

# PRODUCT CATALOGUE



*Ultra-Lumen, Ultra-Duration, Ultra-Saving*







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# Open Letter

*Dear our valued customers and partners,*

Light has always been an essential part of human life from ancient times to the present. In today's modern society, light not only symbolizes progress and development but also reflects the advancement of civilization. As cities grow and develop, their nightscapes become brighter, representing prosperity and innovation. High-quality artificial light sources are increasingly vital in this context.

Excessive waste and carbon emissions, on the other hand, have become an excruciating concern as the use of short-duration and low-quality LED lights contributes significantly to environmental degradation.

As a strategic partner of Chang-Yu Technology—a leader in semiconductor manufacturing in Taiwan and a trusted supplier of LED drivers for Samsung Group and lighting solutions for Taoyuan Airport—PFC Ecolighting is committed to provide high-quality lighting solutions that are both environmentally friendly and safe for human health. Our goal is to create a bright, healthy future with long-lasting, energy-efficient products that reduce environmental impact. Our commitment to quality is reflected in our **1-for-1 warranty for 50,000 lighting hours** or within **5 years**.

With a long-term vision and a heart dedicated to the community, we believe that our efforts today will yield sustainable values in the future. High-quality light sources will enhance the quality of life and contribute to building a happy and prosperous life for current and future generations. PFC Ecolighting always welcomes partners who share our vision of bringing superior products to the market.

We deeply appreciate the support of our customers and partners as we embark on this journey to revolutionize light sources, leading to a brighter and more sustainable future for all.

Best regards,  
PFC Ecolighting Board of Directors



GIÁM ĐỐC  
*Trịnh Trọng Quân*





# COMPANY INTRODUCTION





# Introduction to PFC Trading & Investment

Driven by a commitment to revolutionize environmentally friendly light sources that prioritize human health without negative impacts, in 2023, PFC became a strategic partner of Taiwan's leading technology corporation, Chang-Yu Technology.

More than the exclusive distributor of Chang-Yu's renowned LED chips and drivers, PFC also collaborates closely with Chang-Yu Technology in researching, developing, and jointly producing the PFC Ecolighting product line, ensuring maximum customization for various projects:

*Office buildings*

*Residential buildings*

*Factories*

*Public buildings*

We take pride in delivering innovative lighting solutions to customers, while integrating advanced technology with practical value:

**140-160 Lm/W** Outstanding luminous efficacy:

- Regular LED light: 90 Lm/W
- **PFC Ecolighting: 140-160 Lm/W**

**≥ 0.92 PF** Utilized power factor:

- Regular LED light: [0.5 PF; 0.6 PF]
- **PFC Ecolighting: ≥ 0.92 PF**

**50,000 HOURS** 1-for-1 warranty:

- Within 5 years
- Or **50,000** lighting hours

**Reduce CO<sub>2</sub>**

- Saving energy
- Reducing technology waste
- Reducing CO<sub>2</sub> emission





# Introduction to Chang-Yu Technology

In 2000, Chang-Yu Technology, a strategic partner of PFC, was founded with a mission to bring advanced solutions to the semiconductor manufacturing industry. Over more than 20 years of relentless effort and with a professional team, Chang-Yu Technology has successfully developed innovative LED drivers.

It has become a source of pride for the Taiwan government in providing comprehensive solutions for LED lamp design, testing, and measurement. With a robust R&D team comprising experts across various fields, Chang-Yu Technology leads with its advanced technology product lineup, including:

Automated LED testing system

Microspectrometer

Optoelectronic testing equipment

Automated LED solutions

Chang-Yu Technology's LED power converters, used in PFC Ecolighting products, have been trusted in numerous landmark projects in Taiwan, notably at Taoyuan International Airport.

They have successfully entered demanding markets like **Japan** and **South Korea** through partnerships with corporations such as East Asia (Taiwan) and Samsung (South Korea).



Utilizing core technology from Chang-Yu Technology and assembly processes in Vietnam, PFC Ecolighting ensures product quality that meets international standards.

CE Standards



EMC Standards



FCC Standards



ISO 9001



ISO 14001



# Introduction to lighting specifications

LEDs, short for Light Emitting Diodes, employ semiconductor technology to emit light, boasting significant advantages over traditional lighting sources.

The following three basic concepts will help you to recognize high-quality LED products and thereby choose the optimal products that meet your requirements.



## Luminous Flux - A measure of the brightness

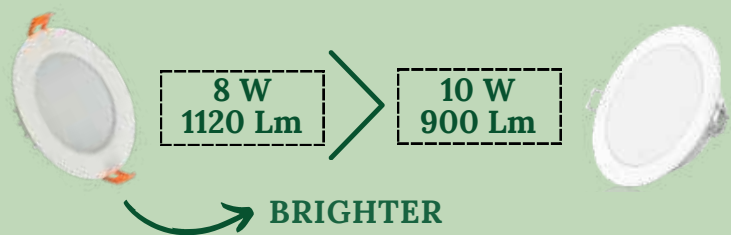
Luminous flux (Lumen-Lm) quantifies the total visible light emitted per unit time (usually seconds) in all directions from a light source.

### Luminous flux

measures the amount of visible light that the human eye perceives

### Power

only indicates the electrical power consumption of the light without directly reflecting its brightness.



## Luminous efficacy - Key to energy savings



The luminous efficacy measures how efficiently LED lights convert electrical power into light, calculated as the ratio of luminous flux to power consumption (unit: Lm/W). A higher luminous efficacy signifies greater energy efficiency and environmental friendliness of LED lights.

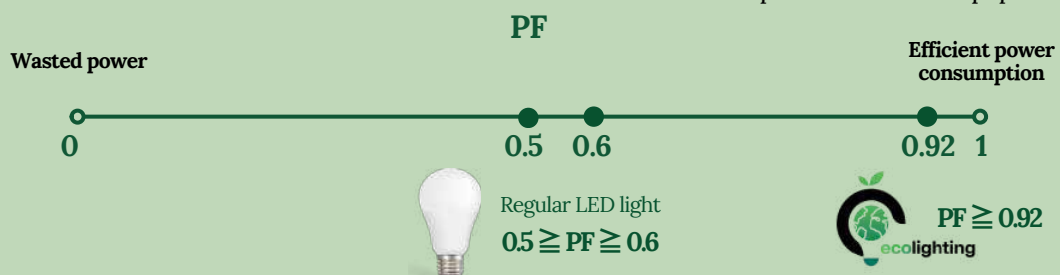
## Power factor - A measure of electrical efficiency

Power Factor (PF) measures how effectively an electrical device uses electrical power.

$$PF = \frac{\text{Useful power}}{\text{Total power consumption}}$$

Impacts of low power factor:

- Increased electricity costs
- Increased strain on electrical transmission systems
- Reduced lifespan of electrical equipment







# PRODUCT SPECIFICATIONS



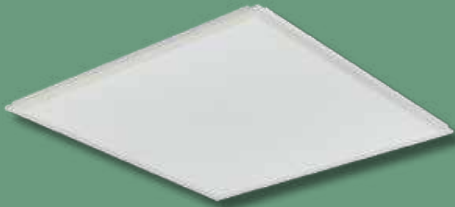
## RESIDENTIAL LIGHT



**DOWNLIGHT**



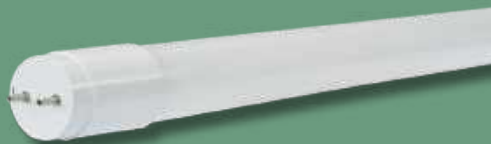
**SPOTLIGHT**



**PANEL LIGHT**



**SEMI-CIRCULAR LIGHT**

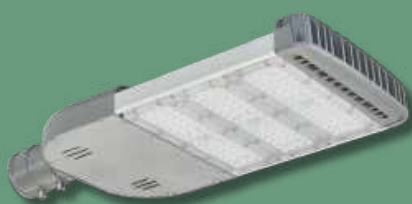


**TUBE LIGHT**  
**WATERPROOF TUBE LIGHT**



**FLUSH MOUNT CEILING LIGHT**

## COMMERCIAL LIGHT



**STREET LAMP**



**FLOOD LIGHT**  
**FACTORY LIGHT**



# ULTRA LUMEN DOWNLIGHT

## Multi-colors Ultra Lumen Downlight



⚡ PF ≥ 0.92

100-265V  
AC  
in 50-60HZ

50V DC  
out <300MA

Driver  
Ecolighting

PC Plastic Base  
Aluminum

SKU	Size (mm)	Power (W)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Quoted price (VND)
ECO-DL-001	Ø 90 / D120x40	5	800	160	240,000
ECO-DL-002	Ø 90 / D120x40	7	1120	160	250,000
ECO-DL-023	Ø 110 / D140x40	9	1440	160	267,000

## Mono-color Ultra Lumen Downlight



⚡ PF ≥ 0.92

100-265V  
AC  
in 50-60HZ

50V DC  
out <300MA

Driver  
Ecolighting

PC Plastic Base  
Aluminum

SKU	Size (mm)	Power (W)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Quoted price (VND)
ECO-DL-020	Ø 90 / D120x40	5	800	160	235,000
ECO-DL-021	Ø 90 / D120x40	7	1120	160	243,000
ECO-DL-025	Ø 110 / D140x40	9	1440	160	250,000
ECO-DL-026	Ø 140 / D182x40	12	1920	160	297,000
ECO-DL-027	Ø 140 / D182x40	16	2560	160	320,000

DOWNLIGHT

SPOTLIGHT

PANEL

SEMI-CIRCULAR  
LIGHTFLUSH MOUNT  
CEILING

TUBE

STREET  
LAMPINDUSTRIAL  
LIGHT

# DOWNLIGHT

## Multi-colors downlight



⚡ PF ≥ 0.92

100-265V  
AC  
in 50-60HZ

50V DC  
out <300MA

Ecolighting

PC Plastic Base  
Aluminum

SKU	Size (mm)	Power (W)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Quoted price (VND)
ECO-DL-005	Ø 90 / D120x40	5	700	140	212,000
ECO-DL-004	Ø 90 / D120x40	7	980	140	240,000
ECO-DL-011	Ø 110 / D140x40	9	1260	140	245,000

## Mono-color downlight



⚡ PF ≥ 0.92

100-265V  
AC  
in 50-60HZ

50V DC  
out <300MA

Ecolighting

PC Plastic Base  
Aluminum

SKU	Size (mm)	Power (W)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Quoted price (VND)
ECO-DL-008	Ø 90 / D120x40	5	700	140	185,000
ECO-DL-009	Ø 90 / D120x40	7	980	140	193,000
ECO-DL-015	Ø 110 / D140x40	9	1260	140	208,000
ECO-DL-016	Ø 140 / D182x40	12	1680	140	289,000
ECO-DL-017	Ø 140 / D182x40	16	2240	140	299,000

DOWNLIGHT

SPOTLIGHT

PANEL

SEMI-CIRCULAR  
LIGHTFLUSH MOUNT  
CEILING

TUBE

STREET  
LAMPINDUSTRIAL  
LIGHT



# SPOTLIGHT

## Mono-color Ultra Lumen Spotlight

⚡ PF ≥ 0.92

100-265V  
AC  
in 50-60HZ

50V DC  
out <300MA

Ecolighting

PC Plastic Base  
Aluminum



SKU	Size (mm)	Power (W)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Color	Quoted price (VND)
ECO-SL-001	D90 / 112x112x45	5	800	160	4000K	271,000
ECO-SL-002	D90 / 112x112x45	7	1120	160	4000K	290,000
ECO-SL-009	D110 / 132-45	9	1440	160	4000K	316,000
ECO-SL-011	D110 / 132-45	9	1440	160	6000K	316,000



DOWNLIGHT

SPOTLIGHT

PANEL

SEMI-CIRCULAR  
LIGHT

FLUSH MOUNT  
CEILING

TUBE

STREET  
LAMP

INDUSTRIAL  
LIGHT

# PANEL LIGHT

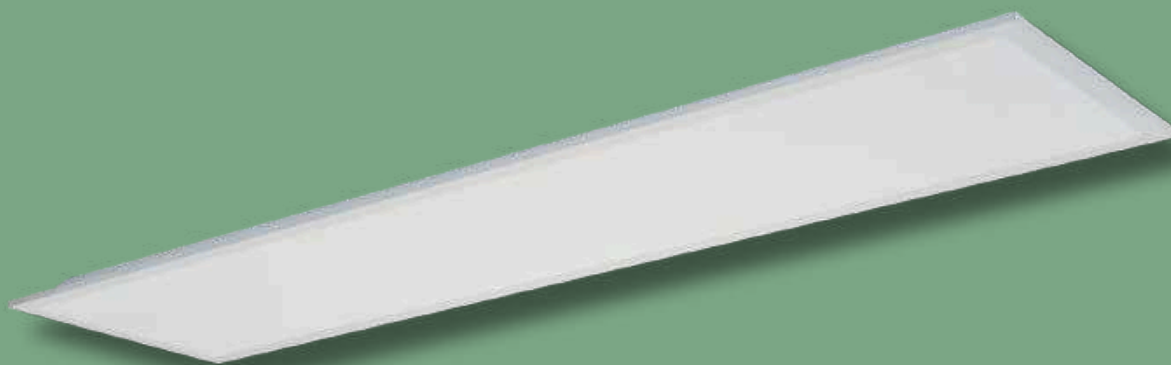
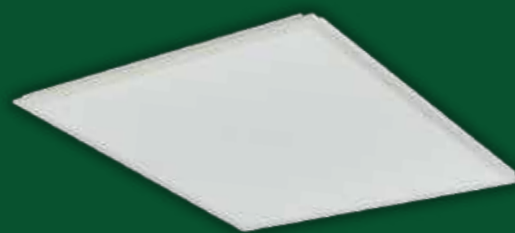
⚡ PF ≥ 0.92

100-265V  
AC  
in 50-60HZ

50V DC  
out <300MA

Ecolighting

PC Plastic Base  
Aluminum



SKU	Size (mm)	Power (W)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Quoted price (VND)
ECO-PN-001	600x600	21	3360	160	1,485,000
ECO-PN-002	600x600	25	3625	145	1,434,000
ECO-PN-003	600x600	32	3680	115	1,308,000
ECO-PN-007	600x1200	40	4000	100	1,978,000
ECO-PN-008	600x1200	32	5120	160	2,306,000
ECO-PN-005	300x1200	36	4320	120	1,589,000
ECO-PN-006	300x1200	40	4000	100	1,566,000

DOWNLIGHT

SPOTLIGHT

PANEL

SEMI-CIRCULAR  
LIGHT

FLUSH MOUNT  
CEILING

TUBE

STREET  
LAMP

INDUSTRIAL  
LIGHT



## SEMI-CIRCULAR LIGHT



⚡ PF ≥ 0.92

⚡ 100-265V  
AC  
in 50-60HZ

⚡ 50V DC  
out <300MA

Ecolighting

PC Plastic Base

SKU	Size (mm)	Power (W)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Color	Quoted price (VND)
ECO-BN-001	600	18	2520	140	4000K - 6000K	221,000
ECO-BN-002	900	27	3780	140	4000K - 6000K	234,000
ECO-BN-003	1200	28	3920	140	4000K - 6000K	258,000
ECO-BN-004	1200	36	5040	140	4000K - 6000K	272,000
ECO-BN-005	1200	54	7560	140	4000K - 6000K	287,000

## FLUSH MOUNT CEILING LIGHT



⚡ PF ≥ 0.92

⚡ 100-265V  
AC  
in 50-60HZ

⚡ 50V DC  
out <300MA

Ecolighting

PC Plastic Base

SKU	Size (mm)	Power (W)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Shape	Quoted price (VND)
ECO-LT-001	D160x28	7	980	140	Round	-
ECO-LT-002	D220x28	9	1260	140	Round	-
ECO-LT-003	D220x28	12	1680	140	Round	-
ECO-LT-004	D280x28	16	2240	140	Round	-
ECO-LT-005	160x160x28	9	1260	140	Square	-
ECO-LT-006	210x210x28	12	1680	140	Square	-
ECO-LT-007	285x285x28	16	2240	140	Square	-

DOWNLIGHT

SPOTLIGHT

PANEL

SEMI-CIRCULAR  
LIGHT

FLUSH MOUNT  
CEILING

TUBE

STREET  
LAMP

INDUSTRIAL  
LIGHT

## TUBE T5 LIGHT

SKU	Size (mm)	Power (W)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Color	Quoted price (VND)
ECO-T5-001	300x36x22	5	700	140	4000K	124,000
ECO-T5-002	600x36x22	10	1400	140	4000K	152,000
ECO-T5-003	900x36x22	14	1960	140	4000K	165,000
ECO-T5-004	1200x36x22	18	2520	140	4000K	193,000



⚡ PF ≥ 0.92

100-265V  
AC  
in 50-60HZ

50V DC  
out <300MA

Ecolighting

PC Plastic Base

## TUBE T8 LIGHT

SKU	Size (mm)	Power (W)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Color	Quoted price (VND)
ECO-T8-001	600	6	840	140	6000K	159,000
ECO-T8-002	600	6	960	160	6000K	172,000
ECO-T8-003	1200	13	1820	140	6000K	212,000
ECO-T8-004	1200	13	2080	160	6000K	234,000



## WATERPROOF TUBE LIGHT

SKU	Size (mm)	Power (W)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Color	Quoted price (VND)
ECO-CN-002	1200	18	1800	100	4000K	223,000
ECO-CN-001	1200	9	900	100	4000K	193,000

DOWNLIGHT

SPOTLIGHT

PANEL

SEMI-CIRCULAR  
LIGHT

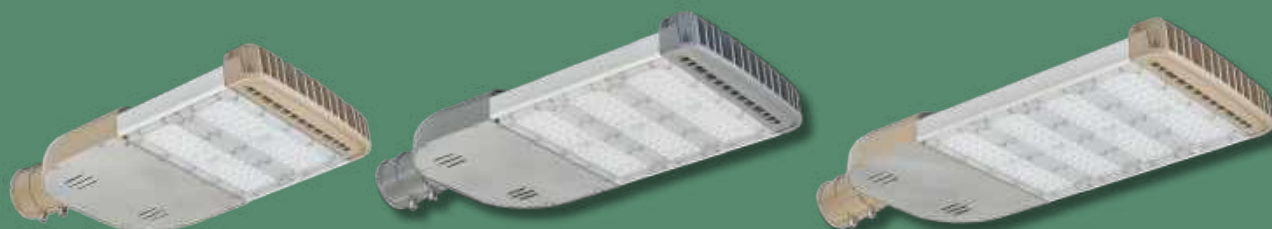
FLUSH MOUNT  
CEILING

TUBE

STREET  
LAMP

INDUSTRIAL  
LIGHT

# STREET LAMP



100W

150W

200W

⚡ PF ≥ 0.92

⚡ 100-265V  
AC  
in 50-60HZ

⚡ 50V DC  
out <300MA

🛡️ Anti-corrosion paint

🏗️ Aluminum

SKU	Size (mm)	Power (W)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	LED Driver	Quoted price (VND)
ECO-DD-001	550x280x100	100	14000	140	Phillips	4,766,000
ECO-DD-002	675x280x100	150	21000	140	Phillips	5,370,000
ECO-DD-003	675x280x100	200	28000	140	Phillips	5,885,000
ECO-DD-004	550x280x100	100	14000	140	Phillips	4,313,000
ECO-DD-005	675x280x100	150	21000	140	Phillips	5,271,000
ECO-DD-006	675x280x100	200	28000	140	Phillips	5,795,000

DOWNLIGHT

SPOTLIGHT

PANEL

SEMI-CIRCULAR  
LIGHT

FLUSH MOUNT  
CEILING

TUBE

STREET  
LAMP

INDUSTRIAL  
LIGHT



# FLOODLIGHT

⚡ PF ≥ 0.92

⏻ 100-265V  
AC  
in 50-60HZ

⏻ 50V DC  
out <300MA

🛡️ Anti-corrosion paint

🏗️ Aluminum



100W



250W



400W

SKU	Size (mm)	Power (W)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	LED Driver	Quoted price (VND)
ECO-MD-001	178x285x80	100	14000	140	Phillips	3,181,000
ECO-MD-002	290x263x120	150	21000	140	Phillips	3,666,000
ECO-MD-004	290x430x120	250	35000	140	Phillips	5,193,000
ECO-MD-006	350x570x120	400	56000	140	Phillips	7,860,000
ECO-MD-007	178x285x80	100	14000	140	<b>Ecolighting</b>	2,853,000
ECO-MD-008	290x263x120	150	21000	140	<b>Ecolighting</b>	3,720,000
ECO-MD-010	290x430x120	250	35000	140	<b>Ecolighting</b>	5,411,000
ECO-MD-011	265x570x120	300	42000	140	<b>Ecolighting</b>	6,163,000
ECO-MD-012	350x570x120	400	56000	140	<b>Ecolighting</b>	7,741,000

DOWNLIGHT

SPOTLIGHT

PANEL

SEMI-CIRCULAR  
LIGHT

FLUSH MOUNT  
CEILING

TUBE

STREET  
LAMP

INDUSTRIAL  
LIGHT

# FACTORY LIGHT

⚡ PF ≥ 0.92

⏻ 100-265V  
AC  
in 50-60HZ

⏻ 50V DC  
out <300MA

🛡️ Anti-corrosion paint

🏗️ Aluminum



50W



100W



250W

SKU	Size (mm)	Power (W)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	LED Driver	Quoted price (VND)
ECO-PHA-001	280x180x100	50	7000	140	Phillips	3,285,000
ECO-PHA-002	290x280x100	100	14000	140	Phillips	4,206,000
ECO-PHA-003	280x360x100	150	21000	140	Phillips	4,910,000
ECO-PHA-004	280x450x100	200	28000	140	Phillips	5,891,000
ECO-PHA-005	280x530x100	250	35000	140	Phillips	6,986,000
ECO-PHA-006	280x180x100	50	7000	140	Ecolighting	1,926,000
ECO-PHA-007	290x280x100	100	14000	140	Ecolighting	2,830,000
ECO-PHA-008	280x360x100	150	21000	140	Ecolighting	3,731,000
ECO-PHA-009	280x450x100	200	28000	140	Ecolighting	4,635,000
ECO-PHA-010	280x530x100	250	35000	140	Ecolighting	5,493,000

DOWNLIGHT

SPOTLIGHT

PANEL

SEMI-CIRCULAR  
LIGHT

FLUSH MOUNT  
CEILING

TUBE

STREET  
LAMP

INDUSTRIAL  
LIGHT

# HIGHBAY - FACTORY LIGHT

⚡ PF ≥ 0.92

⚡ 100-265V  
AC  
in 50-60HZ

⚡ 50V DC  
out <300MA

🛡️ Anti-corrosion paint

🏠 Aluminum



SKU	Size (mm)	Power (W)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	LED Driver	Quoted price (VND)
ECO-HB-001	280x180x100	100	14000	140	Ecolighting	3,347,000
ECO-HB-002	290x280x100	150	21000	140	Ecolighting	3,897,000
ECO-HB-003	280x360x100	200	28000	140	Ecolighting	4,706,000



DOWNLIGHT

SPOTLIGHT

PANEL

SEMI-CIRCULAR  
LIGHT

FLUSH MOUNT  
CEILING

TUBE

STREET  
LAMP

INDUSTRIAL  
LIGHT





# STATEMENTS





# Statements

## About quality

PFC Ecolighting is committed to ensuring the quality of each and every product through:

- ▶ Providing outstanding brightness, energy saving, and high durability LED products,
- ▶ Manufacturing with modern processes and ensuring strict inspection before delivery



### 1-for-1 warranty



“ At PFC Ecolighting, the interests of our partners and consumers guide every decision we make. ”



- ✔ Manufactured and supplied by PFC Ecolighting
- ✔ Within the warranty period
- ✔ Valid warranty card
- ✔ Defected by manufacturer's error
- ✔ Not tampered with by a third party



- ✘ Warranty period expired
- ✘ Invalid warranty card or information
- ✘ User error
- ✘ Damage caused by mechanical impacts, animal intrusion, natural disasters, and fires



# Statements

About sustainability



“ We believe that integrating business activities with social responsibility will help create a healthier, brighter future. ”



**Enhancing energy efficiency**  
 $\geq 0.92$  PF   140-160 Lm/W

**Reducing environmental waste**  
Product lifetime:  
 $\geq 70.000$  lighting hours

**Reducing CO<sub>2</sub> emission**  
during manufacturing and consumption





**Joint manufactured and exclusively distributed by:**



+84 922 79 3636

cskh@ecolighting.com.vn

ecolighting.com.vn

8th Floor, Viwaseen Tower, 48 To Huu Street, Nam Tu Liem District, Hanoi, Vietnam