

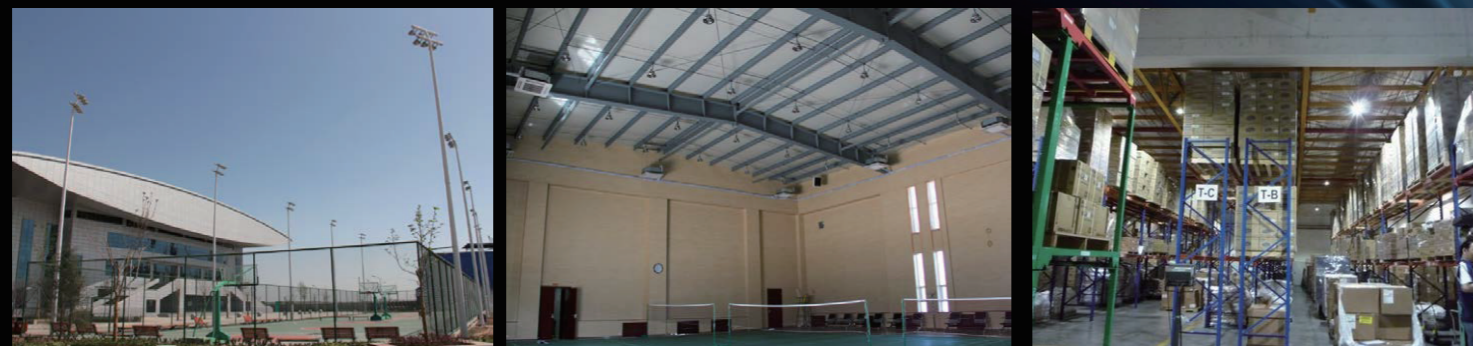
Cost Simulation Assuming installation of the PR-DOME-80 series

Utility contract category: High Voltage A Average electricity cost: ¥25/kwh Maximum electricity: 500kW

Lamp source	400W mercury lamp	PR-DOME-80
Power	450W	80W
Number	50 lamps	50 lamps
Days of operation	260 days	260 days
Lighting cycle	10 hours/day	10 hours/day
Annual electricity cost	¥1,462,500	¥260,000

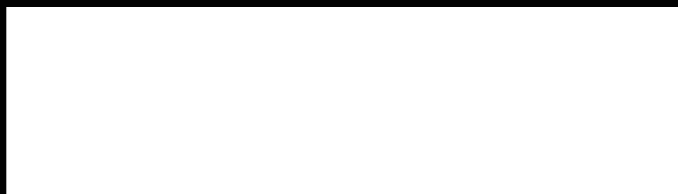
1,202,500円の
コスト減!

Installation examples



PRIMESTAR CO., LTD

<http://primestar.co.jp/> 電話 : 03-6869-6606
 FAX : 03-6869-6607 EMAIL : info@primestar.co.jp
 7F, Akasaka Subaru Building, 5-5-9, Akasaka, Tokyo, Japan (1F Showroom)

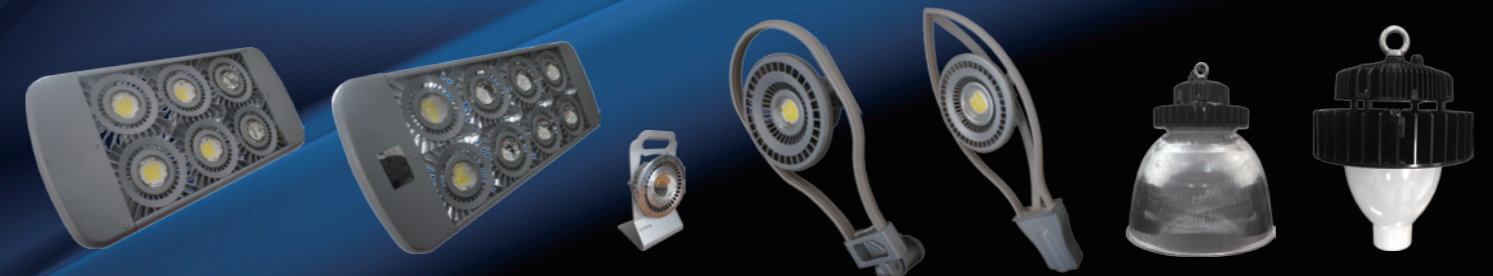


IP67 Dust/Water Proof, Rust/Salt Damage Resistant
TOUGH in a rugged environment,
but EASY on the eyes

Glare-free due to the COB one-core LED lens
High-ceiling LED Lamp Series

DOME

PR-DOME-50/PR-DOME-80/PR-DOME-110/PR-DOME-300-C/PR-DOME-400-C
 PR-DOME-ST60/PR-DOME-ST100/PR-DOME-ST150
 DOME-THL-100/DOME-THL-150/DOME-THL-200
 DOME-SKL-100/DOME-SKL-150/DOME-SKL-200



Japan's One and Only!!

The only CISPR 11・15・22-compliant high-ceiling LED

In accord with all of the following inspection codes:

IP67 Dust/Water Proof Test

JQA

Salt Water Spray Test

JET

High Temperature/Humidity Endurance Test

JQA

International Noise Standard Certification

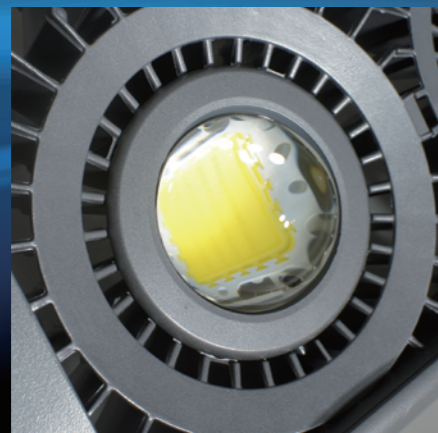
JQA

Clears the strictest radio interference tolerance standards required at precision instrument manufacturing sites

Versatile applications: factories, warehouses, roadsides, street-sides, construction sites, golf ranges, underwater pool lighting, etc.

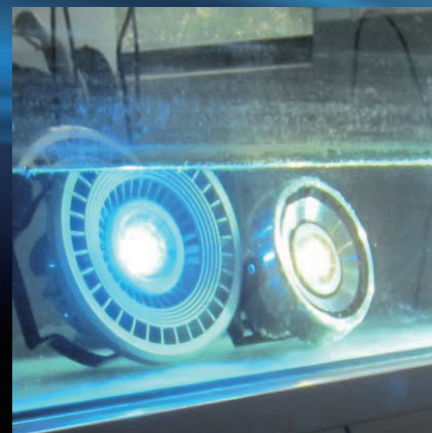
The DOME series is our LED lineup developed specifically for high-ceiling applications such as factories or gymnasiums, and outdoor facilities such as parking lots. It embeds a power supply compliant to both 100V/200V and therefore easy to install anywhere. The series is IP67 dust/water proof compliant (partially also IP65 compliant) and suitable for outdoor use. Power ranges from 50W up to 400W, consisting of five categories to choose from to meet any need. Mercury lamps typically take up to ten minutes before reaching its mandated brightness, but with LEDs it is instantaneous. This allows lamps to be turned off during recess and break hours, further contributing to energy savings. LED's radio frequency characteristics are also known to be insect repellent, making it ideal for use in kitchen/pantry and food factory settings. The larger the space, the longer the lighting cycle, the bigger the savings become (in both electricity billing and maintenance) by upgrading from current conventional lamps. Ultimately, this contributes to lowering carbon emissions and reducing mercury circulation into the environment.

The 3 Characteristics of the DOME Series



COB One-core LED Lens

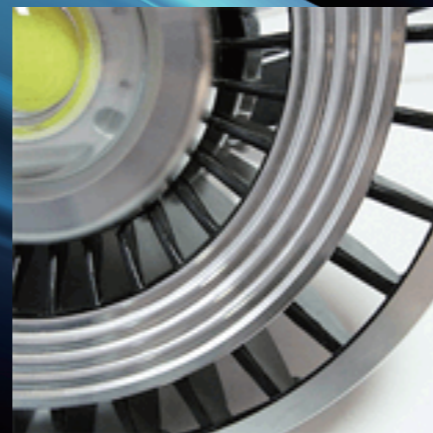
DOME consists of a COB or chip-on-board, one-core LED structure. This eradicates the glare that had been typical of most LEDs, in turn, delivering a coherent easy-on-eyes brightness.



IP67 Waterproof Assured

DOME is also IP67 dust/water proof assured, durable for outdoor use as well as factories and warehouses with challenging conditions.

※The sample picture above is for an underwater application currently in use for three years.

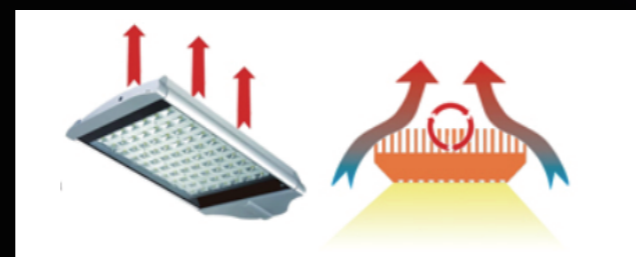


Efficient Heat Dissipation

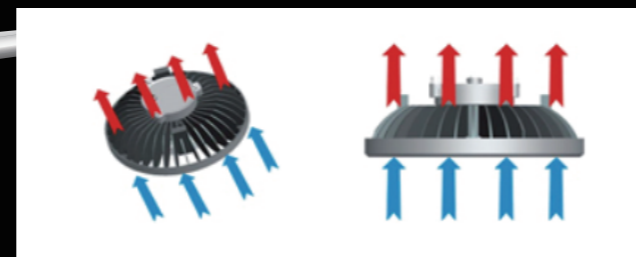
DOME is equipped with jet turbine-like fins which efficiently conduct heat away from the module, thereby protecting the lamp from overheating.

Efficient Heat Dissipation Structure

Design inspired by the jet engine turbine.



Heat sink structures contribute to heat conductivity via its total area of air exposure, however, the center zone where it gets the hottest is not adequately cooled due to the heat wave effect of the surrounding fins.



The DOME adopts a more direct and smooth heat conductive architecture, whereby heat is dissipated into open air faster and more efficiently.

PR-DOME Lineup



PR-DOME 50/80/110 COB structure - coherent easy-on-eyes brightness

Developed specifically for high-ceiling applications such as factories or gymnasiums. Reaches its designed brightness instantaneously, allowing lamps to be turned off during recess and break hours, further contributing to energy savings. By upgrading from current conventional lamps you will be able to save in both electricity billing and maintenance. IP67 dust/water proof as well as rust/salt damage resistant, making it durable for outdoor use as well as factories and warehouses with challenging conditions. Power supply embedded, making it easy to install anywhere.



PR-DOME-ST60/100 Ideal for replacing outdoor 250W-400W mercury lamps

Ideal for roadside/curb lighting and outdoor parking lots. Made of die-cast aluminum alloy. IP67 dust/water proof as well as rust/salt damage resistant, making it ideal for ocean front facilities and parks.



PR-DOME-ST150 Ideal for replacing outdoor 400W mercury lamps

Ideal for roadside/curb lighting and outdoor parking lots. Made of die-cast aluminum alloy. IP67 dust/water proof as well as rust/salt damage resistant, making it ideal for ocean front facilities and parks.



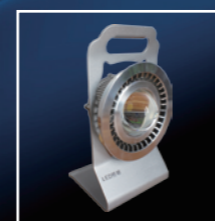
PR-DOME-300-C Ideal for replacing 1,000W mercury lamps

Covering a wide range of applications including golf ranges, tennis courts, soccer stadiums, high-ceiling applications such as factories or gymnasiums, parking lots and any other kind of outdoor location. Power consumption is 300W and when used to replace 1,000W mercury lamps, could contribute to as much as an 80% cut in electricity usage. IP65 compliant.



PR-DOME-400-C Ideal for replacing 1,500W-2,000W mercury lamps

Covering a wide range of applications including golf ranges, tennis courts, soccer stadiums, high-ceiling applications such as factories or gymnasiums, parking lots and any other kind of outdoor location. Power consumption is 400W and when used to replace 1,500W-2,000W mercury lamps, could contribute to as much as an 80% cut in electricity usage. IP65 compliant.



PR-DOME-H05 Portable model

The Handy DOME operates on a lithium ion battery and is compact and light weight. IP67 dust/water proof compliant, making it outdoor-ready. Convenient for outdoor work as well as emergency situation lighting.



PR-DOME THUNDER For high-ceiling applications such as factories or gymnasiums

180-degree luminous intensity angle distributes light to a wide area. IP65 dust/water proof, making it durable for outdoor use as well as factories and warehouses with challenging conditions.



PR-DOME SKIRT High-ceiling lighting for supermarkets

Light is distributed not only straight down but to the rim of the structure, resulting in a radiant effect. IP65 dust/water proof, making it durable for outdoor use as well as factories and warehouses with challenging conditions.

PR-DOME 50/80/110

Light Efficiency

134 lm/W

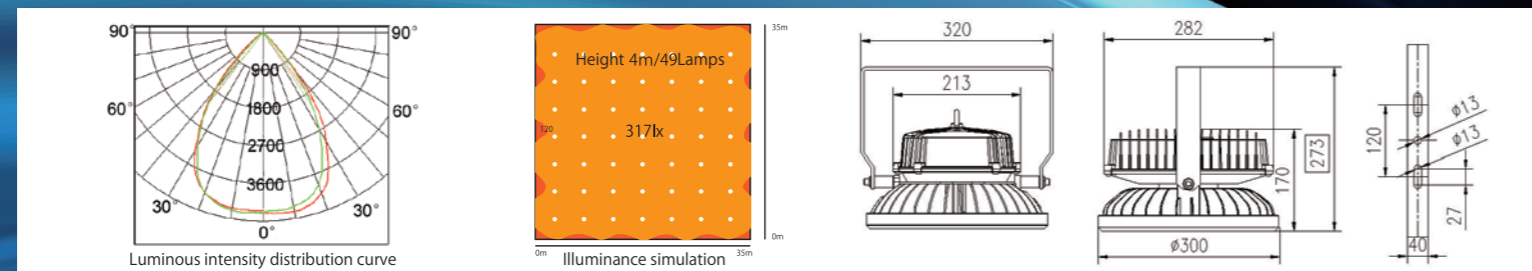


※The pedestal is an option part

PR-DOME-50

250W mercury lamp/100W metal halide lamp equivalent

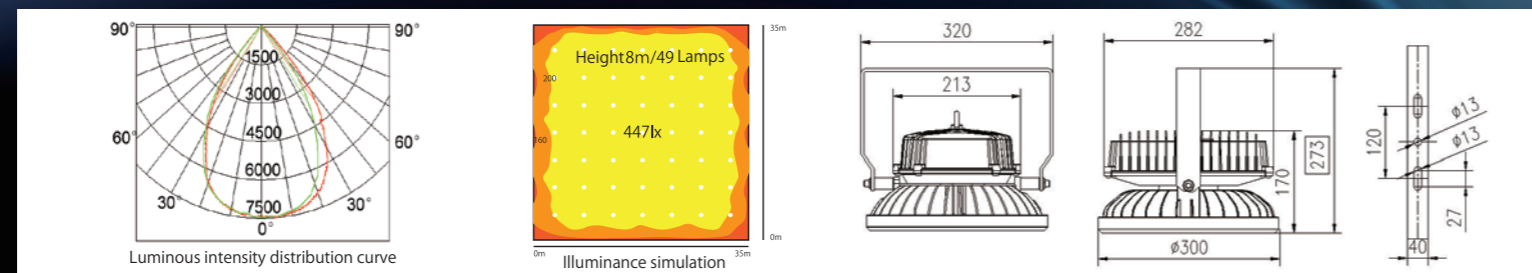
Power **50 W** Total light flux **6,700 lm**



PR-DOME-80

400W mercury lamp/250W metal halide lamp equivalent

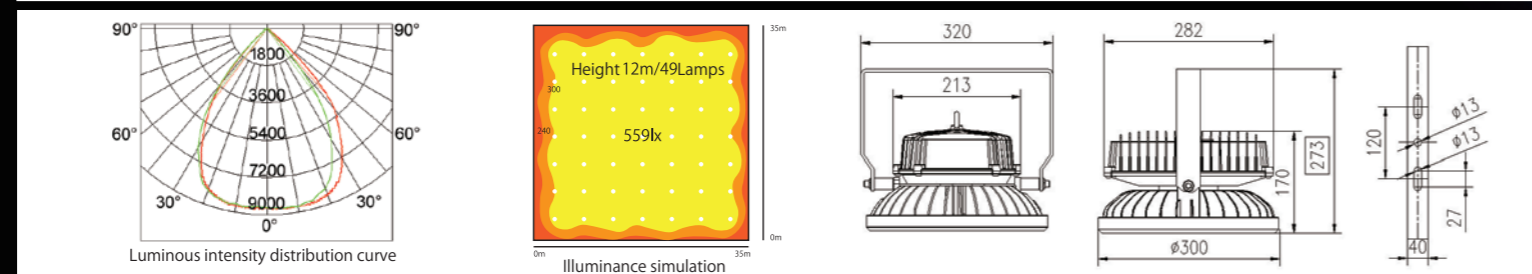
Power **80 W** Total light flux **10,720 lm**



PR-DOME-110

700W mercury lamp/300W metal halide lamp equivalent

Power **110 W** Total light flux **14,740 lm**



MODEL	Type	Size	Weight	Power	Voltage
PR-DOME-50	High-ceiling use LED	φ300mm X H211mm	5.1Kg	50W	AC85 ~ 265V
PR-DOME-80	High-ceiling use LED	φ300mm X H211mm	5.1Kg	80W	AC85 ~ 265V
PR-DOME-110	High-ceiling use LED	φ300mm X H211mm	5.1Kg	110W	AC85 ~ 265V

MODEL	Power factor	Light efficiency	Total light flux	Luminous intensity angle	Color temperature
PR-DOME-50	95%以上	134lm/W	6,700lm	85°	5,000K
PR-DOME-80	95%以上	134lm/W	10,720lm	85°	5,000K
PR-DOME-110	95%以上	134lm/W	14,740lm	85°	5,000K

MODEL	Color rendering properties	Degree of protection	Guaranteed operating temperature	Life
PR-DOME-50	Ra70	IP67	-40°C ~ 50°C	50,000 h
PR-DOME-80	Ra70	IP67	-40°C ~ 50°C	50,000 h
PR-DOME-110	Ra70	IP67	-40°C ~ 50°C	50,000 h

PR-DOME 300/400

Light Efficiency

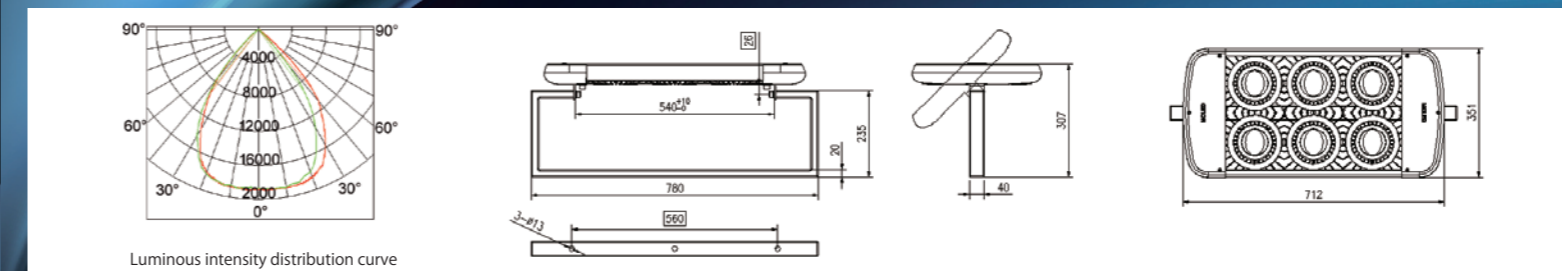
134 lm/W



PR-DOME-300-C

1,000W mercury lamp equivalent

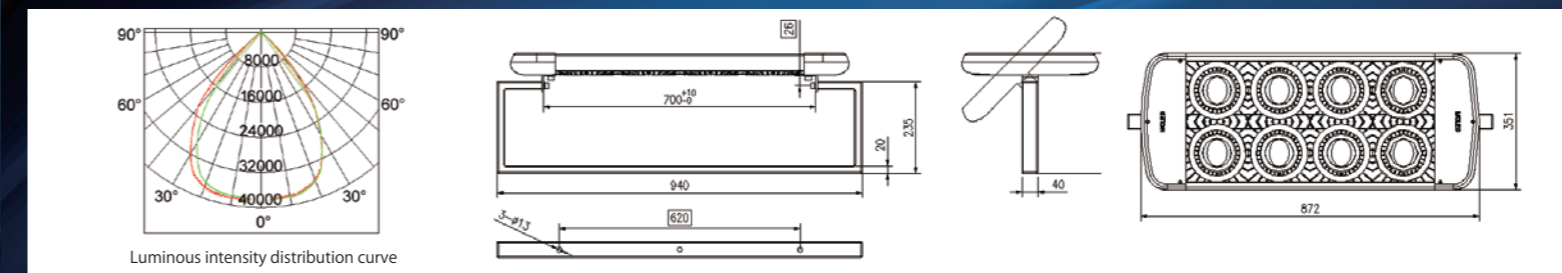
Power **300 W** Total light flux **40,200 lm**



PR-DOME-400-C

1,500W-2,000W mercury lamp equivalent

Power **400 W** Total light flux **53,600 lm**



MODEL	Type	Size	Weight	Power	Voltage
PR-DOME-300-C	High-ceiling use LED	W712mm X D351mm X 56mm	10.9kg	300W	AC85 ~ 265V
PR-DOME-400-C	High-ceiling use LED	W872mm X D351mm X 56mm	12.8kg	400W	AC85 ~ 265V

MODEL	Power factor	Light efficiency	Total light flux	Luminous intensity angle	Color temperature
PR-DOME-300-C	95%以上	134lm/W	40,200lm	85°	5,000K
PR-DOME-400-C	95%以上	134lm/W	53,600lm	85°	5,000K

MODEL	Color rendering properties	Degree of protection	Guaranteed operating temperature	Life
PR-DOME-300-C	Ra70	IP65	-40°C ~ 50°C	50,000h
PR-DOME-400-C	Ra70	IP65	-40°C ~ 50°C	50,000h

(Available Options) Dimmer functionality, Stainless arm parts, Stainless pedestal parts, Milky white lens attachment.



PR-DOME HANDY

Portable handy-type

Four-hour battery charge for four-hour usage

The Handy DOME operates on a lithium ion battery and is compact and light weight. IP67 dust/water proof compliant, making it outdoor-ready. Convenient for outdoor work as well as emergency situation lighting.

MODEL	Type	Size	Weight	Power	Voltage
PR-DOME-H05	Portable-use LED	L260 X W140mm X H104mm	1.2kg	5W	DC12V · 充電器 AC85-265V

MODEL	Power factor	Light efficiency	Total light flux	Luminous intensity angle	Color temperature
PR-DOME-H05	-	100lm/W	500lm	85°	5,000K

MODEL	Color rendering properties	Degree of protection	Guaranteed operating temperature	Life
PR-DOME-H05	Ra75	なし	-25°C ~ 50°C	50,000h

From the easy-on-eyes DOME series comes the ultimate lineup for roadside/curb applications

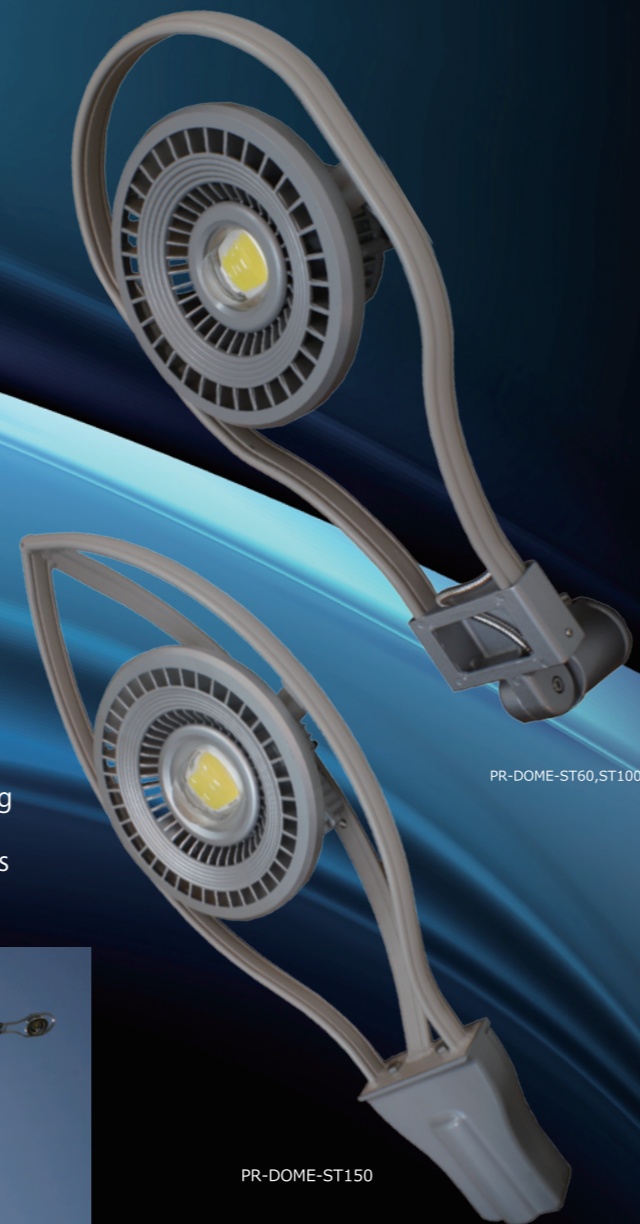
Roadside/curb LED DOME ST

PR-DOME-ST60/PR-DOME-ST100

The DOME-ST is ideal for roadside/curb lighting and outdoor parking lots. Made of die-cast aluminum alloy. IP67 dust/water proof as well as rust/salt damage resistant, making it ideal for ocean front facilities and parks.



PR-DOME-ST150



PR-DOME-ST60,ST100

It embeds a power supply compliant to both 100V/200V and therefore easy to install anywhere. The larger the apace, the longer the lighting cycle, the bigger the savings become (in both electricity billing and maintenance) by upgrading from current conventional lamps. Ultimately, this contributes to lowering carbon emissions and reducing mercury circulation into the environment.

MODEL	Type	Size	Socket size	Weight
PR-DOME-ST60	Roadside/curb LED	830×360×163mm	Φ60 mm	6.5Kg
PR-DOME-ST100	Roadside/curb LED	830×360×163mm	Φ60 mm	6.5Kg
PR-DOME-ST150	Roadside/curb LED	1,100×440×250mm	Φ60 mm	10.8Kg

MODEL	Power	Voltage	Power factor	Light efficiency
PR-DOME-ST60	60W	AC85 ~ 265V	≥0.95	100lm/W
PR-DOME-ST100	100W	AC85 ~ 265V	≥0.95	105lm/W
PR-DOME-ST150	150W	AC85 ~ 265V	≥0.95	108lm/W

MODEL	Total light flux	Luminous intensity angle	Color temperature	Color rendering properties
PR-DOME-ST60	6,000lm	130°	5,000K	Ra75
PR-DOME-ST100	10,500lm	130°	5,000K	Ra75
PR-DOME-ST150	16,200lm	130°	5,000K	Ra75

MODEL	Guaranteed operating temperature	Degree of protection
PR-DOME-ST60	-40°C ~ 60°C	IP67
PR-DOME-ST100	-40°C ~ 60°C	IP67
PR-DOME-ST150	-40°C ~ 60°C	IP67



DOME THUNDER

DOME-THL-100 150 200

This LED edition developed for high-ceiling applications has a 180-degree luminous intensity angle which distributes light to a wide area.

Optimal for large-scale supermarkets and gymnasiums which require high-ceiling lighting.

IP67 dust/water proof, making it durable for outdoor use as well as factories and warehouses with challenging conditions.



DOME SKIRT

DOME-SKL-100 150 200

Light is distributed not only straight down but to the rim of the structure, resulting in a radiant effect.

