





LED Spot Light

LED Bulb

LED Down Light

LED Tube (Adapter)

LED Tube (Ballast)

LED Panel Light

LED High Power Ceiling Light

LED Stick Bar





We are determined to become a top-notch company in Eco Lighting Solutions.

# HISTORY 2000 DNC Technology was established 2000 The Business Contract with SUMIDA Japan , for LCD Inverter (LG Electronics, LG Philips LCD, Samsung Electronics VD div., Samsung Electronics AMLCD div.) 2003 Investment to GUANGDONG FINE ELEC. Ltd. in China 2004 Investment to FMS Ltd. Investment to SUMIDA KOREA Ltd., Joint venture with Sumida, Japan 2005 Changed the company name from DNC to CODES 2006 ISO 9001, ISO 14001 Certificate & LED Lighting Products R&D 2008 LED Lighting Products' VEGALUX Brand Launch 2009 Applying for the certificates of EK, KS, UL, CE, etc.

# Greetings

Codes Co., Ltd. is a pioneer in design, manufacturing and distributing innovative LED lighting products for valuable customers with solid lighting backgrounds stemmed from many years of experiences of display industry.

We are quite sure that the finest LED lighting products only come from several engineering capabilities and those which we have confidences are; design capabilities for the optics, thermal treatment, the electrical circuit and the appliances, verification and validation of the design and development, design of exterior appearances, manufacturing of high-precision molding, and reliability test and product assurance

For the past few years, we have launched VEGALUX series, various LED lightings covering from indoor to outdoor usages including customized specified applications. To be a world leader in LED lighting field, we have been seeking for business partners all over the world and corresponding with present customers for their absolute satisfaction.

As we look to the future we are surely optimistic in our ability to expand our business to yield profits in every aspect to whom we work with. As our slogan, customer satisfaction and value creation, connotes we are trying to do our best to supply state-of-the-art LED lightings to every where they are needed and they will lighten the world.

Finally I would like to express my sincere appreciation to our customers, business partners, and employees. Thank you.

Chief Executive Officer



# **VEGALUX Lighting Products**

Design by Innovation.
Optic Analysis & Simulation Tech.
Evaluation Tech. for Reliability Test.
High Level Circuit Tech.
Thermal Analysis & Simulation Tech.

# ECO Bridge CODES

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Eco Friendly
Low Power Consumption
Long Life span



# LED Lighting Development & Quality Control

# **Development & Quality Testing**

Electrical Features
Optical Features
Temperature Features

# **Product Reliable Testing**

Durability Testing Low Temperature Start Testing On/ Off Lifetime Testing

# Strict Work Flow

ISO 9001
ISO 14001
Applying for the certificates of EK, KS, UL, CE, etc.



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- · Superior heat sink structure design
- · High brightness & long lifespan
- · Great power saving & low power consumption

SL-01	Specifications	Outline size & Light Source Distribution Curve
Dimensions (mm)	Φ 40, Height 67	
Weight (g)	56	
Base	E-26/E-27	
Input Voltage(V)	AC 100 / 220	2000
Power Consumption (W)	1.2	6
Power Factor	N/A	CS C
Luminous Flux (Lumen)	75	_ φ40 _
Illuminance (Lux, from 1M)	200	
Luminaire Efficacy (Lm/W)	60	
Color Temperature	Warm White: 3,000	
(Kelvin degree)	Pure White: 5,500	
CRI	70	
Beam Angle	20 °	40 10 20 10 20 40
Water Resistance	IP60	60 PS
Lifetime (Hours)	50,000	(10) (10) (10) (10) (10) (10) (10) (10)
Operating Temperature	-20 ~ 40 (°C)	







# SL-03A

- · Superior heat sink structure design
- High brightness & long lifespan
- $\bullet$  Great power saving & low power consumption

SL-03A	Specifications	Outline size & Light Source Distribution Curve
Dimensions (mm)	Φ 50, Height 39	
Weight (g)	54	0.0
Base	GU 5.3	1
Input Voltage(V)	AC/DC 12V	
Power Consumption (W)	3.3	MHHHM *
Power Factor	N/ A	<u>₩₩₩₩₩</u>
Luminous Flux (Lumen)	230	Ø50
Illuminance (Lux, from 1M)	670(20 *) / 300(40 *)	co.
Luminaire Efficacy (Lm/W)	70	<u>0</u>
Color Temperature	Warm White: 3,000	
(Kelvin degree)	Pure White : 5,500	9
CRI	80	3
Beam Angle	20 * /40 *	30 32 10 10 10 30 31 41 41 41 41 41 41 41 41 41 41 41 41 41
Water Resistance	IP60	20 20 20 20 20 20 20 20 20 20 20 20 20 2
Lifetime (Hours)	50,000	90 100 50 0 30 100 90 100 20 100
Operating Temperature	-20 ~ 40 (°C)	20 " 40 "









- · Superior heat sink structure design
- · High brightness & long lifespan
- · Great power saving & low power consumption

SL-03C	Specifications	Outline size & Light Source Distribution Curve
Dimensions (mm)	$\phi$ 50, Height 69	
Weight (g)	52	A 1
Base	E 11	
Input Voltage(V)	AC 100	
Power Consumption (W)	3.3	
Power Factor	N/A	/700000000
Luminous Flux (Lumen)	230	
Illuminance (Lux, from 1M)	670(20 *) / 300(40 *)	MAINTENN +
Luminaire Efficacy (Lm/W)	65	Ø50
Color Temperature	Warm White: 3,000	
(Kelvin degree)	Pure White: 5,500	
CRI	80	
Beam Angle	20 * / 40 *	40 20 20 10 0 10 20 20 40 40 40 10 20 20 40
Water Resistance	IP60	99 99 90 90 90 90 90 90 90 90 90 90 90 9
Lifetime (Hours)	50,000	20 100 25 0 100 100 100 100 100 100 100 100 100
Operating Temperature	-20 ~ 40 (℃)	20 "







- · Superior heat sink structure design
- · High brightness & long lifespan
- · Great power saving & low power consumption

SL-08	Specifications	Outline size & Light Source Distribution Curve
Dimensions (mm)	Φ 97, Height 91	m O
Weight (g)	236	
Base	E-26/E-27	
Input Voltage(V)	AC 100 / 220	* (million)
Power Consumption (W)	8.5	//////////////////////////////////////
Power Factor	0.93	
Luminous Flux (Lumen)	550	Ø97
Illuminance (Lux, from 1M)	1070	
Luminaire Efficacy (Lm/W)	65	<u>0</u>
Color Temperature	Warm White: 3,000	
(Kelvin degree)	Pure White: 5,500	
CRI	80	=
Beam Angle	40 -	40 30 70 0 10 20 33
Water Resistance	IP60	60 PM
Lifetime (Hours)	50,000	90 100 100 100 100 100 100 100 100 100 1
Operating Temperature	-20 ~ 40 (℃)	







- · Superior heat sink structure design
- · High brightness & long lifespan
- · Great power saving & low power consumption

SL-20	Specifications	Outline size & Light Source Distribution Curve
Dimensions (mm)	Φ 116, Height 128	
Weight (g)	460	
Base	E 26 / E27	
Input Voltage(V)	AC 100 - 220	
Power Consumption (W)	20	
Power Factor	0.93	
Luminous Flux (Lumen)	1300	
Illuminance (Lux, from 1M)	2900	Φ116
Luminaire Efficacy (Lm/W)	65	
Color Temperature	Warm White: 3,000	
(Kelvin degree)	Pure White: 5,500	
CRI	80	
Beam Angle	40 *	49 20 10 0 10 m 20 45
Water Resistance	IP60	950
Lifetime (Hours)	50,000	80 80 100 100 100 100 100 100 100 100 10
Operating Temperature	-20 ~ 40 (°C)	





IL-05

- · Slim design & high brightness uniformity
- · Superior light source spread cover equipped
- · High efficiency power technology adopted
- Great power saving & long lifespan over incandescent lamp

IL-05	Specifications	Outline size & Light Source Distribution Curve
Dimensions (mm)	Φ 60, Height 128	
Weight (g)	160	/ ·
Base	E-26/E-27	
Input Voltage(V)	AC 100 / 220	
Power Consumption (W)	5	821
Power Factor	0.93	
Luminous Flux (Lumen)	300	CHARACTE (2330A)
Illuminance (Lux, from 1M)	100	
Luminaire Efficacy (Lm/W)	60	Ø60
Color Temperature	Warm White: 3,000	
(Kelvin degree)	Pure White: 5,500	
CRI	70	
Beam Angle	120 °	40 30 NE 10 C 10 20 20 AZ
Water Resistance	IP60	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Lifetime (Hours)	50,000	90 600 50 0 50 100 100 100 100 100 100 100 1
Operating Temperature	-20 ~ 40 (°C)	1000 47 17 170







- Slim design & high brightness uniformity
- · Superior light source spread cover equipped
- · High efficiency power technology adopted
- · Great power saving & long lifespan over incandescent lamp

IL-08	Specifications	Outline size & Light Source Distribution Curve
Dimensions (mm)	Φ 60, Height 143	
Weight (g)	165	
Base	E-26/E-27	
Input Voltage(V)	AC 100 / 220	A
Power Consumption (W)	7.4	543
Power Factor	0.93	
Luminous Flux (Lumen)	450	
Illuminance (Lux, from 1M)	140	AMAZEM KARIM
Luminaire Efficacy (Lm/W)	60	Ø60
Color Temperature	Warm White: 3,000	<b>▶</b> • • • • • • • • • • • • • • • • • • •
(Kelvin degree)	Pure White: 5,500	
CRI	70	
Beam Angle	120 -	40 20 20 10 0 10 20 40
Water Resistance	IP60	60 10 10
Lifetime (Hours)	50,000	90 106 50 0 190
Operating Temperature	-20 ~ 40 (°C)	







- · Superior light source spread cover equipped
- · Superior heat sink structure design
- · High efficiency power technology adopted
- Great power saving & long lifespan

DL-08	Specifications	Outline size & Light Source Distribution Curve
Dimensions (mm)	φ 112, Height 146	
Weight (g)	340	
Base	E-26/E-27	
Input Voltage(V)	AC 100 / 220	
Power Consumption (W)	8.8	2 B
Power Factor	0.94	TOWHAM 2
Luminous Flux (Lumen)	530	////////////
Illuminance (Lux, from 1M)	190	
Luminaire Efficacy (Lm/W)	60	Ø112
Color Temperature	Warm White: 3,000	E .
(Kelvin degree)	Pure White: 5,500	Ø112
CRI	70	
Beam Angle	120 *	49 33 20 10 0 10 20 30 40
Water Resistance	IP60	000
Lifetime (Hours)	50,000	80 60 80 80 80 80 80 80 80 80 80 80 80 80 80
Operating Temperature	-20 ~ 40 (°C)	





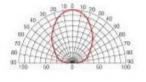




- · Superior light source spread cover equipped
- · Superior heat sink structure design
- · High efficiency power technology adopted
- · Great power saving & long lifespan

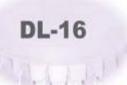
DL-12	Specifications	Outline size & Light Source Distribution Curve
Dimensions (mm)	φ 112, Height 146	
Weight (g)	340	- T
Base	E-26/E-27	
Input Voltage(V)	AC 100 / 220	
Power Consumption (W)	11.8	146
Power Factor	0.94	TO THAT I
Luminous Flux (Lumen)	730	/// / /
Illuminance (Lux, from 1M)	270	
Luminaire Efficacy (Lm/W)	62	Ø112
Color Temperature	Warm White: 3,000	
(Kelvin degree)	Pure White: 5,500	
CRI	70	
Beam Angle	120 *	40 30 30 40 40
Water Resistance	IP60	100
Lifetime (Hours)	50,000	92 195 60 100
Operating Temperature	-20 ~ 40 (°C)	











- · Superior light source spread cover equipped
- · Superior heat sink structure design
- · High efficiency power technology adopted
- · Great power saving & long lifespan

DL-16	Specifications	Outline size & Light Source Distribution Curve
Dimensions (mm)	Φ 116, Height 149	
Weight (g)	470	
Base	E-26/E-27	
Input Voltage(V)	AC 100 / 220	
Power Consumption (W)	15.1	9 //////////
Power Factor	0.94	
Luminous Flux (Lumen)	930	(((4,1,4,1))
Illuminance (Lux, from 1M)	380	
Luminaire Efficacy (Lm/W)	62	gare .
Color Temperature	Warm White: 3,000	
(Kelvin degree)	Pure White: 5,500	
CRI	70	=
Beam Angle	120 *	45 35 30 10 0 10 30 30 40
Water Resistance	IP60	50 70 70
Lifetime (Hours)	50,000	80 100 100 100 100 100 100 100 100 100 1
Operating Temperature	-20 ~ 40 (°c)	









- · Superior light source spread cover equipped
- · Superior heat sink structure design
- · High efficiency ipower technology adopted
- · Great power saving & long lifespan

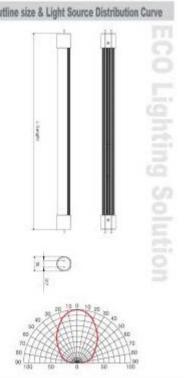
DL-22	Specifications	Outline size & Light Source Distribution Curve
Dimensions (mm)	Φ 150, Height 134	
Weight (g)	470	
Base	E-26/E-27	
Input Voltage(V)	AC 100 / 220	
Power Consumption (W)	21.2	
Power Factor	0.94	
Luminous Flux (Lumen)	1310	Ø150
Illuminance (Lux, from 1M)	500	
Luminaire Efficacy (Lm/W)	62	0 0
Color Temperature	Warm White: 3,000	
(Kelvin degree)	Pure White: 5,500	
CRI	70	=
Beam Angle	120 °	20 10 0 10 20 20
Water Resistance	IP60	50 Sec. 150
Lifetime (Hours)	50,000	70
Operating Temperature	-20 ~ 40 (°C)	90 ton 50 0 30 350



FL-12A FL-18A FL-22A

- Superior light source spread cover equipped
- Great power saving & long lifespan

Model	FL-12A	FL-18A	FL-22A	Outline size	
Dimensions (mm)	Φ 30, Length 580 Φ 30, Length 1198		Φ 30, Length 1198		
Weight (g)	300	528	528		
Base	GU 13	GU 13	GU 13		
Input Voltage(V)	DC 24 (Adapter 36N/1,5A)	DC 24 (Adapter 36W1.5A)	DC 24  Adapter 35N/1.5A)		
Power Consumption (W)	11.4	17.1	21		
Power Factor	<del></del>	læ1:	-		
Luminous Flux (Lumen)	740	1100	1380		
Illuminance (Lux, from 1M)	270	370	550		
Luminaire Efficacy (Lm/W)	65	65	65		
Color Temperature	Pure White	Pure White	Pure White		
(Kelvin degree)	5,500	5,500	5,500		
CRI	70 70		70		
Beam Angle	120 *	120 *	120 *		
Water Resistance	IP60	IP60	IP60	50 80/	
Lifetime (Hours)	50,000	50,000	50,000	#0/2 80	
Operating Temperature	-20 ~ 40 (°C)	-20 ~ 40 (℃)	-20 ~ 40 (°C)	100	







FL-22B

- Superior light source spread cover equipped
- · Great power saving & long lifespan

FL-22B	Specifications	Outline size & Light Source Distribution Curve
Dimensions (mm)	Φ 30, Length 1198	
Weight (g)	570	
Base	GU 13	
Input Voltage(V)	Ballast Input(Glow,Rapid)	
Power Consumption (W)	22	
Power Factor	-	Target B
Luminous Flux (Lumen)	1360	Œ.
Illuminance (Lux, from 1M)	420	0.0
Luminaire Efficacy (Lm/W)	62	0
Color Temperature	Pure White	
(Kelvin degree)	5,500	
CRI	70	
Beam Angle	120 *	on 10 0 10 or
Water Resistance	IP60	93 2 3 4 9
Lifetime (Hours)	50,000	10 PD
Operating Temperature	-20 ~ 40 (°C)	0 100







- · Super slim thickness
- · Superior optical efficiency
- · Built in power supply
- $\bullet$  Well suited for commercial and residential applications
- $\bullet$  Customized sizes and color temperatures are available

FR-50	Specifications		
Dimensions (mm)	1200X300X31T	<u> </u>	306
Weight (g)	3,000		
Base	_		
Input Voltage(V)	AC 100 / 220		-
Power Consumption (W)	46		
Power Factor	0.95	157	1206
Luminous Flux (Lumen)	2800	14 4	(%
Illuminance (Lux, from 1M)	1200		
Luminaire Efficacy (Lm/W)	61		-
Color Temperature	Warm White: 3,000		
(Kelvin degree)	Pure White: 5,500	1 22	
CRI	70	28	297
Beam Angle	120 *	- 10 G	10 m
Water Resistance	IP60	50 St. 30	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Lifetime (Hours)	50,000	no A	70 70 m
Operating Temperature	-20 ~ 40 (°C)	90 100	50 100





# F-FS049

- · Great power saving over FL & long lifespan
- · Much brightness over traditional fluorescent lamps
- · Well suited for commercial and residential applications
- · Customized sizes and color temperatures are available

F-FS049	Specifications	Outline size & Light Source Distribution Curve
Dimensions (mm)	W327×L1270×H86	The state of the s
Weight (g)	6,000	4
Base		L <sup>1</sup>
Input Voltage(V)	AC 110V-220V	99
Power Consumption (W)	49W	
Power Factor	0.98	
Luminous Flux (Lumen)	3400	
Illuminance (Lux, from 1M)	1250	1270
Luminaire Efficacy (Lm/W)	69	1270
Color Temperature	Warm White : 4,100K	
(Kelvin degree)	Pure White : 5,500K	
CRI	70	
Beam Angle	120°	10.9 m
Water Resistance	IP40	50 30 30 30 50 50 50 50 50 50 50 50 50 50 50 50 50
Lifetime (Hours)	50,000	70 70
Operating Temperature	-20 ~ 40 (°C)	20 000 000 000







- · Additional three wires are suspended for safety
- · High efficiency power technology adopted
- · Superior heat sink structure design
- · Well suited for warehouse & factory lighting applications

TL-80	Specifications	Outline size & Light Source Distribution Curve
Dimensions (mm)	$\phi$ 280, Height 187.5	
Weight (g)	1,730	
Base	E-39	
Input Voltage(V)	AC 100 - 220	
Power Consumption (W)	80	WALLET TO SEE SEE
Power Factor	0.93	
Luminous Flux (Lumen)	4800	
Illuminance (Lux, from 1M)	1,000	160 280
Luminaire Efficacy (Lm/W)	60	
Color Temperature	Warm White: 3,000	
(Kelvin degree)	Pure White: 5,500	
CRI	70	
Beam Angle	120 °	22 10 0 10 20 to
Water Resistance	IP60(Option: IP66)	100 AU AU AU
Lifetime (Hours)	50,000	70 NO NO NO
Operating Temperature	-20 - 40 (°C)	20 100 53 0 53 105









SB- 04/ 08/ 13 16/ 18/ 22

- · Great power saving over FL with low power consumption
- · Enable 360 degree rotation for object lighting
- Size of LED bar can be changed according to customer's requirement

Model	SB-04	SB-08	SB-13	Outline size & Light Source Distribution Curve
Dimensions (mm)	L310, W18(mm)	L585, W18(mm)	L861, W18(mm)	<b>東</b> 6 音。
Input Voltage (V)	DC 24	DC 24	DC 24	
Power Consumption (W)	4	8	13	
Illuminance (Lux, from 1M)	105	200	310	. III de
Color	WW: 3,000	WW: 3,000	WW: 3,000	
Temperature	PW: 5,500	PW: 5,500	PW: 5,500	L (Leogri)
Luminous Flux (Lumen)	220	440	660	and the second
Operating Temperature	-20 ~ 40 (℃)	-20 ~ 40 (°C)	-20 ~ 40 (℃)	9
Model	SB-16	SB-18	SB-22	
Dimensions (mm)	L957, W18(mm)	L1137, W18(mm)	L1413, W18(mm)	
Input Voltage (V)	DC 24	DC 24	DC 24	
Power Consumption (W)	16	18	22	(2)
Illuminance (Lux, from 1M)	410	450	550	22
Color	WW: 3,000	WW: 3,000	WW: 3,000	
Temperature	PW: 5,500	PW: 5,500	PW: 5,500	33 20 10 00 10 30 30
Luminous Flux (Lumen)	800	880	1100	es no
Operating Temperature	-20 - 40 (°C)	-20 - 40 (°c)	-20 - 40 (°C)	90 100



# Unique Characteristics of SUNWISE LED STANDS

- Luxurious color and stable slim-type design upgraded the elegance of the LED stand.
- The thinnest type LED stand in market(12mm),
- Four-articulations structure makes realization of various viewing angles,
- Touch pad and simple GUI are designed to conveniently use.
- Various Learning modes such as Sunrise mode(5000K) for linguistic study, Noon mode(7000K) for calculation study, and Sunset mode(3000K) for creation and rest are designed both for students and for business people
- Therapy mode has Relax mode, Emotion mode, and Active mode based on the theory that colors and lights have psychotherapy effects. This mode is special and unique advantage of SUNWISE.
- Mood mode is designed for changing colors and, consequently, resulting stylish environments
- ### 44 pieces of White LED and 44 pieces RGB LED are used
- SUNWISE Lighting is most similar to solar lighting compared to a single white LED Lighting. (CRI 92)
- Ultra lighting efficiency with lower power consumption
- 50,000hr Long life cycle
- Fluorescent material are not used and No Ultraviolet emission

# The first LED Stand to adopt LGP(Light Guide Panel)







SUNWISE LGF

SUNWISE is the first LED Stand to adopt edge-type LGP and realizing premium indirect illuminating with hidden LED light source. SUNWISE is designed for anti-glaring and for protecting eyesight. SUNWISE is also much helpful for improving learning ability

# Psychotherapy Effect Using Hues

Colors and lights have centrifugal action(from oneself to environment) and centripetal action (from environment to oneself) based on various scientific researches. These actions stimulate muscle activities resulting cheerful mood and, on the contrary, cheerful mood makes people easy to devote emotional working. SUNWISE Stand, therefore, supplies diverse psychotherapy modes by realizing various hues and lights.



Try to use this mode when you are lack of appetite or in enervation. This mode will improve your appetite to make you activ

> Try to use this mode when you are melancholy or depressed. This mode will make your internal tense emit outward

Try to use this mode when you are in uneasiness or when you need calmness. This mode will make your nerve and muscle be mitigated.

# Learning Mode(Linguistics, Calculation, Initiative/Art Modes)

The brainwaves such as alpha wave & theta wave created under the vigilant condition of the brain are said to maximize the amount of data processing, memory capability, and power of concentration of the brain. This vigilant condition is created by appropriate color temperature and brightness(i.e.illumination). SUNWISE is designed to supply optimum color temperature and brightness to maximize learning ability based on scientific researches



SUNRISE Mode(For Linguistic Study)

SUNRISE Mode suitable for linguistic study which needs high concentration supplies optimum condition for longitime concentration by maintaining color temperature between 4,500K-5,500K.

(Between AM 10:00-PM 3:00 at the KELVIN Degree Table)



SUN NOON Mode(For Calculation Study)

SUN NOON Mode suitable for calculation study which needs intellectual dexterity and agile thought supplies optimum condition for application area such as mathematics and science by maintaining color temperature between 6,500K-7,500K.

(Color temperature of the sunlight at Noon at the KELVIN Degree Table)



SUNSET Mode(For Initiative/Art Study)

SUNSET Mode suitable for sense of stability and soft mood supplies optimum condition for imagination and initiative by maintaining color temperature between 2,500K-3,500K.

(Color temperature of Sunrise and Sunset at the KELVIN Degree Table)

## Various Clock Functions

M Therapy (relax)

Clock Function



Lighting Alarm Function

Alarm along with strong flickering light stimulate afterimage and wake him/her up with refreshment.



Sleeping Mode

Do not turn the stand off, Just have sound sleep, SUNWISE timer automatically turns on/off whenever you want.

## **Brilliant Mood Mode**

Brilliant colors using RGB automatically change and realize mood circumstances of the room.





# USB Functions (USB Hub & Mobile Phone Charging)





Using USB port in the front, mobile phones and other digital devices can be charged. USB port in the rear can be connected to the PC(USB to USB) as USB Hub for customers' convenience.



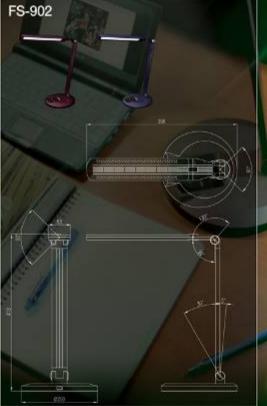
USB port in the front USB port in the rear

### Specifications

Models: FS-901 / FS-902 Power Used: DC 12V / 2.5A Power Consumption: 15W Light Source: LED(RGB/White)

## External Appearances





MANUFACTURER: 5F TONGYANG VENTURESTEL 5TH, 199-32 ANYANG 7-DONG, MANAN-GU, ANYANG-SI, GYUNGGI-DO, 430-817, KOREA



# LED Security Light (Factory) LED Street Light











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