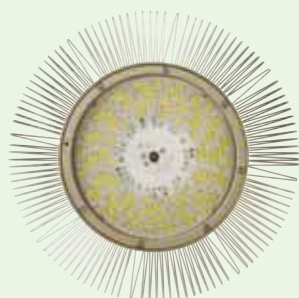


### Benefits of Fawoo LED Fish Luring Lamps were proved in Korean Sea

- Fishing tests in Jeju Island and East Sea(Sea of Japan) in Korea simultaneously with fishing vessels with conventional lamps successfully showed that the fishing vessel with Fawoo LED fish luring lamps have been far better off.
- Surface treatment to protect the lamps from sea water and UV rays
- Easy to install (Built-in converter)
- Save significant fuel costs due to low power consumption

tip

# 80W

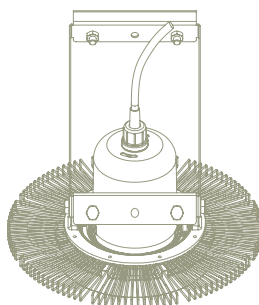
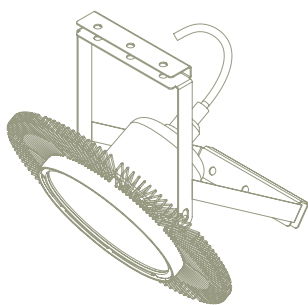


LD80-200/280VH (BFD)  
Blue



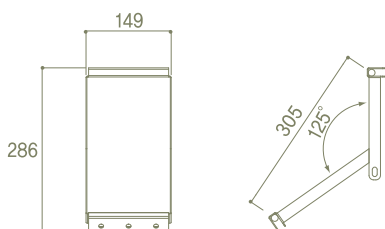
LD80-200/280VH (WFD)  
Warm White

LD80-200/280VH (PFD)  
Pure White

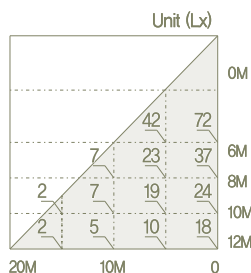


How to install a fixing bracket

Ø290×H190	Size (mm)
2.1	Weight (Kg)
80	Power Consumption (W/h)
AC 200-280V, 50/60Hz	Input Voltage (V)
0.9	Power Factor
Blue   Warm White   Pure White	Color Temperature
110	Beam Angle (°)
30,000~50,000	Lifetime (hours)
66	IP Grade
168	Salt Water Spray Test (hours)



Fish Luring Lamps Fixing Bracket (BKT-LDH1)





## 07 LumiDas-SL Floodlights

LumiDas-SL Floodlights replace existing indoor and outdoor metal halide floodlights. They focus the beam into one direction to give light on target area more effectively.

- Lighting for buildings, military bases, large building complex, border areas, bridge piers, factories, large shops, indoor and outdoor sports complex, swimming pools, ski resorts, and golf courses
- Instant activation
- Low temperature maintained by superb heat dissipation systems
- Consume less energy than existing floodlights
- Eco-friendly: No Mercury, No Lead and No Cadmium
- Long lifetime (30,000~50,000 hours)
- Save maintenance costs due to long lifetime
- Wide range of input voltage (AC 100~280V, 50/60Hz)
- No infrared & UV rays radiation



# LumiDas-SL



55W

80W

110W

55W

80W

110W

**Indoor**

SL55-100/280VH (PFN/ PFS)  
SL80-100/280VH (PFN/ PFS)  
SL110-200/280VH (PFN/ PFS)



Pendant Type (Indoor Only)

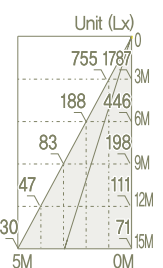
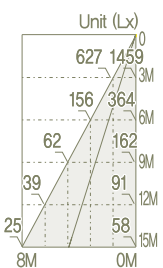
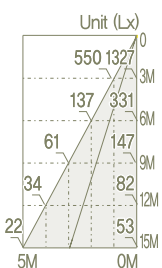
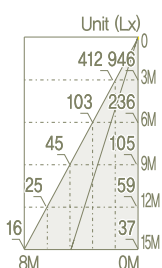
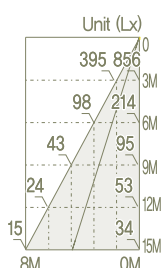
**Indoor & Outdoor**

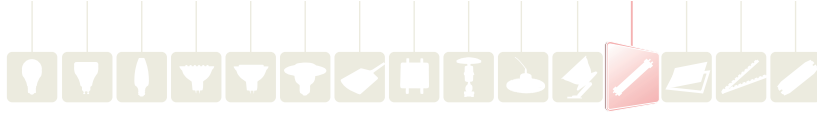
SL55-100/280VS (PFN/ PFS)  
SL80-100/280VS (PFN/ PFS)  
SL110-200/280VS (PFN/ PFS)



Rotating Type

Ø410×1116	Ø410×1220	Ø410×467	Ø410×467	Ø410×467	Ø410×472	Size (mm)
6.3	6.3	8	5.7	5.7	8.6	Weight (Kg)
55	80	110	55	80	110	Power Consumption (W/h)
AC100-280V, 50/60Hz	AC100-280V, 50/60Hz	AC200-280V, 50/60Hz	AC100-280V, 50/60Hz	AC100-280V, 50/60Hz	AC200-280V, 50/60Hz	Input Voltage (V)
0.9	0.9	0.9	0.9	0.9	0.9	Power Factor
Pure White	Pure White	Pure White	Pure White	Pure White	Pure White	Color Temperature
40 / 60	40 / 60	40 / 60	40 / 60	40 / 60	40 / 60	Beam Angle (°)
30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	Lifetime (hours)
5°C ~ 35°C	5°C ~ 35°C	5°C ~ 35°C	-20°C ~ 35°C	-20°C ~ 35°C	-20°C ~ 35°C	Operating Ambient Temperature
NA	NA	NA	65	65	65	IP Grade





## O8 LumiDas-F LED Fluorescent Lamps

LumiDas-F LED Fluorescent Lamps replace conventional fluorescent lamps instantly. Their long lifetime gives you real benefits of very little need of maintenance. With simple functions and compact use, LumiDas-F lamps make your homes, offices, and factories more pleasant and convenient for working.

- Low temperature maintained by superb heat dissipation systems
- Minimum glaring
- Eco-friendly: No Mercury, No Lead and No Cadmium
- Long lifetime (30,000~50,000 hours)
- Save replacement cost due to long lifetime (More than 10 times longevity)

### LumiDas-F





# LumiDas-F LED Fluorescent Lamps: General Type



- Eco-friendly: Low electromagnetic waves and No Mercury
- A Fawoo converter gives stable and coherent brightness of the lamp (UL, CE, PSE, EK listed)

7W

14W

22W

44W



FL07-D2G13S (P)



FL14-D2G13S (P)



FL22-D2G13S (P)



FL44-D2G13S (P)

Ø32×580
200
7
0.32A (MAX DC 24V)
Pure White
110
70
30,000~50,000
5°C ~ 35°C
G13
MCW-2406-W

Use of HPA-2408W makes the lamp brighter with 9W output

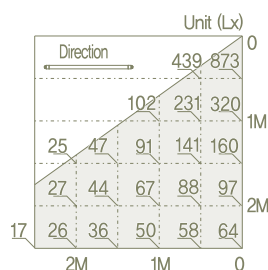
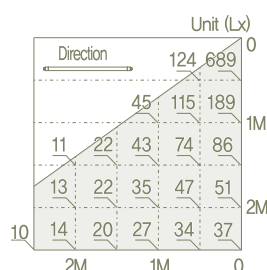
Ø32×1198
400
14
0.64A (MAX DC 24V)
Pure White
110
70
30,000~50,000
5°C ~ 35°C
G13
MCW-2406-W

Use of HPA-2408W makes the lamp brighter with 18W output

Ø32×1500
480
22
1.04A (MAX DC 24V)
Pure White
110
70
30,000~50,000
5°C ~ 35°C
G13
HPA-2420-W

Ø32×2367
780
44
2.08A (MAX DC 24V)
Pure White
110
70
30,000~50,000
5°C ~ 35°C
G13
HPA-2420-W

Size (mm)
Weight (g)
Power Consumption (W/h)
Input Voltage (V)
Color Temperature
Beam Angle (°)
Luminous Efficacy (lm/W)
Lifetime (hours)
Operating Ambient Temperature
Base
Converter





# O8 LumiDas-FS

## LED Fluorescent Lamps : Integrated Type



- Compact design
- Easy and simple to install (built-in converter)

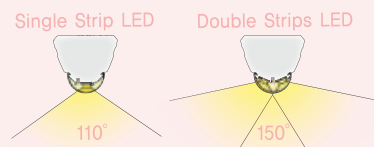
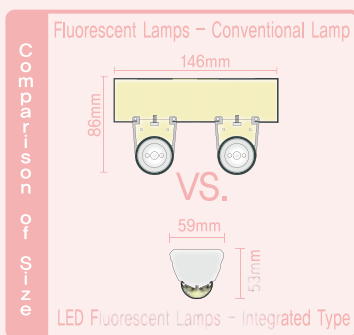
11W

22W

44W

52W

104W



FS11-100/240VS (P)

FS22-100/240VS (P)

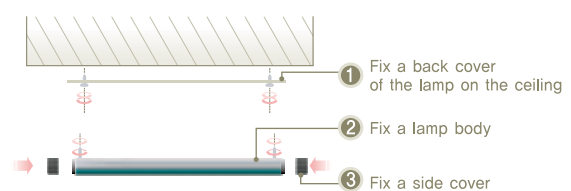
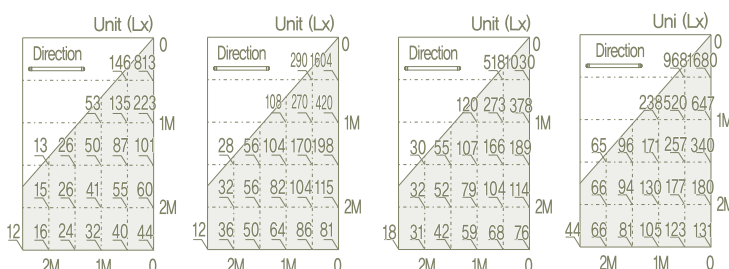
FS52-100/240VS (P)

FS22-100/240VD (P)

FS44-100/240VD (P)

FS104-100/240VD (P)

53×59×598	53×59×598	53×59×1216	53×59×1216	53×59×2385	53×59×2385	Size (mm)
720	770	1300	1580	2550	3080	Weight (g)
11	22	22	44	52	104	Power Consumption (W/h)
AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	Input Voltage (V)
Pure White	Pure White	Pure White	Pure White	Pure White	Pure White	Color Temperature
110	150	110	150	110	150	Beam Angle (°)
70	70	70	70	70	70	Luminous Efficacy (lm/W)
30,000-50,000	30,000-50,000	30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	Lifetime (hours)
5°C ~ 35°C	5°C ~ 35°C	5°C ~ 35°C	5°C ~ 35°C	5°C ~ 35°C	5°C ~ 35°C	Operating Ambient Temperature
HPA-2408-W	HPA-2408-W	HPA-2408-W	HPA-2408-W	HPA-2420-W	HPA-2420-W	Converter
Single Strip LED	Double Strips LED	Single Strip LED	Double Strips LED	Single Strip LED	Double Strips LED	

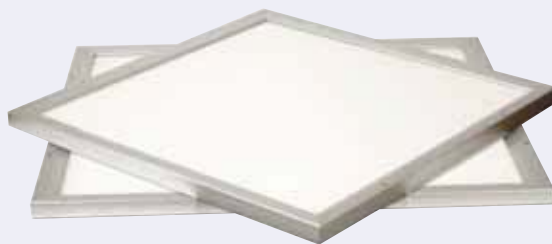




# 09 LumiSheet Lamp

LumiSheet Panel Type LED Lamps replace conventional incandescent lamps with high efficiency.

- Compact interior panel light using LED chips as light sources
- Save energy
- Healthy and comfortable light without glaring
- No toxic substance
- Delicate lights and elegantly designed



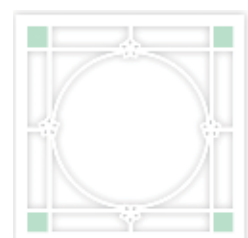
**LSL42-4**  
Aluminum Frame



**LSL-S600**  
Wooden Frame

Dimensions (mm)	600×600×21
Lamp Dimensions (mm)	570×570×8
Weight (Kg)	4.8
Power Consumption (W/h)	40.7
Light Output	282 Lx (at 2.5 m high)
Color Temperature (K)	5,000 ~ 6,000
Lifetime (hours)	30,000~50,000
Input Voltage (V)	DC 12V / 5A
Certification	UL / CE

Dimensions (mm)	598×598×31
Lamp Dimensions (mm)	568×568×8
Weight (Kg)	5.2
Power Consumption (W/h)	40.7
Light Output	282 Lx (at 2.5 m high)
Color Temperature (K)	5,000 ~ 6,000
Lifetime (hours)	30,000~50,000
Input Voltage (V)	DC 12V / 5A
Certification	UL / CE



**LSL-S600 (PI)**





## Features of LumiSheet Lamps

- Passed fire safety test [Passed a glow wire test (at 960°C for 5 seconds) (IEC/EN 60695-2-1/1:2002)]
- Minimal degradation of lamp brightness with anti-static treatment
- UL, CE listed

tip



LSL42-2  
Aluminum Frame

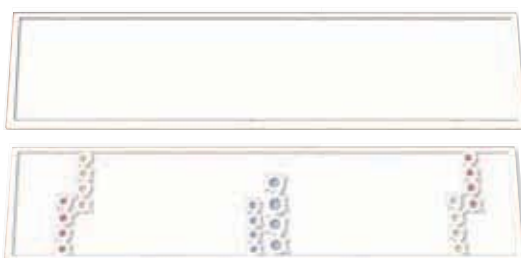


LSL-SI200  
Wooden Frame

1,230×330×31  
1,200×300×8  
6.0  
40.7  
265 Lx (at 2.5 m high)  
5,000 ~ 6,000  
30,000~50,000  
DC 12V / 5A  
UL / CE

1,230×330×21  
1,200×300×8  
5.5  
40.7  
265 Lx (at 2.5 m high)  
5,000 ~ 6,000  
30,000~50,000  
DC 12V / 5A  
UL / CE

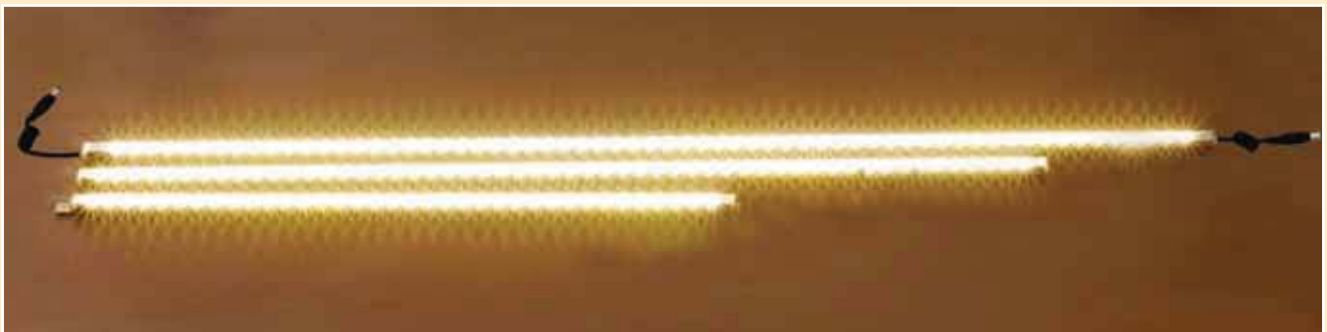
Dimensions (mm)  
Lamp Dimensions (mm)  
Weight (Kg)  
Power Consumption (W/h)  
Light Output  
Color Temperature (K)  
Lifetime (hours)  
Input Voltage (V)  
Certification





# 10 Lumi-M-Stick

Lumi-M-Stick is a bar type lamp made of white LED chips. Features include, high light output, low power consumption, long lifetime, and no ballast and complicated wiring. Lumi-M-Sticks replace conventional fluorescent lamps where the fluorescent lamps are used, such as signage, shelves, under-cabinet, and decoration. Lumi-M-Stick is installed quickly with built-in magnets or adhesive tapes.



	Model	Size	No. of LED chips	Power Consumption	Luminous Efficacy	Options
	LMS300-BH	300 (L) × 18.8 (W) × 10.4 (H)	18	4.5	80 (lm/W)	Beam Angle-horizontal type
	LMS580-BH	580 (L) × 18.8 (W) × 10.4 (H)	36	9		
	LMS860-BH	860 (L) × 18.8 (W) × 10.4 (H)	54	13.5		
	LMS1000-BH	1000 (L) × 18.8 (W) × 10.4 (H)	63	15.8		
	LMS1140-BH	1140 (L) × 18.8 (W) × 10.4 (H)	72	18		
	LMS1420-BH	1420 (L) × 18.8 (W) × 10.4 (H)	90	22.5		
<b>Basic Type</b> UL Approved	LMS300-BA	300 (L) × 18.8 (W) × 10.4 (H)	18	4.5	80 (lm/W)	Beam Angle-asymmetry 27°
	LMS580-BA	580 (L) × 18.8 (W) × 10.4 (H)	36	9		
	LMS860-BA	860 (L) × 18.8 (W) × 10.4 (H)	54	13.5		
	LMS1000-BA	1000 (L) × 18.8 (W) × 10.4 (H)	63	15.8		
	LMS1140-BA	1140 (L) × 18.8 (W) × 10.4 (H)	72	18		
	LMS1420-BA	1420 (L) × 18.8 (W) × 10.4 (H)	90	22.5		
<b>Basic Type</b> CE Approved	LMS-300	300 (L) × 18.8 (W) × 10.4 (H)	18	4.5	80 (lm/W)	Beam Angle-horizontal type and asymmetry 27°
	LMS-580	580 (L) × 18.8 (W) × 10.4 (H)	36	9		
	LMS-860	860 (L) × 18.8 (W) × 10.4 (H)	54	13.5		
	LMS-1000	1000 (L) × 18.8 (W) × 10.4 (H)	63	15.8		
	LMS-1140	1140 (L) × 18.8 (W) × 10.4 (H)	72	18		
	LMS-1420	1420 (L) × 18.8 (W) × 10.4 (H)	90	22.5		
<b>Connector Type</b> UL Approved	LMS330-CH	330 (L) × 18.8 (W) × 12.7 (H)	18	4.5	80 (lm/W)	Beam Angle-horizontal type only
	LMS610-CH	610 (L) × 18.8 (W) × 12.7 (H)	36	9		
	LMS890-CH	890 (L) × 18.8 (W) × 12.7 (H)	54	13.5		
	LMS1030-CH	1030 (L) × 18.8 (W) × 12.7 (H)	63	15.8		
	LMS1170-CH	1170 (L) × 18.8 (W) × 12.7 (H)	72	18		
	LMS1450-CH	1450 (L) × 18.8 (W) × 12.7 (H)	90	22.5		

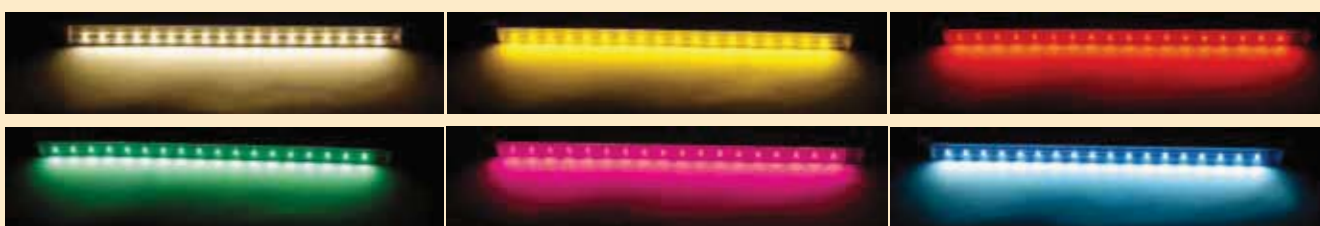
Length of Angle Adjusting Plate is 30mm so please refer it if you design somewhere.



Connector Type

- Input Voltage: DC12V
- Color Temperature: Warm White, Pure White
- Various light colors available (White, Red, Green, Blue, Yellow, and Pink)
- Operating Ambient Temperature: -30°C (-40°F) to +40°C (104°F)
- CE, UL listed
- Passed a Glow Wire Test [(at 960°C for 5 seconds) (IEC/EN 60695-2-1/1:2002)]

## Diverse colors of Lumi-M-Sticks



- Wide variety of colors can be selected to fit for customer purposes. (Colors are options)
- Various colors such as basic (white), red, yellow, green, blue, and pink.

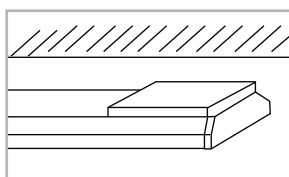
## Lumi-M-Stick Frame

Basic color of the frame is silver and elegant white-coating color (color of white refrigerator) is available.

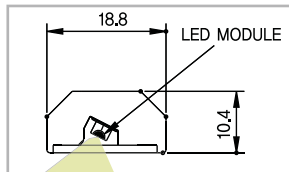


### Magnets and Adhesive Tapes

Easy and fast installation using magnets or adhesive tapes

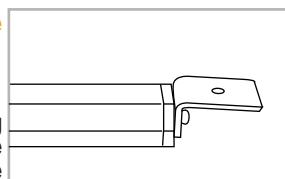


**Basic 27°**  
(You can choose light reflection angle)



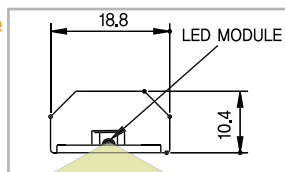
### Angle Adjusting Plate

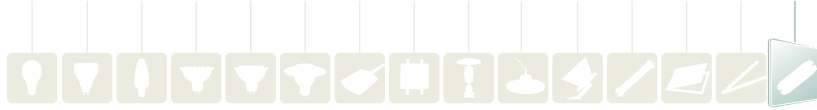
- Easy to adjust bar fixing angles using an angle adjusting plate



### Symmetry Horizontal Type

(You can choose light reflection angle)





# 11 Converters

## LumiDas-H

## LumiSheet / Lumi-M-Stick / LumiDas-H



Model	HPA-1208-WJ	HPA-1208-WE	HPA-1208-WU	HPA-1250-WJ	HPA-1250-WE	HPA-1250-WU
Output Voltage	DC 12V / 0.8A			DC 12V / 5A		
Input Voltage	AC 100-240V, 50/60Hz			AC 100-240V, 50/60Hz		
Power Capacity	10W			60W		
Certifications	PSE	CE	UL, FCC, Class 2	PSE	CE	UL, FCC, Class 2
Applicable Areas	Japan	Europe	N. America	Japan	Europe	N. America

## LumiDas-F / LumiDas-FS



Model	MCW-2406-W			HPA-2408-WJ	HPA-2408-WE	HPA-2408-WU	HPA-2420-WJ	HPA-2420-WE	HPA-2420-WU
Output Voltage	DC 24V / 0.6A			DC 24V / 0.8A			DC 24V / 2.5A		
Input Voltage	AC 100-240V, 50/60Hz			AC 100-240V, 50/60Hz			AC 100-240V, 50/60Hz		
Power Capacity	15W			20W			50W		
Certifications	PSE	CE	UL	PSE	CE	UL, FCC, Class 2	PSE	CE	UL, FCC, Class 2
Applicable Areas	Japan	Europe	N. America	Japan	Europe	N. America	Japan	Europe	N. America



## LumiSheet / Lumi-M-Stick



**DSA-12W-10F**

DC 12V / 1.0A  
 AC 100-240V, 50/60Hz  
 12W  
 UL / CE / EK / PSE  
 Wall Mount  
 LumiSheet, Lumi-M-Stick



**DSA-0421S**

DC 12V / 3.0A  
 AC 100-240V, 50/60Hz  
 36W  
 UL / CE / EK / PSE  
 Desktop  
 LumiSheet, Lumi-M-Stick



**DSA-60W**

DC 12V / 5.0A  
 AC 100-240V, 50/60Hz  
 60W  
 UL / CE / EK / PSE  
 Desktop  
 LumiSheet, Lumi-M-Stick

Output Voltage  
 Input Voltage  
 Power Capacity  
 Certification  
 Type  
 Applications

## 3P Connector Type



**MCW-4803-13**

DC 12V / 3.0A  
 AC 100-240V, 50/60Hz  
 36W  
 UL / CE / EK / PSE  
 Desktop  
 LumiSheet, Lumi-M-Stick



**MCW-4803-15**

DC 12V / 5.0A  
 AC 100-240V, 50/60Hz  
 60W  
 UL / CE / EK / PSE  
 Desktop  
 LumiSheet, Lumi-M-Stick

**MCW-4803-C3**

DC 12V / 3.0A  
 AC 100-240V, 50/60Hz  
 36W  
 UL / CE / EK / PSE  
 Desktop  
 LumiSheet, Lumi-M-Stick

**MCW-4803-C5**

DC 12V / 5.0A  
 AC 100-240V, 50/60Hz  
 60W  
 UL / CE / EK / PSE  
 Desktop  
 LumiSheet, Lumi-M-Stick

Output Voltage  
 Input Voltage  
 Power Capacity  
 Certification  
 Type  
 Applications



**FAWOO** TECHNOLOGY

| To improve lamp quality, changes and updates in specification may be made without prior notice |