

# LED MR16/ PAR30

## Features

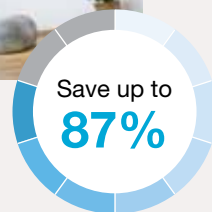
- Family look design
- High efficacy
- Various beam angles
- Long life up to 40,000 hours

## Applications

- Retail, hospitals, hotels, restaurants, museums

## Replacements

- MR16 20/ 35W ➔ POSCO LED 4/ 7W
- PAR30 75W ➔ POSCO LED 14W



# LED MR16/ PAR30

The light's on for you

## MR16 GU5.3

4W

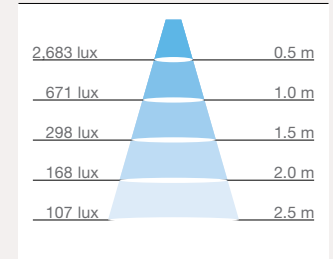
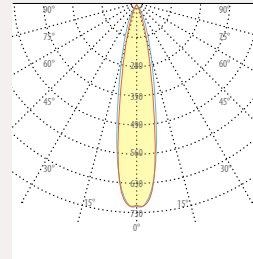
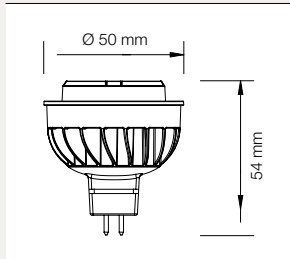
### Dimensional Drawing (mm)

### Light Distribution Curve

25°

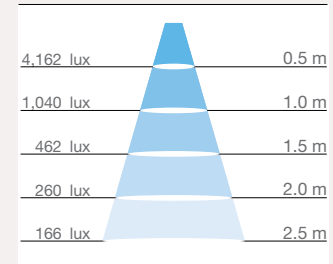
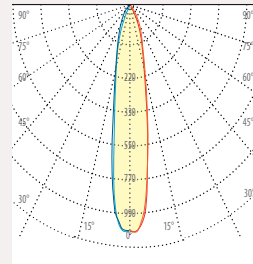
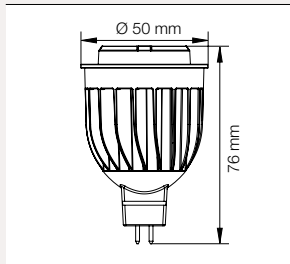
### Cone Lux Level(m)

25°



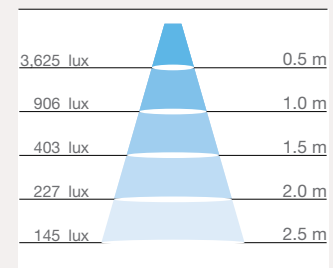
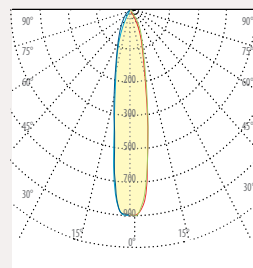
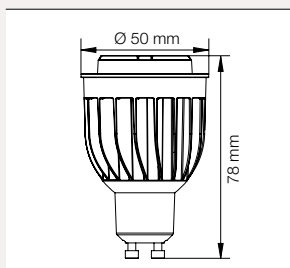
## GU5.3

7W



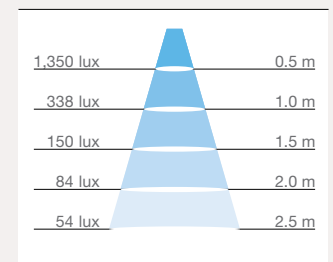
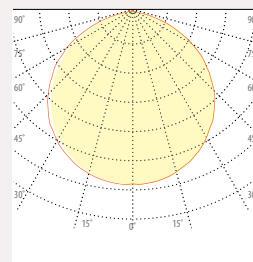
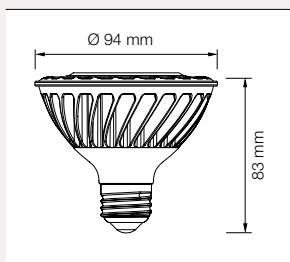
## GU10

7W



## PAR30

14W



## Specifications

Type	Product Code	Base	Watts (W)	Vin (V AC)	CCT (K)	Lumens (lm)	Beam Angles (deg.)	CRI (Ra)	Weight (g)	Dimensions ((D)x(H)mm)
NEW MR16	PMRMU041W220B	GU5.3	4	12	3,000 (5,000)	240 (260)	25/ 40	83(75)	60	Ø 50 x 54
NEW MR16	PMRMU071W220B	GU5.3	7	12	3,000 (5,000)	360 (460)	25/ 40	83(75)	110	Ø 50 x 76
NEW MR16	PPROV047W221B	GU10	4	230	3,000 (5,700)	200 (230)	25/ 40	83(75)	70	Ø 50 x 60
NEW MR16	PPROV077W221B	GU10	7	230	3,000 (5,000)	310 (400)	25/ 40	83(75)	120	Ø 50 x 78
NEW PAR30	NPRPE147W2B00	E26	14	220~240	3,000	880	110	80	190	Ø 94 x 83

\* Contents above are subject to change and may not immediately indicate ongoing and most recent changes.

# AC LED LAMP



## Features

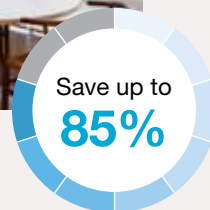
- High efficacy
- Long life up to 40,000 hours

## Applications

- 9W, 13W : Residential, commercial, agricultural lighting, Floor lights, downlights
- 36W : big box retails, warehouses, conventional markets, and other commercial facilities

## Replacement

- Incandescent lamp 60W, CFL 20W ➡ POSCO LED 9W
- Incandescent lamp 75W , CFL 25W ➡ POSCO LED 13W
- CFL 55W - 100W or HID 70W ➡ POSCO LED 36W



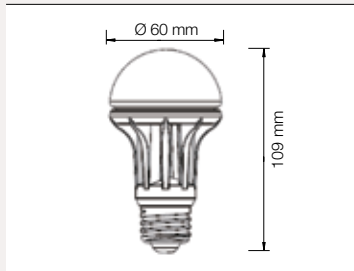
# AC LED LAMP

The light's on for you

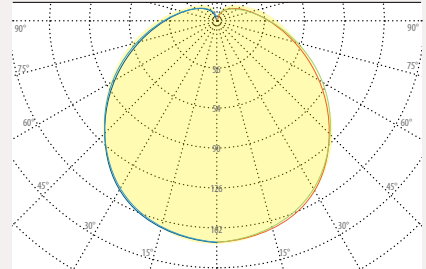
## 9W



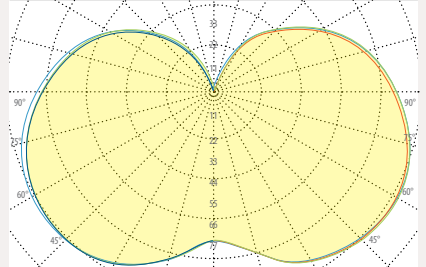
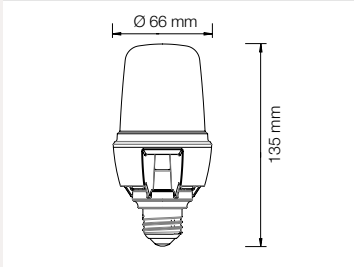
## Dimensional Drawing (mm)



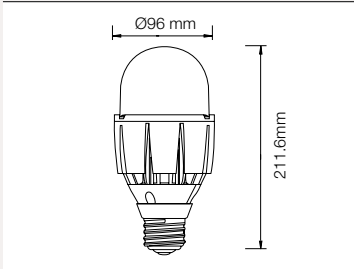
## Light Distribution Curve



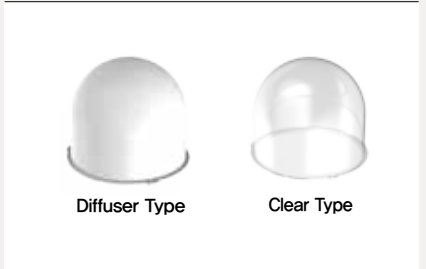
## 13W



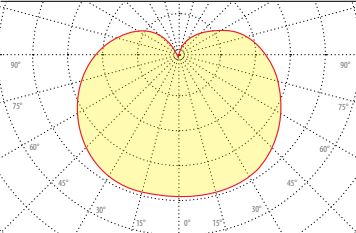
## 36W



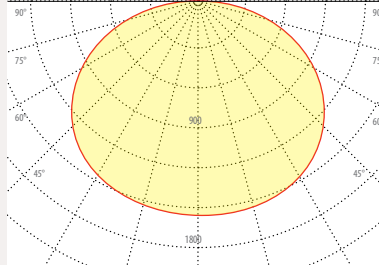
## Various Cover



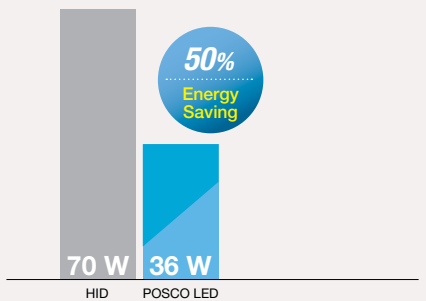
## Diffuser Type (210°)



## Clear Type (120°)



## Energy Saving



## Specifications

Product Code	Base	Watts (W)	Vin (V AC)	CCT (K)	Lumens (lm)	CRI (Ra)	Weight (g)	Dimensions ((D)x(H)mm)
PBLAE093W2C00	E26/ E27	9	220~240	3,000	680	80 ↑	103	Ø 60 x 109
PBLAE093N3C00	E26/ E27	9	220~240	5,000	770	80 ↑	103	Ø 60 x 109
PBLAE093W2C0D	B22	9	220~240	3,000	680	80 ↑	103	Ø 60 x 115
PBLAE093N3C0D	B22	9	220~240	5,000	770	80 ↑	103	Ø 60 x 115
PBLAE133W2M0B	E26/ E27	13	220~240	3,000	900	80 ↑	180	Ø 66 x 135
PBLAE133N3M0B	E26/ E27	13	220~240	5,000	1,000	80 ↑	180	Ø 66 x 135
NEW PBLAF363W2M00	E39/ E40	36	220~240	3,000	2,520	80 ↑	620	Ø 96 x 212
NEW PBLAF363N3M00	E39/ E40	36	220~240	5,000	2,880	80 ↑	620	Ø 96 x 212
NEW PBLAF363W2A00	E39/ E40	36	220~240	3,000	2,740	80 ↑	620	Ø 96 x 212
NEW PBLAF363N3A00	E39/ E40	36	220~240	5,000	3,060	80 ↑	620	Ø 96 x 212

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# LED Tube

## • Features

- Energy saving
- High efficacy
- Eco-friendly (no hazardous substances)
- Fully compatible with existing fluorescent lamp fittings

## • Applications

- Offices, educational facilities
- Retails, parking lots

## • Replacements

- FL 20W ➔ POSCO LED 12W
- FL 32 ~ 40W ➔ POSCO LED 18/ 24W
- FL 110W ➔ POSCO LED 48/ 60W



Save up to  
**56%**

# LED Tube

The light's on for you



Cost-efficiency



Eco-friendliness



Lightweight



Improved Productivity

## Energy Saving

Offers up to **56%** energy saving over existing fluorescent lamps

## Eco-friendly Lighting

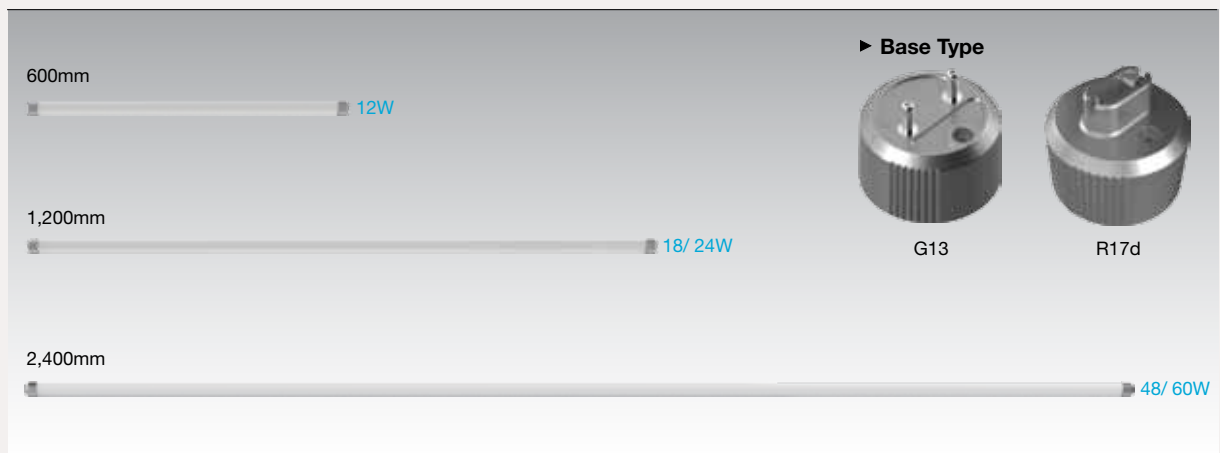
Reduces **56%** CO<sub>2</sub> Emissions compared to existing fluorescent lamps and contains no mercury.

## Long Lifetime

Long life up to **40,000** hours reduces maintenance costs by extending re-lamp cycle.

## Compatibility with Existing Lamp Fittings

Compatibility with existing fluorescent lamp fittings enables easy installation and reduces installation costs.



## Specifications

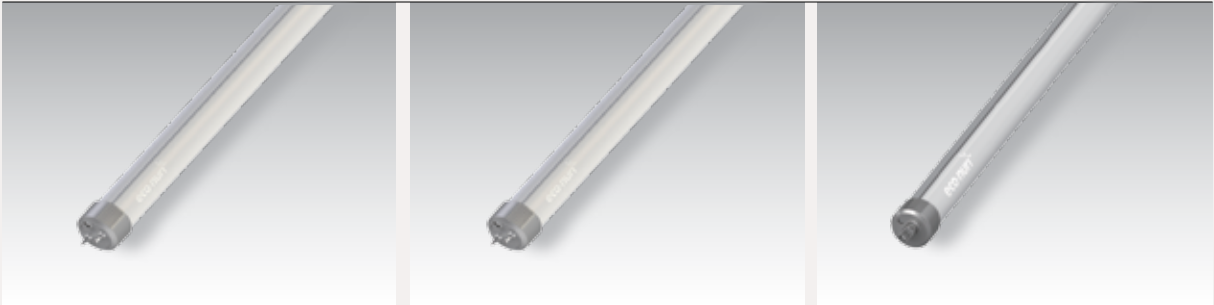
Product Code	Base	Watts (W)	Vin (V AC)	CCT (K)	CRI (Ra)	Lumens (lm)	Beam Angles (deg.)	Weight (g)	Dimensions ((D)x(L)mm)
ITBUG13EN1ED0	G13	12	100 ~ 240	4,000	78 I	900	150	160	Ø 25.5 x 580
ITBUG13EN3ED0	G13	12	100 ~ 240	5,000	78 I	950	150	160	Ø 25.5 x 580
ITBUG26EN3EDA	G13	18	100 ~ 240	5,000	78 I	2,000	150	300	Ø 25.5 x 1,198
ITBUG26EN1ED0	G13	24	100 ~ 240	4,000	78 I	2,000	150	300	Ø 25.5 x 1,198
ITBUG26EN3ED0	G13	24	100 ~ 240	5,000	78 I	2,100	150	300	Ø 25.5 x 1,198
ITBVR50EN1ED0	R17d	48	100 ~ 240	4,000	78 I	4,100	150	700	Ø 29 x 2,368
		60	100 ~ 240	4,000	78 I	5,300	150	700	Ø 29 x 2,368
ITBVR50EN3ED0	R17d	48	100 ~ 240	5,000	78 I	4,400	150	700	Ø 29 x 2,368
		60	100 ~ 240	5,000	78 I	5,300	150	700	Ø 29 x 2,368

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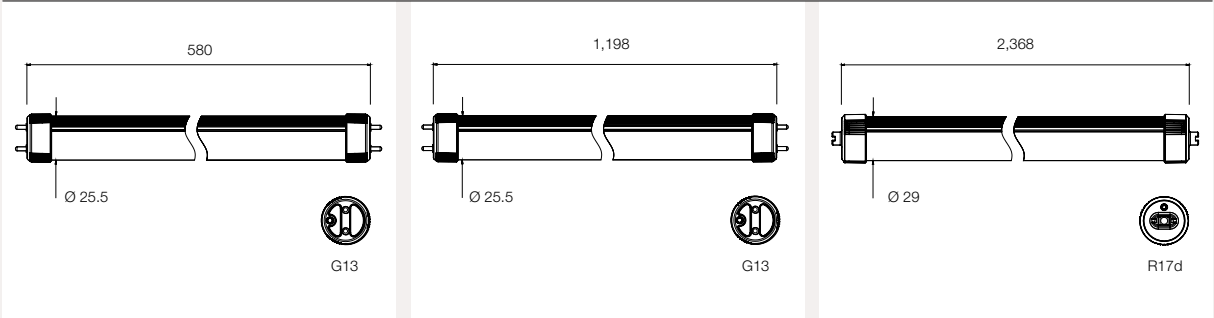
# LED Tube

The light's on for you

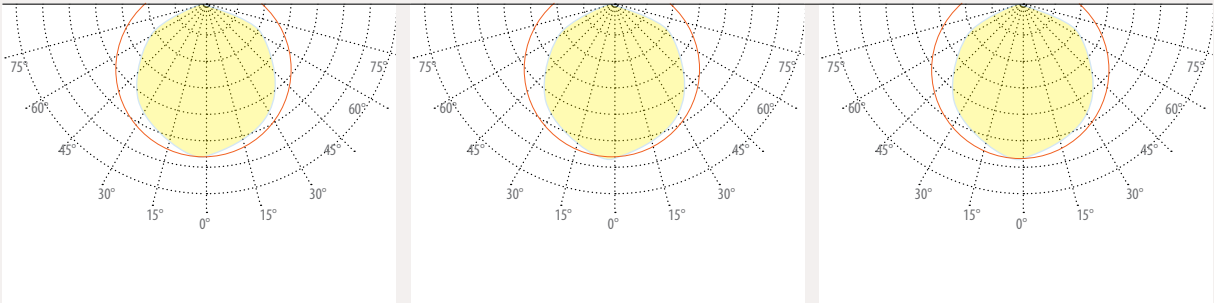
600mm 12W 1,200mm 18W 2,400mm 48W



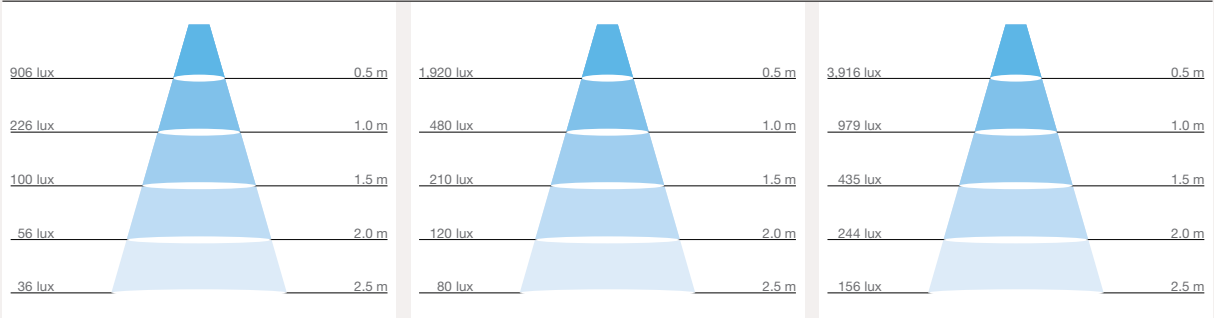
## Dimensional Drawing (mm)



## Light Distribution Curve



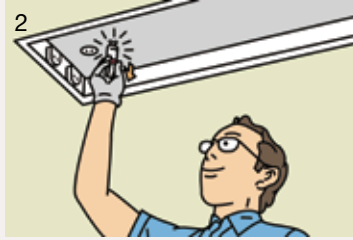
## Cone Lux Level(m)



## LED Tube Installation Guide



1 Detach existing fluorescent lamp. (Switch off the power before operation)



2 Remove the glow starter.



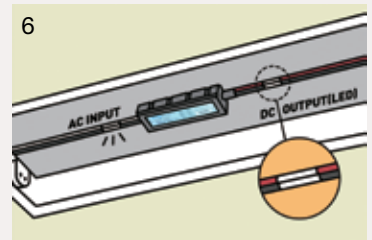
3 Dismantle lamp fixture to replace the ballast stabilizer.



4 Make sure the power is shut off to avoid electric shock, then cut the wires connected to the ballast.



5 Replace the removed ballast with the LED SMPS and connect the wires.



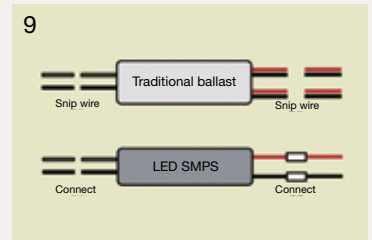
6 Make sure the wires has been connected firmly with crimp sleeves and fixed with binding bands to prevent fire.



7 Check if the LED SMPS has been connected correctly and reassemble the lamp fixture.



8 Attach the LED tube to the lamp fixture. LED tubes can be attached in either directions.



9 This is an example of a wire connection for LED SMPS: Connect wires with same color.

### CAUTIONS AND WARNINGS

- Disconnect power before installing, dismantling, or cleaning product. Risk of electrical shock.
- Do not drop, hit, scratch, or apply excessive force to this unit. Risk of injury.
- Observe lamp manufacturer's recommendations on lighting fixture type and wattage. Risk of overheating.
- Do not touch lamp with bare hands. Risk of burns.
- Do not expose the unit to water or moisture. Risk of electrical shock.
- Fully insert lamp into socket not to drop.
- Take away paper or cloth from lamp. Risk of fire.
- Avoid vibration or shock not to drop.
- Do not expose your eyes for too long to LED light. Risk of eyestrains or eye injuries.

### INSTALLATION GUIDE

- Before you install, read instructions completely and carefully.
- Make sure to remove the existing ballast or inverter.
- After changing the existing electrical connections into the ones for LED lights, do not install conventional fluorescent lamps or other LED tubes, except POSCO LED lamps

# LED PANEL LIGHT

## Features

- Slim & lightweight design
- High efficacy
- Smart lighting control system (Dimmable)
- Long life up to 40,000 hours

## Applications

- Offices, Home, Educational facilities
- Commercial lighting

## Replacements

- FL 32/ 40W x 2    POSCO LED 40/ 54W
- FPL 36W x 3    POSCO LED 54W



Save up to  
**50%**

LED PANEL LIGHT

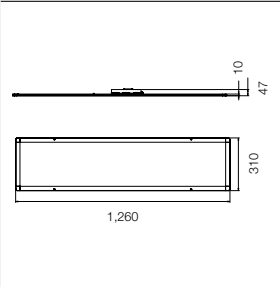
Edge Type

The light's on for you

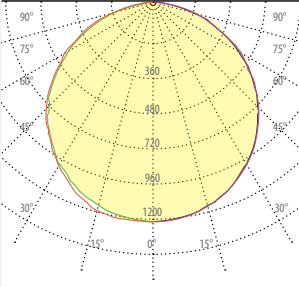
300 x 1200/ M-Bar 40W



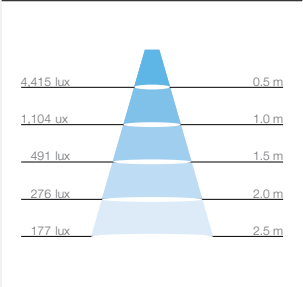
Dimensional Drawing (mm)



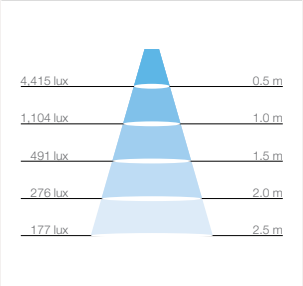
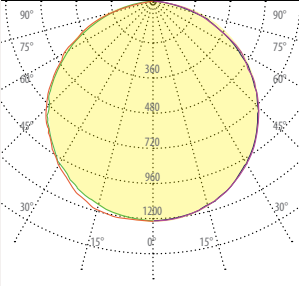
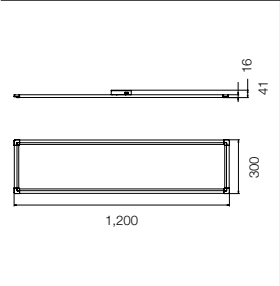
Light Distribution Curve



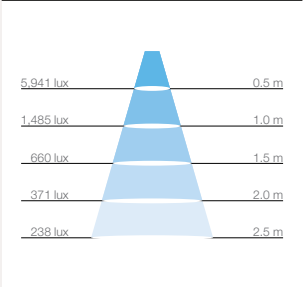
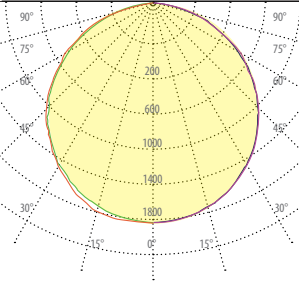
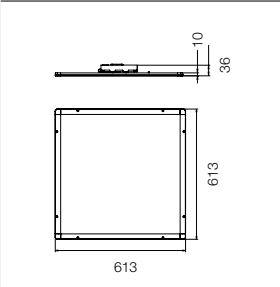
Illuminance Chart



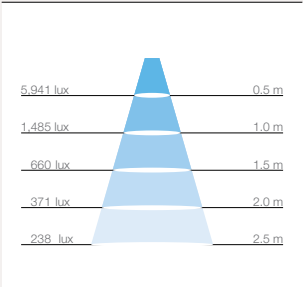
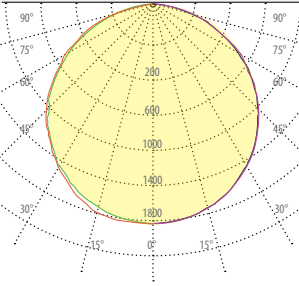
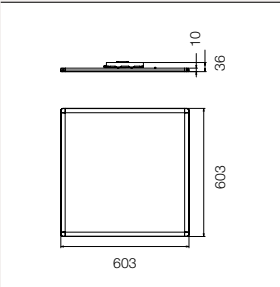
300 x 1200/ T-Bar 40W



600 x 600/ M-Bar 54W



600 x 600/ T-Bar 54W



Specifications

Product Code	Type	Watts (W)	Vin (V AC)	CCT (K)	Lumens (lm)	CRI (Ra)	Weight (kg)	Dimensions ((W)x(L)mm)
PPBMB543C1B0A	M-bar	54	100 ~ 240	5,700 (4,000)	4,320 (4,050)	80+	5.7	310 x 1,260
PPDMB543C1B0A	M-bar		100 ~ 240	5,700 (4,000)	4,320 (4,050)	80+	5.0	613 x 613
PPDMTB543C1B0A	T-bar		100 ~ 240	5,700 (4,000)	4,320 (4,050)	80+	4.8	603 x 603
PPBMB403C1B0A	M-bar	40	100 ~ 240	5,700	3,200	80+	5.7	310 x 1,260
PPBTB403C1B0A	T-bar		100 ~ 240	5,700	3,200	80+	5.7	300 x 1,205

# LED PANEL LIGHT

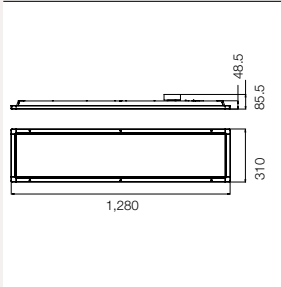
## Direct Type

The light's on for you

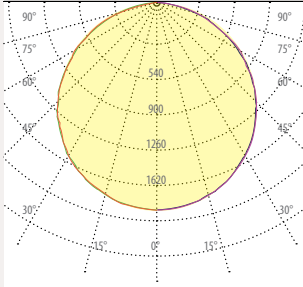
### 300 x 1200/ M-Bar 40W



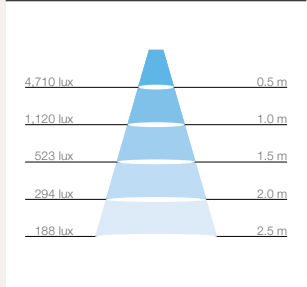
#### Dimensional Drawing (mm)



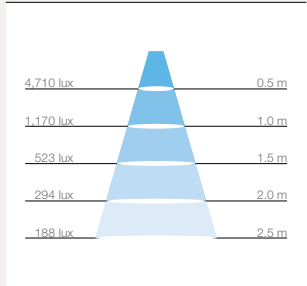
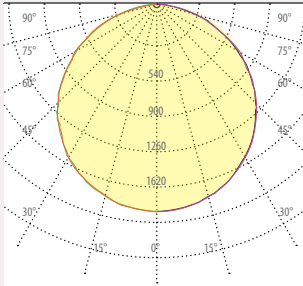
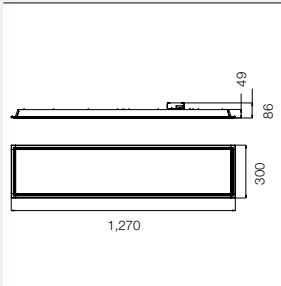
#### Light Distribution Curve



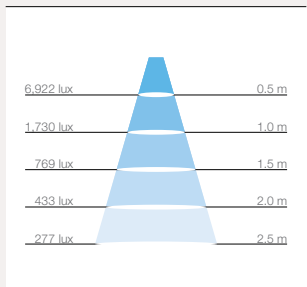
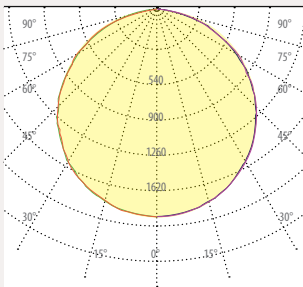
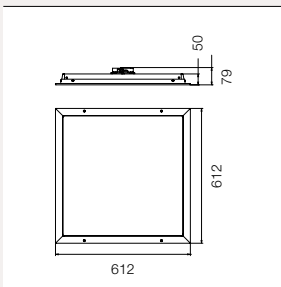
#### Illuminance Chart



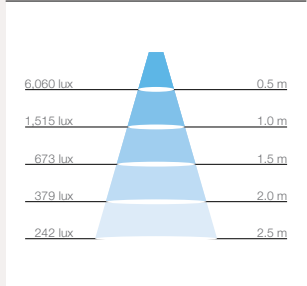
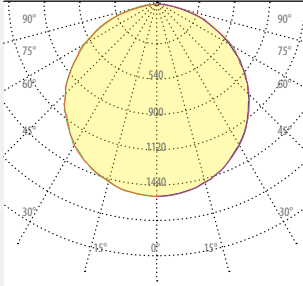
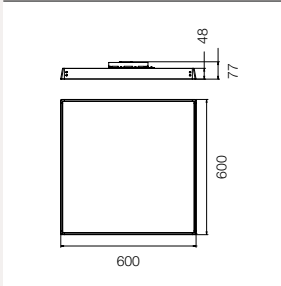
### 300 x 1200/ T-Bar 40W



### 600 x 600/ M-Bar 54W



### 600 x 600/ T-Bar 54W



## Specifications

Product Code	Type	Watts (W)	Vin (V AC)	CCT (K)	Lumens (lm)	CRI (Ra)	Weight (kg)	Dimensions (W)x(L)mm
PPAMB554C1B00	M-bar	54	100 ~ 240	5,700 (4,000)	4,590 (4,300)	80 <sup>l</sup>	4.6	310 x 1,260
PPATB544N3B00	T-bar		100 ~ 240	5,000	4,320	80 <sup>l</sup>	4.0	300 x 1,200
PPCMB544C1B00	M-bar		100 ~ 240	5,700 (4,000)	4,590 (4,300)	80 <sup>l</sup>	4.3	612 x 612
PPCTB544C1B00	T-bar		100 ~ 240	5,700 (4,000)	4,590 (4,300)	80 <sup>l</sup>	3.8	600 x 600
PPAMB404C1B01	M-bar	40	100 ~ 240	5,700	3,340	80 <sup>l</sup>	4.3	310 x 1,280
PPATB404C0B01	T-bar		100 ~ 240	5,700	3,340	80 <sup>l</sup>	4.3	300 x 1,270



**TREES** 8,142 <sup>trees</sup> ↑  
**CO<sub>2</sub>** 162,840 <sup>kg</sup> ↓  
**ENERGY** 849,580 <sup>kWh</sup> ↓  
**COST** 34,914 <sup>USD</sup> ↓

The annual effects  
of replacing 1,800  
conventional lamps with  
POSCO LED products

NOTE : Values based upon 10hrs/day, 22days/month, 12months, electricity cost=90KRW/kWh, exchange rate : 1USD=1,100KRW, annual CO<sub>2</sub> absorption/tree = 20kg

# POSCO ICT Smart Building

POSCO ICT Smart building annually saves 34,914USD and 849,580kWh of electricity by replacing about 1,800 conventional lamps with energy-efficient and eco-friendly POSCO LED lights. Furthermore, it reduces 162,840kg of CO<sub>2</sub> emission per year, which is equivalent to planting 8,142trees a year.



	Existing Lights	POSCO LED Lights
kWh/ year	1,699,159	849,580
Energy Saving		50 %
CO <sub>2</sub> reduction (kg) per year		162,840
Energy cost saving (₩) per year		38,405,664

Replacements	
• FL 32 ~ 40W x 2	POSCO LED Panel Light 40/ 54W
• FPL 36W x 3	POSCO LED Panel Light 54W



# LED TROFFER

## • Features

- Slim & lightweight design
- High efficacy
- Smart lighting control system

## • Applications

- Offices, home, educational facilities

## • Replacements

- FPL 36W x 3, LFL 20W x 3
  - POSCO LED 43W



Save up to  
**60%**



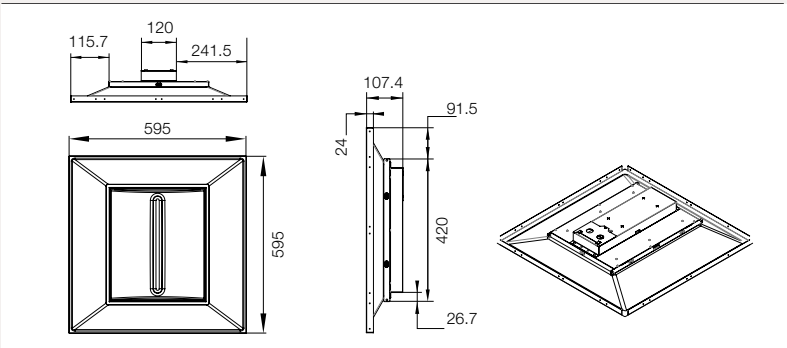
LED TROFFER

The light's on for you

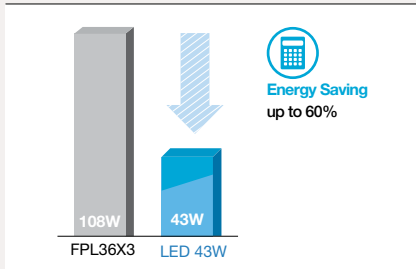
43W



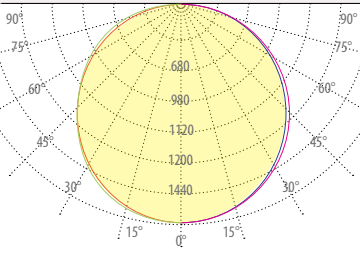
Dimensional Drawing (mm)



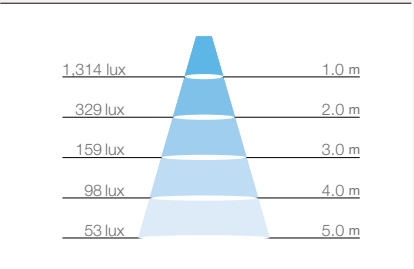
Saving Effect



Light Distribution Curve



Cone Lux Level(m)



Specifications

Product Code	Watts (W)	Vin (V AC)	CCT (K)	CRI (Ra)	Lumens (lm)	Beam Angles (deg.)	Weight (kg)	Dimensions ((D)x(L)mm)
PPCTB433N1B10	43	100 ~ 240	4,000	80 ↑	3,850	115	4.5	595 x 595 x 107
PPCTB433N3B10	43	100 ~ 240	5,000	80 ↑	4,000	115	4.5	595 x 595 x 107

\* Contents above are subject to change and may not immediately indicate ongoing and most recent changes.

# LED DOWN LIGHT



## Features

- Lightweight design
- Double-spring clips and detachable SMPS for easy installation
- Long life up to 40,000 hours

## Applications

- Commercial lighting
- Offices, educational facilities

## Replacements

- CFL 13W x 1 ~ CFL 26W x 2
  - POSCO LED 10~20W
- HQI 70W
  - POSCO LED 45W



Save up to  
**62%**



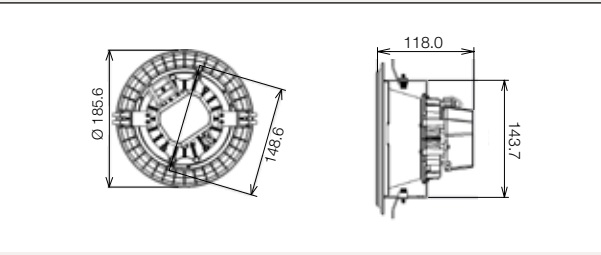
LED DOWN LIGHT

The light's on for you

6 inch

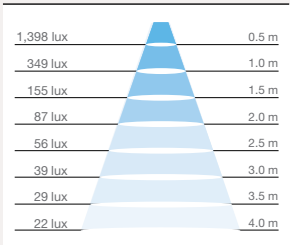
10/ 15/ 19W

Dimensional Drawing (mm)

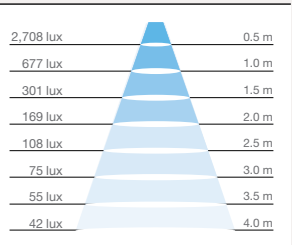


Cone Lux Level(m)

10W

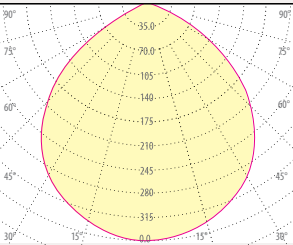


19W

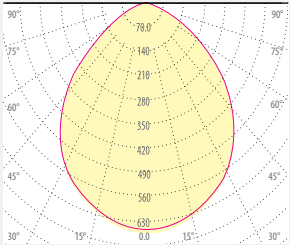


Light Distribution Curve

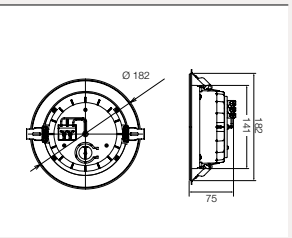
10W



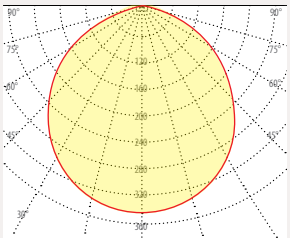
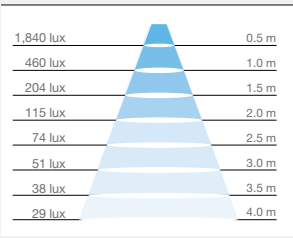
19W



14W

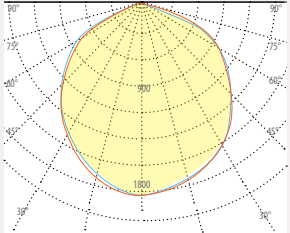
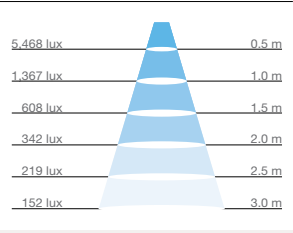
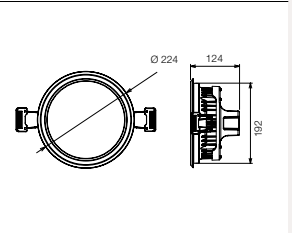


5,000K



8 inch

45W



Specifications

Product Code	Type	Watts (W)	Vin (V AC)	CCT (K)	Lumens (lm)	CRI (Ra)	Weight (g)	Dimensions ((D)x(H)mm)
PDL62103N1B00	6 Inch	10	220	4,000	530	80 ↑	530	Ø 185.6 x 118
PDL62103C1B00	6 Inch	10	220	5,700	820	80 ↑	560	Ø 185.6 x 118
NEW NDL62147W2B00	6 Inch	14	220~240	3,000	1,000	80 ↑	390	Ø 182 x 75
NEW NDL62147N1B00	6 Inch	14	220~240	4,000	1,200	80 ↑	390	Ø 182 x 75
NEW NDL62147N3B00	6 Inch	14	220~240	5,000	1,200	80 ↑	390	Ø 182 x 75
PDL62153N1B00	6 Inch	15	220	4,000	1,170	80 ↑	580	Ø 185.6 x 118
PDL62153C1B00	6 Inch	15	220	5,700	1,230	80 ↑	580	Ø 185.6 x 118
PDL62203N1B00	6 Inch	19	100~240	4,000	1,425	80 ↑	620	Ø 185.6 x 118
PDL62203C1B00	6 Inch	19	100~240	5,700	1,558	80 ↑	620	Ø 185.6 x 118
PDL81453N3A10	8 Inch	45	100~240	5,000	3,375	80 ↑	1,350	Ø 224 x 124

\* Contents above are subject to change and may not immediately indicate ongoing and most recent changes.

# LED LINEAR LIGHT



## Features

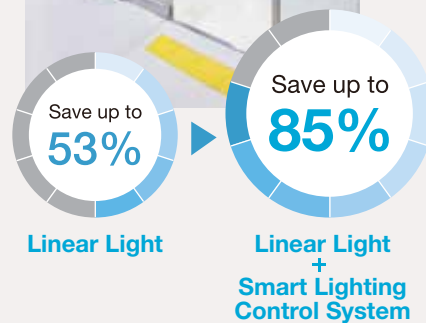
- Slim and simple design
- Various types of installations available (pendant, raceway, etc)
- Protection against dust and moisture (IP65)
- Smart lighting control and dimming available
- Long life up to 40,000 hours

## Applications

- Parking lots, factories, warehouses, offices, educational facilities

## Replacements

- FL 32 ~ 40W x 1 or 2
- POSCO LED 19/ 30W



reddot design award  
winner 2012



# LED LINEAR LIGHT

The light's on for you

## 1. Cost-efficiency

- Smart lighting system turns on only when someone parks and only where people or cars pass by
- Saves up to 85% in energy costs compared to conventional lamps
- Long life and low maintenance costs

## 3. Safe Environment

- Spotlight effect that lights shine only on the areas where people or cars pass by reduces criminal minds

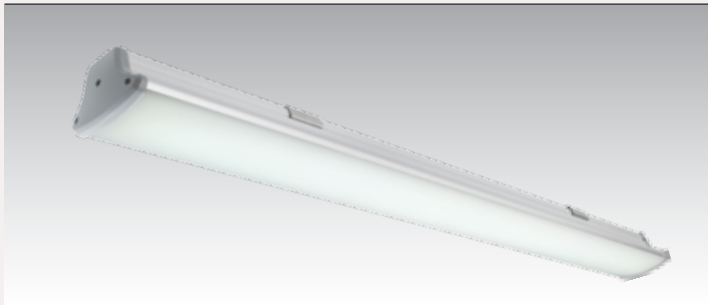
## 2. Modernized and Enhanced Spaces

- The small and lightweight characteristics enable products' compact design
- Improving working and living environment with highly uniform illuminance

## 4. Differentiated Functions

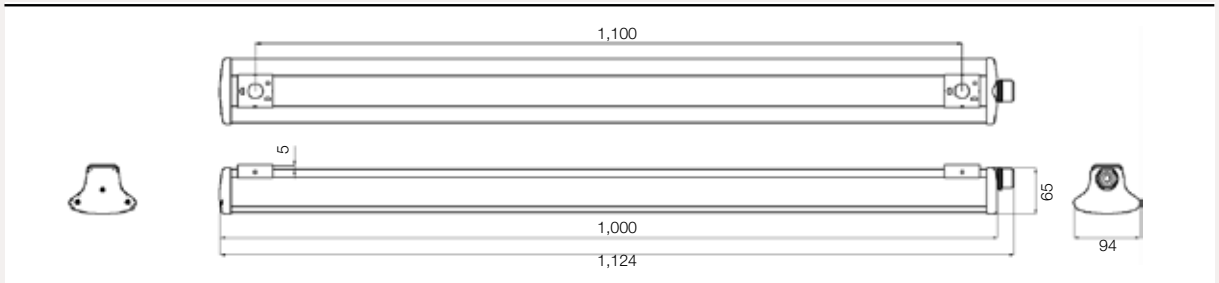
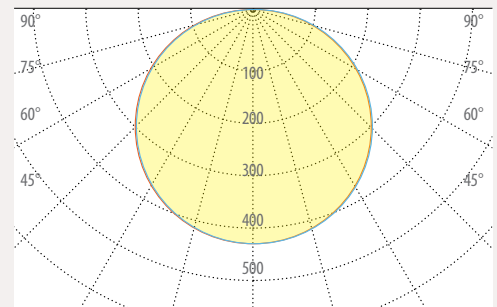
- High luminous efficacy (80lm/W <sup>1</sup>)
- Light source protection against dust and moisture allows for preventing dust and insect inflow (IP65)

19/ 30W



Light Distribution Curve

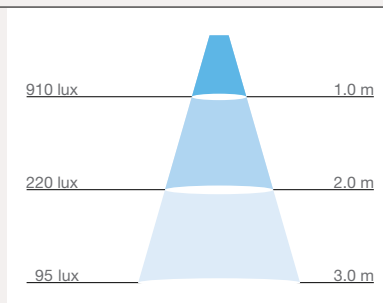
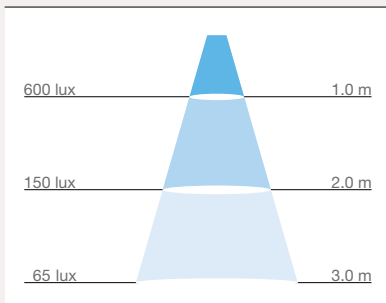
19W



Cone Lux Level(m)

19W

30W



## Specifications

Product Code	Watts (W)	Vin (V AC)	CCT (K)	Lumens (lm)	Efficacy (lm/W)	Beam Angles (deg.)	CRI (Ra)	Weight (kg)	Dimensions (LxWxH:mm)	Control System	Cert.
PLNRW194N1C40	19	[100 ~ 240]	4,000	1,500	80 l	120	80 l	1.5	1,124 x 94 x 65	x	CE
PPLRW194N1C0A	19	[100 ~ 240]	4,000	1,500	80 l	120	80 l	1.5	1,124 x 94 x 65	x	VDE
PPLRW194N1C0C	19	[100 ~ 240]	4,000	1,400	75 l	120	80 l	1.5	1,124 x 94 x 65	o	VDE
PPLRW304N1C0C	30	[200 ~ 240]	4,000	2,350	80 l	120	80 l	1.5	1,124 x 94 x 65	x	VDE

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# LED LINEAR LIGHT

The light's on for you

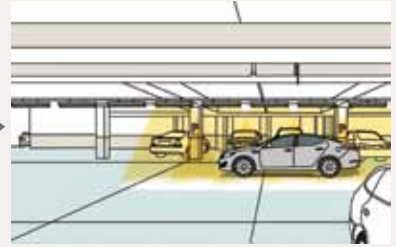
## Smart LED Lighting System



Car Entry



Moving Object Detection - Cars



Moving Object Detection - Cars

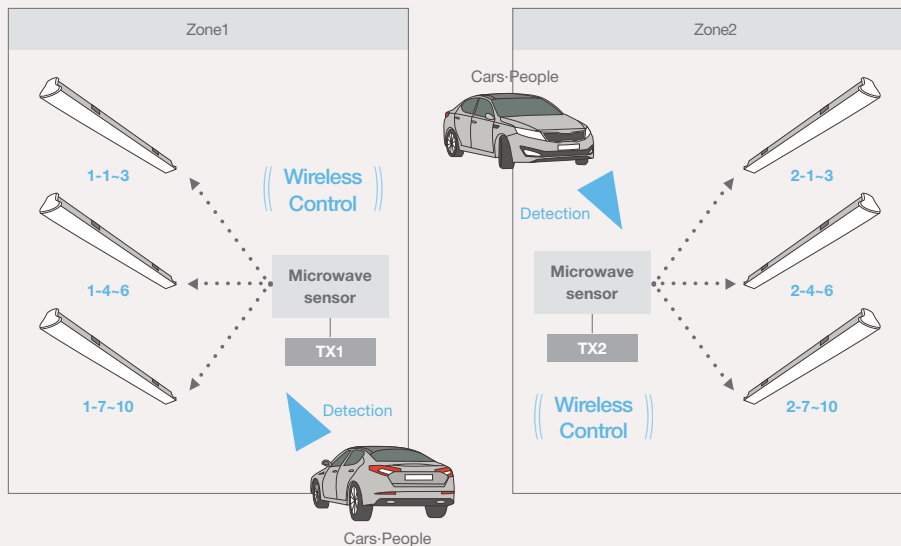


Car Parking Detection



Moving Object Detection - People

## Operating Principles of Smart Lighting System



### Functions

1. ID Setting of Sections and LED Lamps
2. Dimming Setting (Max/ Min)
3. Dimming Time Setting
4. Sequential Dimming-out Setting



Cars-People



Moving  
Object  
Detection



Microwave  
Sensor



T X



Control  
Transfer  
Instruction



R X



Light-on /  
Dimming



**TREES** 1,515 <sup>trees</sup>

**CO<sub>2</sub>** 30,308 <sup>kg</sup>

**ENERGY** 71,482 <sup>kWh</sup>

**COST** 6,498 <sup>USD</sup>

The annual effects  
of replacing 240  
conventional lamps with  
POSCO LED products

Note : Values based upon 12month, 22days/months, 10hrs/day, electricity cost = 90KRW/kWh, exchange rate : 1USD = 1,100KRW, annual CO<sub>2</sub> absorption/ tree = 20kg

## POSCO ICT Smart Building

POSCO ICT Smart building annually saves 6,498USD and 71,482kWh of electricity by replacing about 240 conventional lamps with energy-efficient and eco-friendly POSCO LED lights. Furthermore, it reduces 30,308kg of CO<sub>2</sub> emission per year, which is equivalent to planting 1,515trees a year.



	Existing Lights	POSCO LED Lights
kWh/ year	134,553	71,482
Energy Saving		53 %
CO <sub>2</sub> reduction (kg) per year		30,308
Energy cost saving (₩) per year		7,148,160

Replacement
• FL 32 ~ 40W x 1 or 2    • POSCO LED Linear Light 15/ 19/ 30W