



Eco-Friendly

This catalog is made of pulp using non-chlorinated bleaching process (ECF) and certified as a FSC (Forest Stewardship Council) product. We practice Green Environment.



FAWOO TECHNOLOGY

The Natural Light You Look For LED Lighting Solutions

LumiDas • LumiDas-H • LumiDas-F • LumiDas-S • LumiDas-SP • LumiDas-SL • LumiDas-T • LumiDas-E • LumiSheet Lamp • Lumi-M-Stick

FAWOO TECHNOLOGY

2BL 6LT, Ojeong Industrial Complex, Ojeong-dong, Ojeong-gu, Bucheon-si, Gyeonggi-do, (zip)421-170, Republic of Korea
TEL : +82-32-670-3231 / FAX : +82-32-670-3101 / www.fawoo.com



CONTENTS



GREEN ENERGY
NATURAL LIGHT



01

Integral LED Lamps
replacing halogen lamps
LumiDas-H (Spotlight type)
3W / 4W 06
5W / 8W 07
16W / 22W / 35W 08
5W 09



02

Integral LED Lamps replacing incandescent lamps
and discharge lamps/CFL
LumiDas-H (Diffusion type)
4W /8W / 4W(L), 8W(L) 10
16W/ 22W / 35W 11



03

Integral LED Lamps replacing incandescent lamps and
discharge lamps/CFL
LumiDas Classic (Non-isolation type)
3W / 4W 14
8W 15
16W 16
22W 17
52W / 72W 18
55W / 80W 19



04

Special Lightings
Streetlights **LumiDas-S** 20
Tunnel Lamps **LumiDas-T** 22
Parking Lot Lamps **LumiDas-SP** 24
Explosion-Proof Lamps **LumiDas-E** 26
Fish Luring Lamps **LumiDas** 30
Floodlights **LumiDas-SL** 32



06

Panel Type LED Lamps
LumiSheet Lamps
38



08

Converters
42



05

Replacement Lamps
for Conventional Fluorescent Lamps
LumiDas-F • FS
34



07

Bar Type LED Lamps
Lumi-M-Stick
40



About FAWOO

Fawoo Technology, the Global Leader in the LED Lighting Industry

For the last several years, we have intensively invested in human resources and R&D in LED lightings. As a result, Fawoo Technology has successfully positioned in Korea as the best manufacturer of LED lightings. Our goal is to receive the same recognition in the global lighting market with our LED lamps in the near future.

Our LED lamps are manufactured by the world best technology protected by domestic and international patents. They include the most optimal heat dissipation technology and the light guiding lens which produces the highest light transmitting efficacy.

We have developed a full line of quality LED lamps from indoor integral replacement lamps to street lamps and explosion-proof lamps ranging from 3W to 150W. As you see in this catalog, our LED lamps fit your need for lighting at home, shops, workplaces, parking lots, streets, and any place you need lighting.

Overall benefits of Fawoo LED lamps are;

- World best patented heat dissipation technology
- World best light guiding lens; Light transmitting efficacy over 90%
- High luminous efficacy, high energy efficiency, and reduced electricity costs and maintenance costs
- Power factor over 0.90
- Generation of CO₂ emission rights under the JI/CDM/VER
- UL and CE listed
- Wide range of products from MR16 to PAR Lamps, Street Lights and Explosion-Proof Lamps
- Design Award; IF (Germany), Good Design (Korea), Design Mark (Australia)
- Eco-friendly lamps; no Mercury and no Cadmium
- Warranty up to 3 years
- Only certified high-quality Japanese LED chips used
- Continuous R&D for new advanced products

With ever-improving quality and cost-saving, we are striving to meet your need to save not only electricity costs but also initial purchase costs. For this, we developed a new business model in which our customers can purchase our LED lamps while paying less by earning CO₂ emission rights through the Clean Development Mechanism under the Kyoto Protocol.

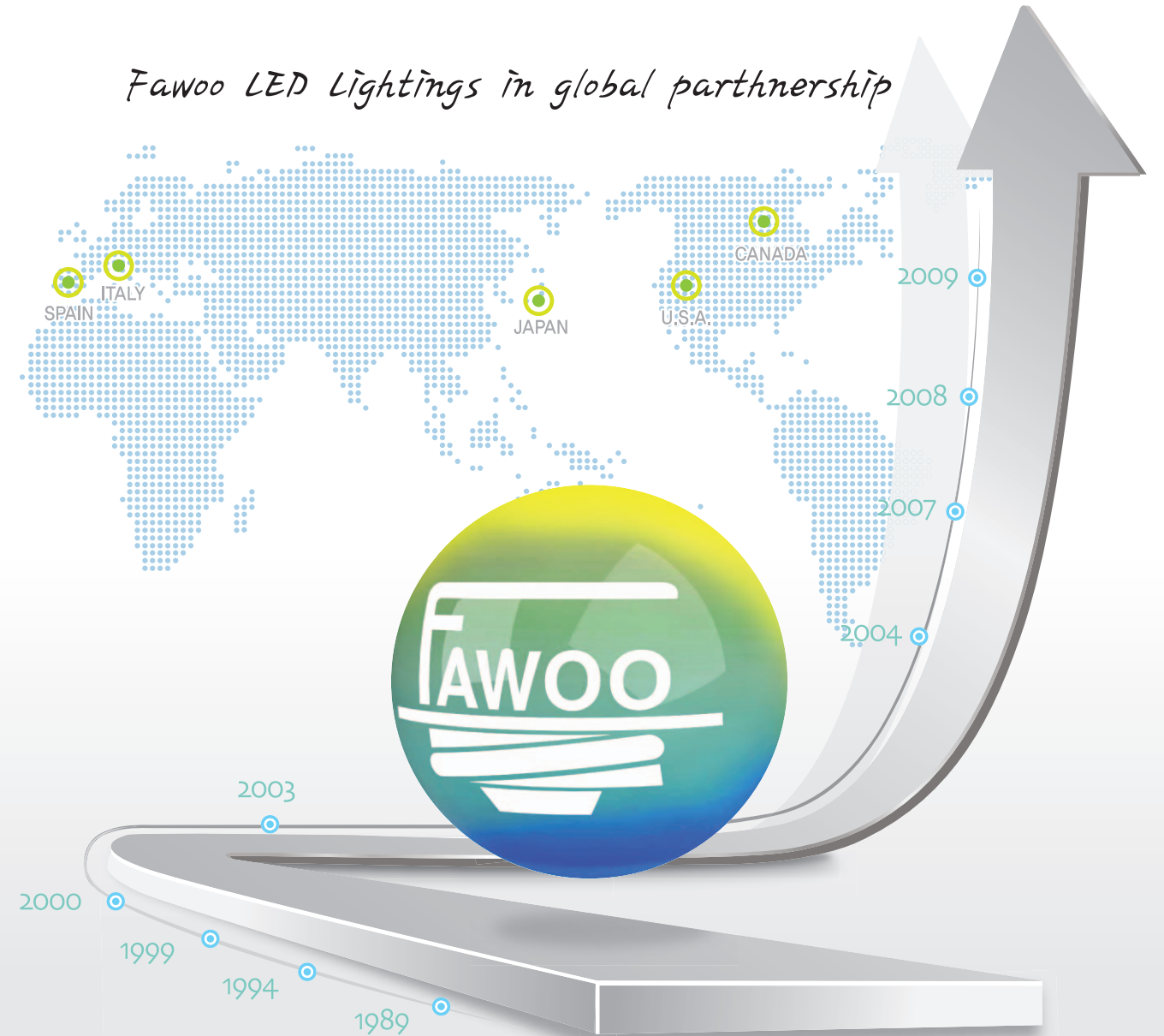
Using or replacing with our LED lamps can not only save electricity but also save the environment. With growing global demands for green energy policy, our LED lighting solution has been in the spotlight. LED lighting has proved it as a simple but most effective tool for saving energy and generating CO₂ emission rights which will ultimately benefit end-users.

We sincerely appreciate your support and expectation. We promise Fawoo Technology will continue to invest in R&D for better LED products and we will always take a pivotal role in preserving the environment.

CEO Young-Ho Yoo

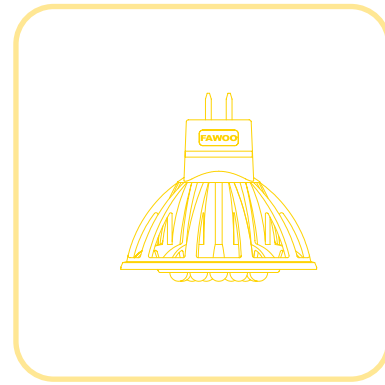
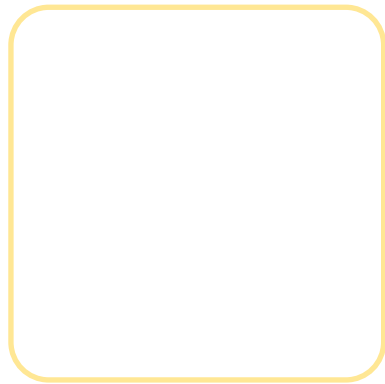
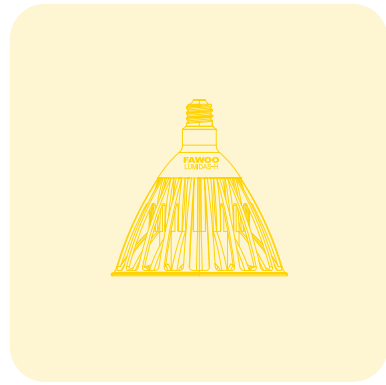


Fawoo LED Lightings in global partnership



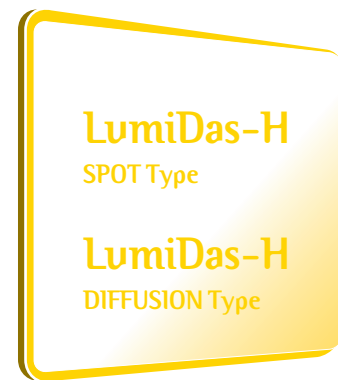
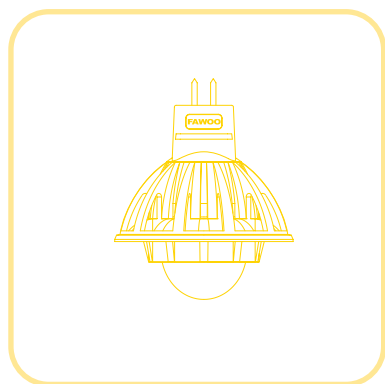
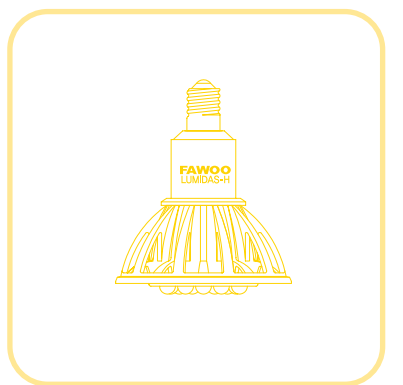
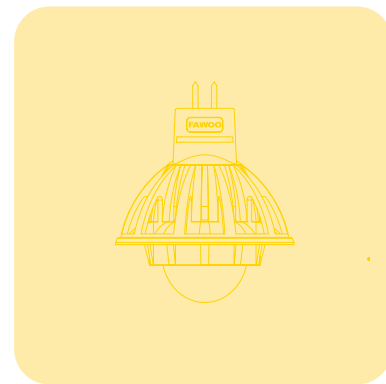
Footprint

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



LumiDas-H

LumiDas-H lamps are integral replacement lamps both for indoor and outdoor uses. LumiDas-H lamps save 70~ 80% of electricity consumed by conventional lamps. While they can last up to 100,000 hours under optimum operation conditions, We provide 3 years warranty for LumiDas-H lamps.



Features

- Beautifully designed to artistically represent an image of a flower
- Low temperature maintained by superb heat dissipation systems (3W: ambient temperature + 26℃ 5W: ambient temperature + 20℃)
- 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

01 LumiDas-H SPOT Type Indoor Lamps

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



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

3W

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



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

4W

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

5W

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



LH05-DIE10S (WNS)
LH05-DIE10S (PNS)



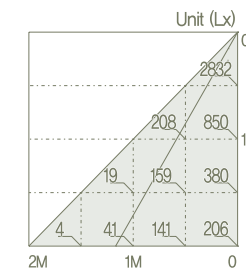
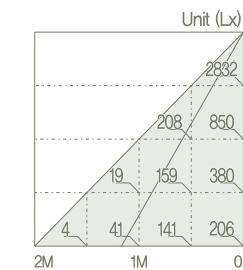
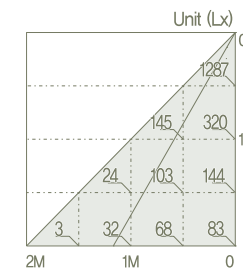
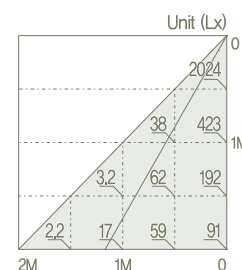
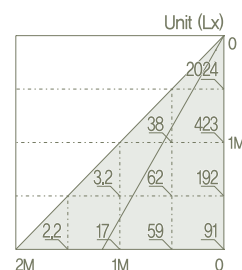
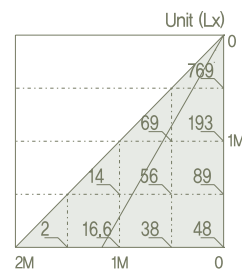
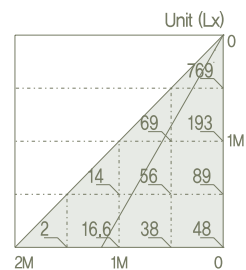
LH08-AFE26S (WNS)
LH08-AFE26S (PNS)
LH08-AFE27S (WNS)
LH08-AFE27S (PNS)



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

Long Type

	Ø50×H52	Ø50×H52	Ø95×H99	Ø95×H131	Ø70×H76	Ø95×H99	Ø95×H131	Size (mm)
Weight (g)	38	38	177	184	81	179	186	Weight (g)
Power Consumption (W/h)	3	3	4	4	5	8	8	Power Consumption (W/h)
Input Voltage (V)	AC/DC 12V	DC 10V (0.240A)	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	DC 10V (0.384A)	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	Input Voltage (V)
Power Factor	-	-	0.9	0.9	-	0.9	0.9	Power Factor
Color Temperature	Warm White / Pure White	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
Beam Angle (°)	60	60	60	60	60	60	60	Beam Angle (°)
Luminous Efficacy (lm/W)	80	80	80	80	80	80	80	Luminous Efficacy (lm/W)
Lifetime (hours)	30,000~50,000	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)
Operating Ambient Temperature	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C	Operating Ambient Temperature
Base	GU5.3	GU5.3	E26 / E27	E26 / E27	EZ10	E26 / E27	E26 / E27	Base
Certification	UL / CE	UL / CE	UL / CE	UL / CE		UL / CE	UL / CE	Certification



LH03-D1G05S, LH03-M1G05S must be used with Fawoo converter (HPA-1208-W). <Please see p.42>

LH05-D1E10S must be used with Fawoo converter (HPA-1208-W). <Please see p.42>



01 LumiDas-H SPOT Type Indoor Lamps



• Designed to represent an image of a tulip

16W

22W

35W

5W



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



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



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

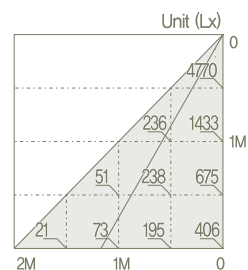


LH05 -MIG05M (WNS)
LH05 -MIG05M (PNS)

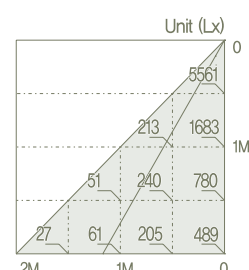


LH05 -MIG05T (WNS)
LH05 -MIG05T (PNS)

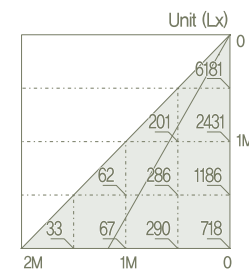
Size (mm)	Ø122×H155
Weight (g)	535 / 555
Power Consumption (W/h)	16
Input Voltage (V)	AC100-240V, 50/60Hz
Power Factor	0.9
Color Temperature	Warm White / Pure White
Beam Angle (°)	60
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	E26 / E27



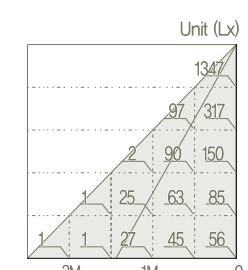
Size (mm)	Ø152×H155
Weight (g)	624 / 644
Power Consumption (W/h)	22
Input Voltage (V)	AC100-240V, 50/60Hz
Power Factor	0.9
Color Temperature	Warm White / Pure White
Beam Angle (°)	60
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	E26 / E27



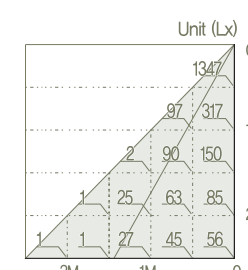
Size (mm)	Ø180×H185
Weight (g)	1067 / 1087
Power Consumption (W/h)	35
Input Voltage (V)	AC100-240V, 50/60Hz
Power Factor	0.9
Color Temperature	Warm White / Pure White
Beam Angle (°)	60
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	E39 / E40



Size (mm)	Ø50×H71
Weight (g)	70
Power Consumption (W/h)	5.6
Input Voltage (V)	AC/DC 12V
Power Factor	-
Color Temperature	Warm White / Pure White
Beam Angle (°)	60
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	GU5.3



Size (mm)	Ø50×H72
Weight (g)	70
Power Consumption (W/h)	5.6
Input Voltage (V)	AC/DC 12V
Power Factor	-
Color Temperature	Warm White / Pure White
Beam Angle (°)	60
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	GU5.3





O2 LumiDas-H DIFFUSION Type Indoor Lamps



Features of Outdoor Lamps

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

tip

4W



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

8W



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

4W
8W



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)

Indoor/Outdoor 16W



LH16-AFE26S (WFD)
LH16-AFE26S (PFD)
LH16-AFE27S (WFD)
LH16-AFE27S (PFD)

Indoor/Outdoor 22W



LH22-AFE26S (WFD)
LH22-AFE26S (PFD)
LH22-AFE27S (WFD)
LH22-AFE27S (PFD)

Indoor/Outdoor 35W



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

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

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	-30°C ~ 40°C
Base	E26 / E27

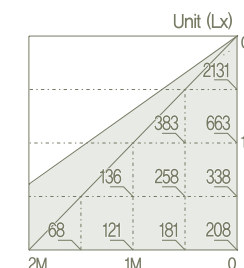
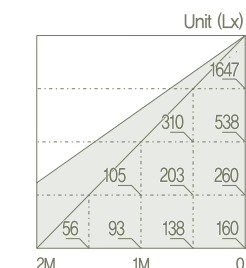
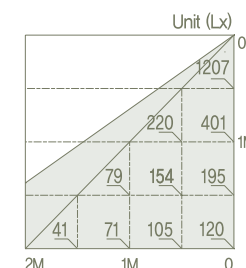
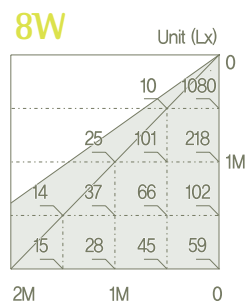
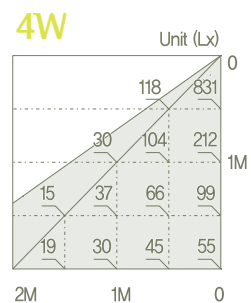
Size (mm)	Ø95×H104
Weight (g)	195
Power Consumption (W/h)	8
Input Voltage (V)	AC100-240V, 50/60Hz
Power Factor	0.9
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	E26 / E27

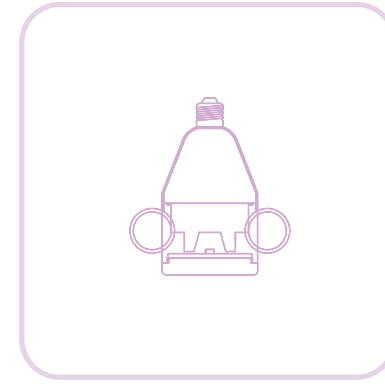
Size (mm)	Ø95×H136
Weight (g)	200 / 201
Power Consumption (W/h)	4 / 8
Input Voltage (V)	AC100-240V, 50/60Hz
Power Factor	0.9
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	E26 / E27

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	-30°C ~ 40°C
Base	E26 / E27
Salt Water Spray Test (hours)	168
Certification	UL / CE

Size (mm)	Ø152×H160
Weight (g)	730 / 750
Power Consumption (W/h)	22
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	-30°C ~ 40°C
Base	E26 / E27
Salt Water Spray Test (hours)	168
Certification	UL / CE

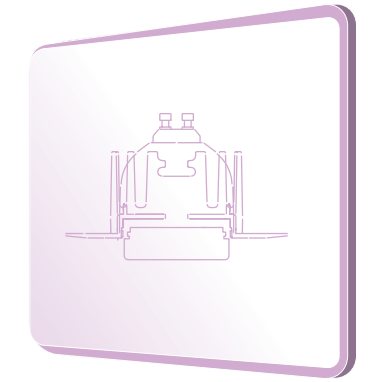
Size (mm)	Ø180×H190
Weight (g)	1152 / 1172
Power Consumption (W/h)	35
Input Voltage (V)	AC100-240V, 50/60Hz
Power Factor	0.9
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	E39 / E40
Salt Water Spray Test (hours)	168
Certification	UL / CE





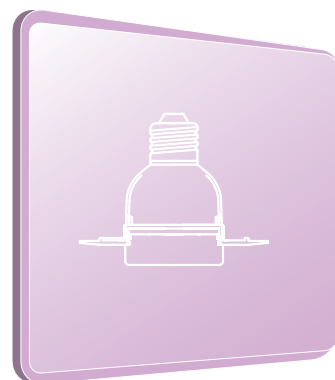
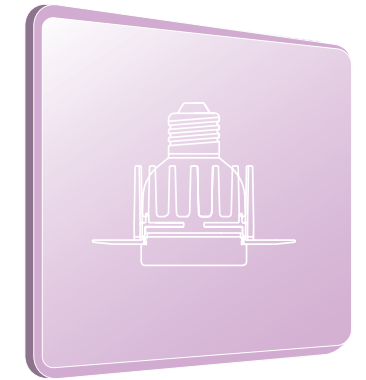
LumiDas Classic

LumiDas Classic lamps replace conventional indoor and outdoor lamps saving over 70-80% of power consumption of conventional lamps. Their long lifetime of 30,000-50,000 hours also reduces 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)





03 LumiDas Indoor Lamps

LumiDas 3W, 4W and 8W lamps are indoor lights for homes, shops, halls, classrooms, and offices. They can be used as recessed, surface and pendant-mounted downlights. Especially, they give elegant and soft light comfortable to human eyes.

3W

4W

8W



KLD-03



KLD-04



KLD-04GU10



KLD-08



KLD-08L



KLD-08GU10

Size (mm)	Ø100×H81
Weight (g)	130
Power Consumption (W/h)	3
Input Voltage (V)	AC 220V, 50/60Hz
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	E27

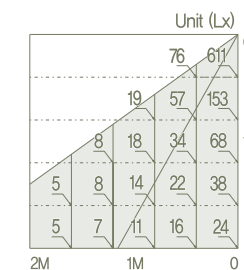
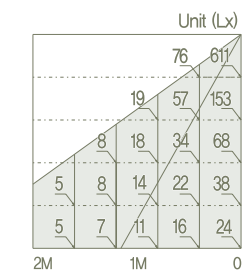
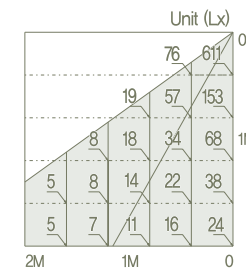
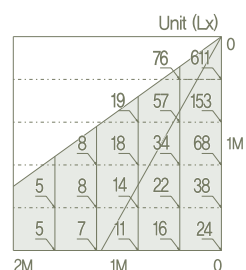
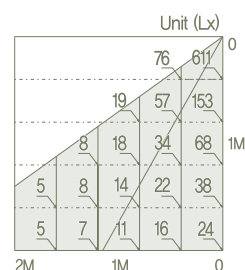
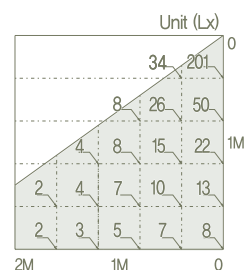
Size (mm)	Ø100×H81
Weight (g)	180
Power Consumption (W/h)	4
Input Voltage (V)	AC 220V, 50/60Hz
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	E27

Size (mm)	Ø100×H67
Weight (g)	170
Power Consumption (W/h)	4
Input Voltage (V)	AC 220V, 50/60Hz
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	GU10

Size (mm)	Ø100×H81
Weight (g)	240
Power Consumption (W/h)	8
Input Voltage (V)	AC 220V, 50/60Hz
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	E27

Size (mm)	Ø100×H146
Weight (g)	270
Power Consumption (W/h)	8
Input Voltage (V)	AC 220V, 50/60Hz
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	E27

Size (mm)	Ø100×H67
Weight (g)	240
Power Consumption (W/h)	8
Input Voltage (V)	AC 220V, 50/60Hz
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	GU10





03 LumiDas Indoor Lamps

LumiDas 16W and 22W lamps are indoor lamps for shops, halls, classrooms, indoor parking lots, offices, and factories. They can be used as recessed, surface and pendent-mounted downlights. Especially, they give elegant and soft light comfortable to human eyes.



Patents

tip
 Light guiding lens

- Coiled heat dissipation technology
- Anti-glaring technology

16W

22W



KLD-16C27



KLD-16C27L



KLD-22C27



KLD-22C40



KLD-22C27L

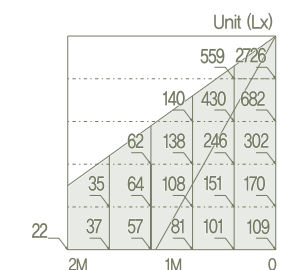
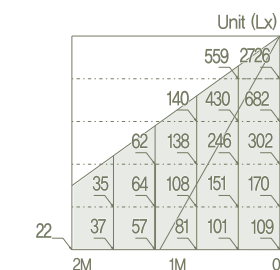
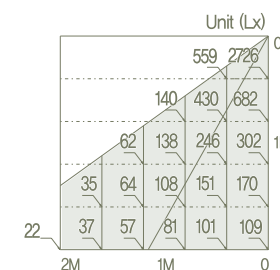
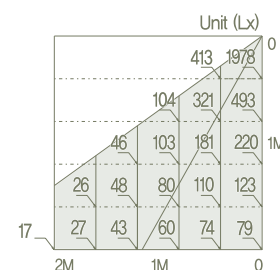
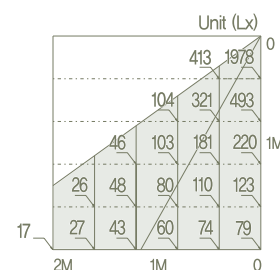
Size (mm)	Ø152×H134
Weight (g)	600
Power Consumption (W/h)	16
Input Voltage (V)	AC 220V, 50/60Hz
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	E27

Size (mm)	Ø152×H170
Weight (g)	610
Power Consumption (W/h)	16
Input Voltage (V)	AC 220V, 50/60Hz
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	E27

Size (mm)	Ø152×H134
Weight (g)	600
Power Consumption (W/h)	22
Input Voltage (V)	AC 220V, 50/60Hz
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	E27

Size (mm)	Ø152×H147
Weight (g)	610
Power Consumption (W/h)	22
Input Voltage (V)	AC 220V, 50/60Hz
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	E40

Size (mm)	Ø152×H170
Weight (g)	610
Power Consumption (W/h)	22
Input Voltage (V)	AC 220V, 50/60Hz
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	E27





03 LumiDas Indoor & Outdoor Lamps

Lumidas 52W and 72W lamps can be use as indoor lamps at large shops and factories. They can be also used as pole/arm-mounted area and roadway luminaires.



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 60°), and security and pedestrian lamps (beam angle 110°)

52W

72W

55W
80W



LD-52C40



LD-72C40



LD55-100/280VS (PF)
LD55-100/280VS (WF)

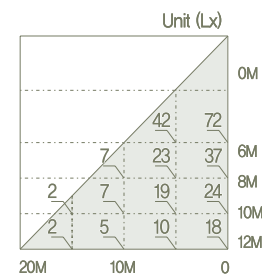
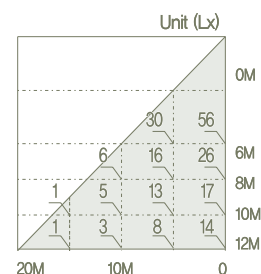


LD80-200/280VE39S (PF)
LD80-200/280VE39S (WF)

LD80-200/280VS (PF)
LD80-200/280VS (WF)

Size (mm)	Ø290×H157
Weight (Kg)	1.48
Power Consumption (W/h)	52
Input Voltage (V)	100V-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	-30°C ~ 40°C
Base	E40
IP Grade	64
Salt Water Spray Test (hours)	168

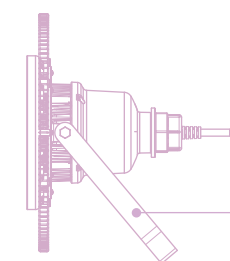
Size (mm)	Ø290×H157
Weight (Kg)	1.64
Power Consumption (W/h)	72
Input Voltage (V)	100V-240V, 50/60Hz
Power Factor	0.9
Color Temperature	Warm White / Pure White
Beam Angle (°)	110
Luminous Efficacy (lm/W)	80
Lifetime (hours)	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C
Base	E40
IP Grade	64
Salt Water Spray Test (hours)	168



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

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

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



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



O4 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



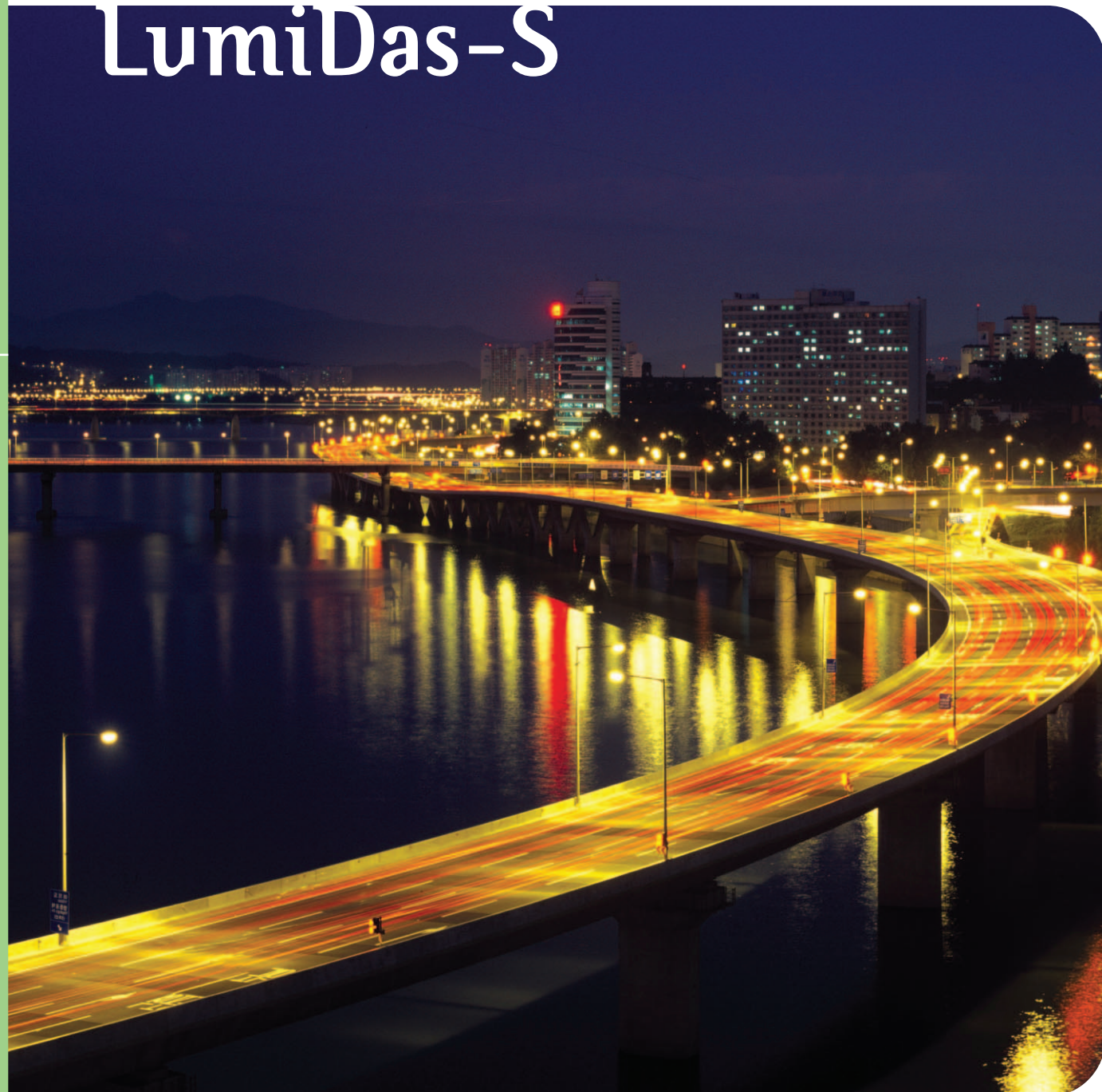
Stand Type (spotlight with lens) tip



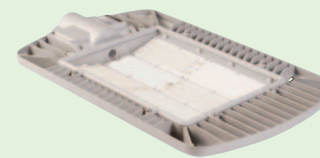
ST160-200/280VL

- Spotlight function enhanced by mounting a lens
- General LED lamps for indoor and outdoor sports arena
- Easy to install with an angle control stand

LumiDas-S



80W | 99W | 110W | 160W | 160W



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



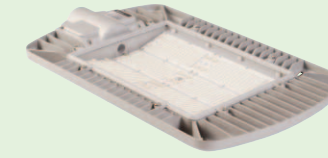
ST110-200/280VS (PF) Basic Type
ST110-200/280VR (PF) Reflector Type



ST160-200/280VL (PF)
Lens Type

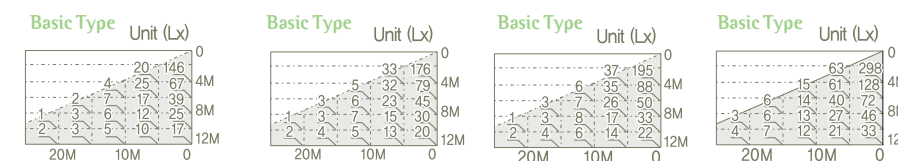


ST99-200/280VS (PF) Basic Type
ST99-200/280VR (PF) Reflector Type



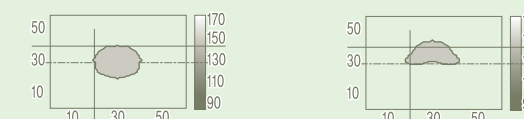
ST160-200/280VS (PF) Basic Type
ST160-200/280VR (PF) Reflector Type

H640×W370×D85	H640×W370×D85	H640×W370×D85	H640×W370×D114	H640×W370×D114	Size (mm)
8.1	8.2	8.2	10	10	Weight (Kg)
80	99	110	160	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 : FPU50110S)	AC200-280V, 50/60Hz (Fawoo converter : FPU50160S)	Input Voltage (V)
0.9	0.9	0.9	0.9	0.9	Converter
Pure White	Pure White	Pure White	Pure White	Pure White	Power Factor
130	130	130	130	130	Color Temperature
80	80	80	80	80	Beam Angle (°)
30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	Luminous Efficacy (lm/W)
-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C	Lifetime (hours)
66	66	66	66	66	Operating Ambient Temperature
168	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



O4 LumiDas-T Tunnel Lamps

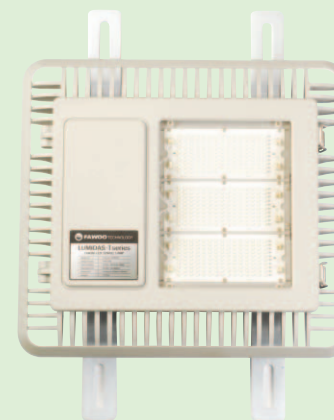
LumiDas-T LED tunnel lamps replace existing tunnel light.
 They consume much less energy than conventional tunnel lamps.
 The tunnel lamps are slim and shock-resistant.

- 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



55W

80W



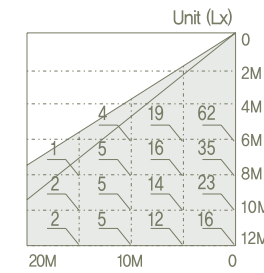
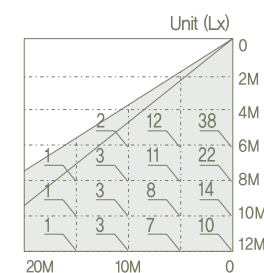
TL55-100/280VS (PF)



TL80-100/280VS (PF)

H460×W420×D94
9.8
55
AC100 - 280V, 50/60Hz
0.9
Pure White
130
80
30,000~50,000
-30°C ~ 40°C
FPU5055A
66
168

H460×W420×D94	Size (mm)
9.9	Weight (Kg)
80	Power Consumption (W/h)
AC100 - 280V, 50/60Hz	Input Voltage (V)
0.9	Power Factor
Pure White	Color Temperature
130	Beam Angle (°)
80	Luminous Efficacy (lm/W)
30,000~50,000	Life Time (hours)
-30°C ~ 40°C	Operating Ambient Temperature
FPU5080A	Converter (Built-in Type)
66	IP Grade
168	Salt Water Spray Test (hours)





O4 LumiDas-SP Omnidirectional Lamps

LumiDas-SP omnidirectional lamps replace existing bollard lamps, pedestrian lamps, and park lamps. They are lighter and smaller than existing lamps. Convenient to use and save maintenance cost.

- High efficiency due to downward light direction when used in a park as security lamps
- Creative applications using various designs
- Waterproof. No additional fixture needed
- Socket type and hard-wire type
- Fit for outdoor lamps
- Use at confined airtight space not recommended

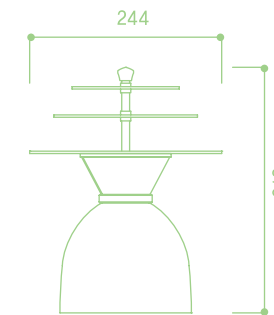
LumiDas-SP



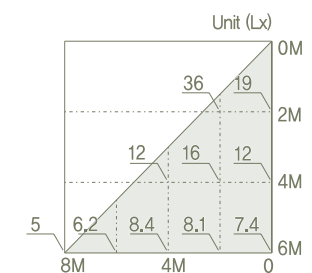
22W



SP22-100/280VE39S (PF)
SP22-100/280VE39S (WF)



22	Power Consumption (W/h)
AC 100V-240V, 50/60Hz	Input Voltage (V)
0.9	Power Factor
Warm White / Pure White	Color Temperature
360	Beam Angle (°)
80	Luminous Efficacy (lm/W)
30,000~50,000	Lifetime (hours)
E39	Base
168	Salt Water Spray Test (hours)





04 LumiDas-E

Explosion-Proof Lamps B Type

Ex d II B+H₂ T6 IP65

Fawoo Explosion-Proof Lamps replace existing explosion-proof lamps. They are lighter and more convenient to use, and they 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 lamps obtained the international LED Explosion-Proof Lamp Certification (IECEX) for general lighting in hazardous areas. (ATEX pending)

LumiDas-E



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°

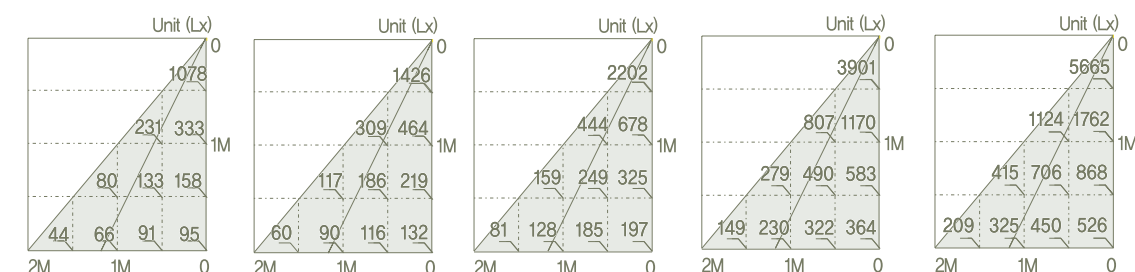
EX55-AFBDR (PF)
EX55-AFBDR (WF)
EX75-AFBDR (PF)
EX75-AFBDR (WF)

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 ~ 40°C	-20°C ~ 40°C	-20°C ~ 40°C	-20°C ~ 40°C	-20°C ~ 40°C	Operating Ambient Temperature
EX d II B + H ₂ T6	EX d II B + H ₂ T6	EX d II B + H ₂ T6	EX d II B + H ₂ T6	EX d II B + H ₂ T6	Explosion-Proof Standard Grade
65	65	65	65	65	IP Grade





04 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)

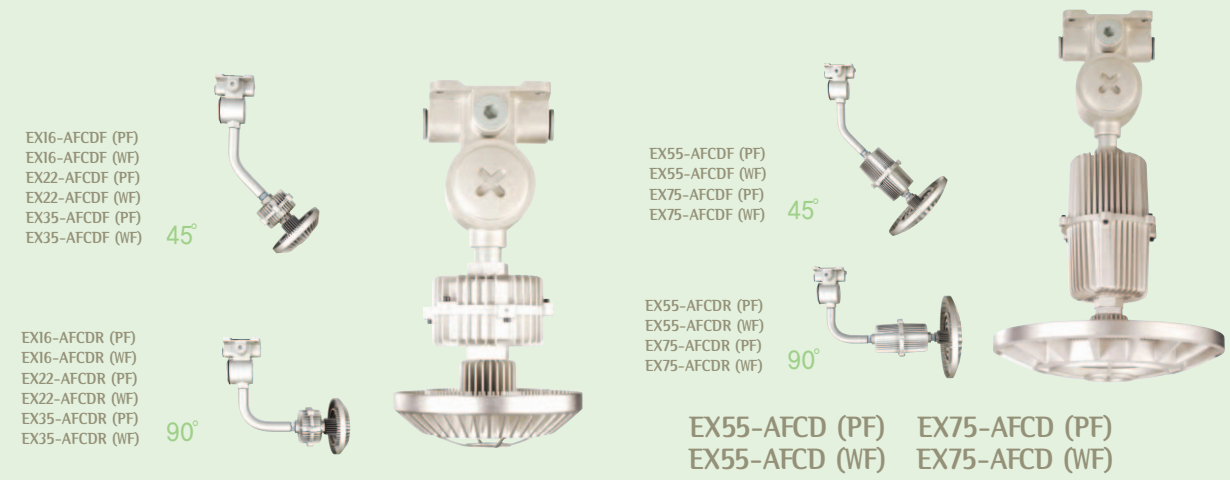


LumiDas-E lamps obtained the international LED Explosion-Proof Lamp Certification (IECEX) for general lighting in hazardous areas. (ATEX pending)

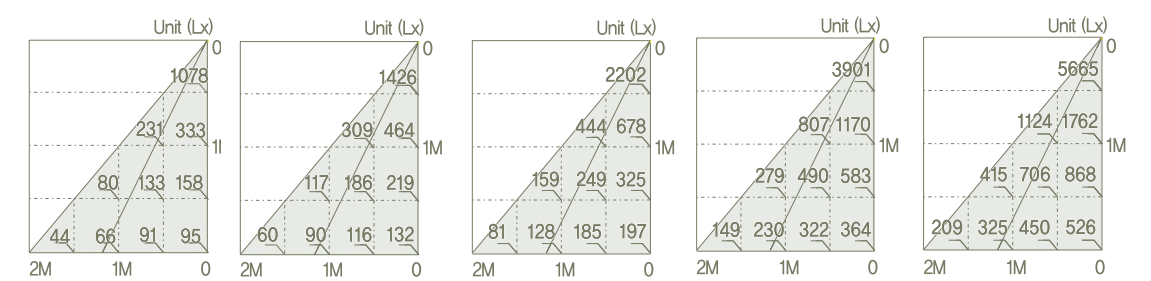
LumiDas-E



16W | 22W | 35W | 55W | 75W



16W	22W	35W	55W	75W	Size (mm)
EX16-AFCDF (PF) EX16-AFCDF (WF) EX22-AFCDF (PF) EX22-AFCDF (WF) EX35-AFCDF (PF) EX35-AFCDF (WF)	EX22-AFCDF (PF) EX22-AFCDF (WF) EX35-AFCDF (PF) EX35-AFCDF (WF)	EX35-AFCDF (PF) EX35-AFCDF (WF)	EX55-AFCDF (PF) EX55-AFCDF (WF) EX75-AFCDF (PF) EX75-AFCDF (WF)	EX55-AFCDF (PF) EX55-AFCDF (WF) EX75-AFCDF (PF) EX75-AFCDF (WF)	EX55-AFCDF (PF) EX55-AFCDF (WF) EX75-AFCDF (PF) EX75-AFCDF (WF)
EX16-AFCDF (PF) EX16-AFCDF (WF) EX22-AFCDF (PF) EX22-AFCDF (WF) EX35-AFCDF (PF) EX35-AFCDF (WF)	EX22-AFCDF (PF) EX22-AFCDF (WF) EX35-AFCDF (PF) EX35-AFCDF (WF)	EX35-AFCDF (PF) EX35-AFCDF (WF)	EX55-AFCDF (PF) EX55-AFCDF (WF) EX75-AFCDF (PF) EX75-AFCDF (WF)	EX55-AFCDF (PF) EX55-AFCDF (WF) EX75-AFCDF (PF) EX75-AFCDF (WF)	EX55-AFCDF (PF) EX55-AFCDF (WF) EX75-AFCDF (PF) EX75-AFCDF (WF)
EX16-AFCDF (PF) EX16-AFCDF (WF)	EX22-AFCDF (PF) EX22-AFCDF (WF)	EX35-AFCDF (PF) EX35-AFCDF (WF)	EX55-AFCDF (PF) EX55-AFCDF (WF)	EX75-AFCDF (PF) EX75-AFCDF (WF)	Weight (Kg)
2.9	2.9	2.9	8.7	8.7	Power Consumption (W/h)
16	22	35	55	75	Input Voltage (V)
AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	Power Factor
0.9	0.9	0.9	0.9	0.9	Color Temperature
Warm White / Pure White	Warm White / Pure White	Warm White / Pure White	Warm White / Pure White	Warm White / Pure White	Beam Angle (°)
110	110	110	110	110	Luminous Efficacy (lm/W)
80	80	80	80	80	Lifetime (hours)
30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	Operating Ambient Temperature
-20°C ~ 40°C	-20°C ~ 40°C	-20°C ~ 40°C	-20°C ~ 40°C	-20°C ~ 40°C	Explosion-Proof Standard Grade
EX d II C T6	EX d II C T6	EX d II C T6	EX d II C T6	EX d II C T6	IP Grade
65	65	65	65	65	





04 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



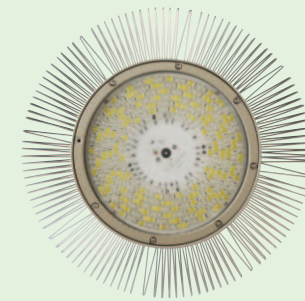
Benefits of Fawoo LED Fish Luring Lamps were proved in Korean Sea

- 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

LumiDas

80W

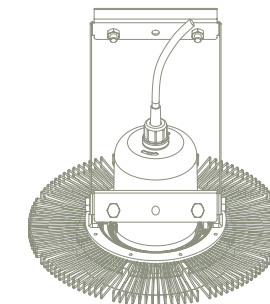
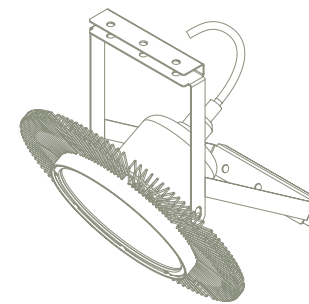


LD80-200/280VH (BFD)
Blue



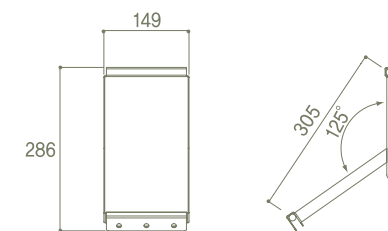
LD80-200/280VH (WFD)
Warm White

LD80-200/280VH (PFD)
Pure White

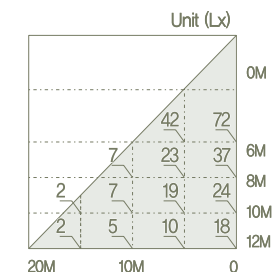


How to install a fixing bracket

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)





O4 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



55W | 80W | 110W | 55W | 80W | 110W



Pendant Type (Indoor Only)

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



Rotating Type

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

Ø410×1116	Ø410×1116	Ø410×1220	Ø410×467	Ø410×467	Ø410×472	Size (mm)
-	-	-	-	-	-	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)
-25°C ~ 40°C	-25°C ~ 40°C	-25°C ~ 40°C	-25°C ~ 40°C	-25°C ~ 40°C	-25°C ~ 40°C	Operating Ambient Temperature
NA	NA	NA	65	65	65	IP Grade

LumiDas-SL



05 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)

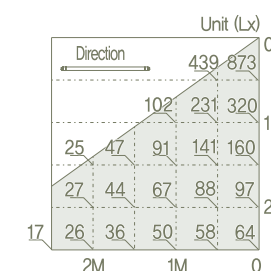
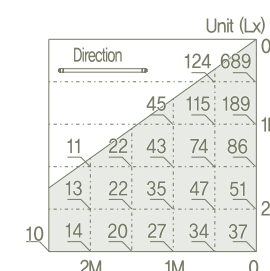


FL22-D2G13S (P)



FL44-D2G13S (P)

7W	14W	22W	44W	
Ø32×580	Ø32×1198	Ø32×1500	Ø32×2367	Size (mm)
240	400	480	780	Weight (g)
7	14	22	44	Power Consumption (W/h)
0.32A (MAX DC 24V)	0.64A (MAX DC 24V)	1.04A (MAX DC 24V)	2.08A (MAX DC 24V)	Input Voltage (V)
Pure White	Pure White	Pure White	Pure White	Color Temperature
110	110	110	110	Beam Angle (°)
70	70	70	70	Luminous Efficacy (lm/W)
30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	Lifetime (hours)
-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C	Operating Ambient Temperature
G13	G13	G13	G13	Base
MCW-2406-W	MCW-2406-W	HPA-2420-W	HPA-2420-W	Converter
Use of HPA-2408W makes the lamp brighter with 9W output		Use of HPA-2408W makes the lamp brighter with 18W output		



LumiDas-F

LED Fluorescent Lamps : Adjustable Type

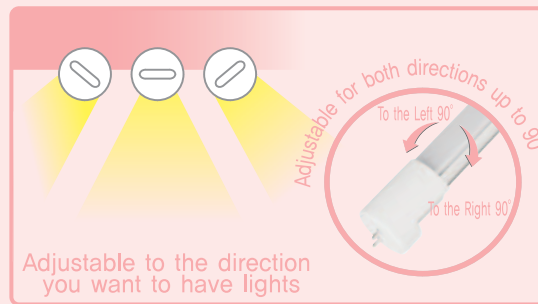
- Direction of beam adjustable
- Give light to the direction you want
- Maximum utilization of the lamp light output

9W

18W

22W

44W



FL09-D2GI3R (P)

FL18-D2GI3R (P)

FL22-D2GI3R (P)

FL44-D2R17DR (P)

O5 LumiDas-FS

LED Fluorescent Lamps : Integrated Type

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



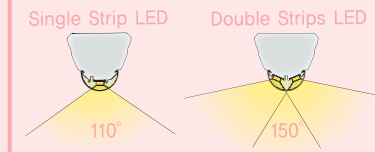
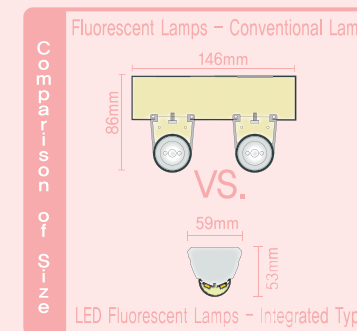
11W

22W

44W

52W

104W



FS11-100/240VS (P)

FS22-100/240VS (P)

FS52-100/240VS (P)

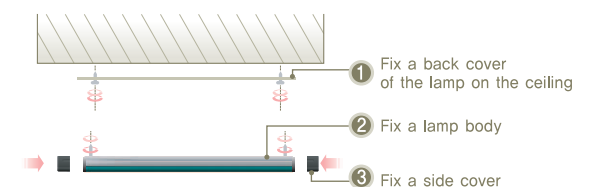
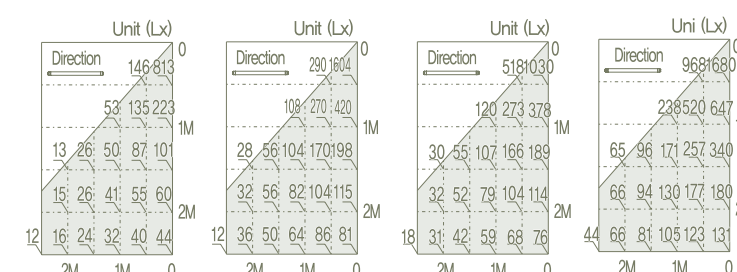
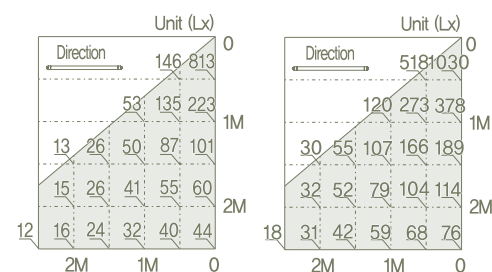
FS22-100/240VD (P)

FS44-100/240VD (P)

FS104-100/240VD (P)

Size (mm)	Ø32 × 580	Ø32 × 1198	Ø32 × 1500	Ø32 × 2367
Weight (g)	240	400	480	780
Power Consumption (W/h)	9	18	22	44
Input Voltage (V)	0.42A (MAX DC24V)	0.84A (MAX DC24V)	1.04A (MAX DC24V)	2.08A (MAX DC24V)
Color Temperature	Pure White	Pure White	Pure White	Pure White
Beam Angle (°)	110	110	110	110
Luminous Efficacy (lm/W)	70	70	70	70
Lifetime (hours)	30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C
Base	G13	G13	G13	R17d
Converter	HPA-2408-W	HPA-2408-W	HPA-2420-W	HPA-2420-W

Size (mm)	53 × 59 × 598	53 × 59 × 598	53 × 59 × 1216	53 × 59 × 1216	53 × 59 × 2385	53 × 59 × 2385
Weight (g)	720	770	1300	1580	2550	3080
Power Consumption (W/h)	11	22	22	44	52	104
Input Voltage (V)	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz
Color Temperature	Pure White	Pure White	Pure White	Pure White	Pure White	Pure White
Beam Angle (°)	110	150	110	150	110	150
Luminous Efficacy (lm/W)	70	70	70	70	70	70
Lifetime (hours)	30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000	30,000~50,000
Operating Ambient Temperature	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C
Converter	HPA-2408-W Single Strip LED	HPA-2408-W Double Strips LED	HPA-2408-W Single Strip LED	HPA-2408-W Double Strips LED	HPA-2420-W Single Strip LED	HPA-2420-W Double Strips LED





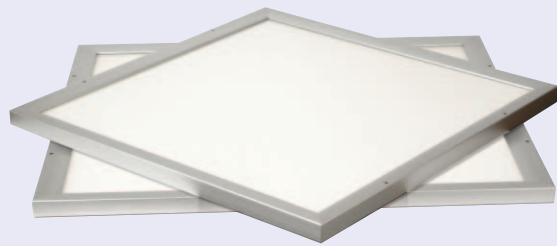
06 LumiSheet Lamp

- 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

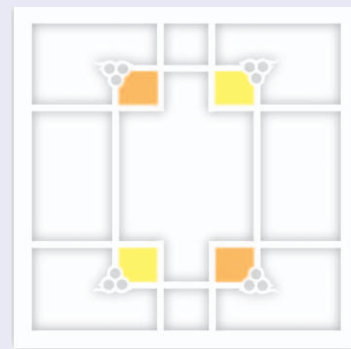


Features of LumiSheet Lamps tip

- 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



LSL42-4
Aluminum Frame



LSL-S600
Wooden Frame



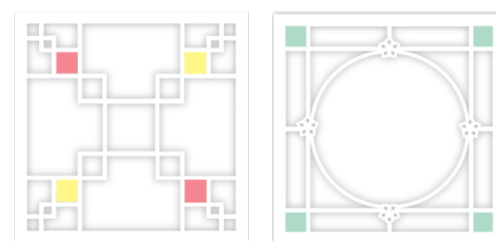
LSL42-2
Aluminum Frame



LSL-S1200
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
Converter (A)	5
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
Converter (A)	5
Certification	UL / CE



LSL-S600 (PI)

Dimensions (mm)	1,230×330×31
Lamp Dimensions (mm)	1,200×300×8
Weight (Kg)	6.0
Power Consumption (W/h)	40.7
Light Output	265 Lx (at 2.5 m high)
Color Temperature (K)	5,000 ~ 6,000
Lifetime (hours)	30,000~50,000
Input Voltage (V)	DC 12V
Converter (A)	5
Certification	UL / CE

Dimensions (mm)	1,230×330×21
Lamp Dimensions (mm)	1,200×300×8
Weight (Kg)	5.5
Power Consumption (W/h)	40.7
Light Output	265 Lx (at 2.5 m high)
Color Temperature (K)	5,000 ~ 6,000
Lifetime (hours)	30,000~50,000
Input Voltage (V)	DC 12V
Converter (A)	5
Certification	UL / CE



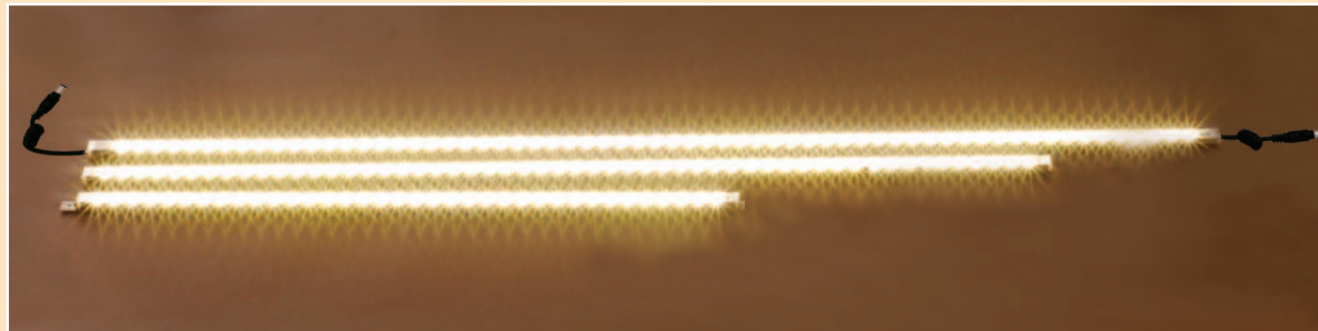
07 Lumi-M-Stick

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.

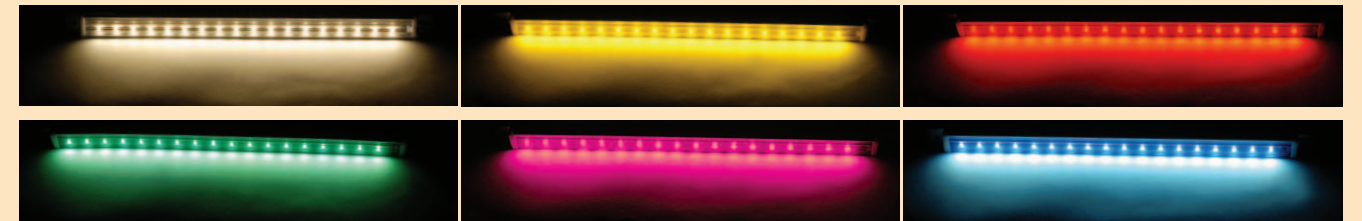


Connector Type

- 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.

	Model	Size	No. of LED chips	Power Consumption	Luminous Efficacy	Options
Basic Type UL Approved	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		
Basic Type CE 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		
Connector Type UL 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		
Connector Type 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.

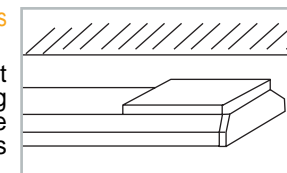
Lumi-M-Stick Frame

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

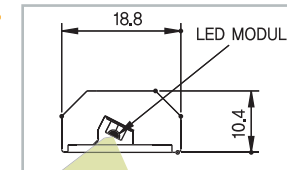


Magnets and Adhesive Tapes

Easy and fast installation using magnets or adhesive tapes

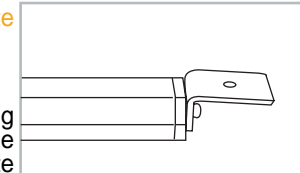


Basic 27°
(You can choose light reflection angle)

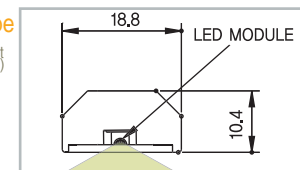


Angle Adjusting Plate

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



Symmetry Horizontal Type
(You can choose light reflection angle)





08 Converters

LumiDas-H

LumiSheet / Lumi-M-Stick / LumiDas-H



Coming Soon

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



LumiSheet / Lumi-M-Stick



DSA-12W-10F

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



DSA-042IS

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



DSA-60W

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

LumiDas-F / LumiDas-FS



Coming Soon

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

3P Connector Type



MCW-4803-I3

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

MCW-4803-I5

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

3P Line Type



MCW-4803-C3

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

MCW-4803-C5

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