



SP4 Sunlight System Product Manual

PARANS—Leading natural sunlight

SP4 Sunlight Systems_V2025-03.01

Parans Sunlight System

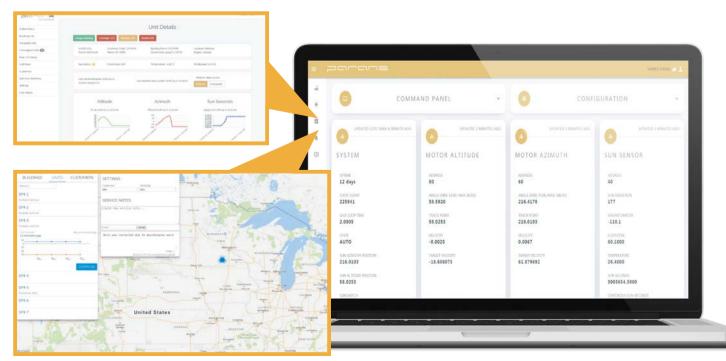
Parans delivers zero-carbon natural sunlight to indoor environments and buildings through industry-leading fiber optic light guiding and solar tracking technology. The system captures and directs natural sunlight into and through the home - deep into the building and away from the windows - and spreads the light in a way that creates an unforgettable experience that improves and enhances the living environment.

- SP4 Series
 Highest quality
 Customizable
 Modular da lecting le
 Option
 Con fa
 - Highest quality genuine natural sunlight;
 - Customizable fiber/cable lengths of up to 300 meters
 - Modular daylighting units: 16-80 units of 100mm diameter; light-collecting lenses and 16-80 core energy fibers
 - Optional full spectrum or visible spectrum natural sunlight;
 - Connects to Parans Cloud for remote installation, debugging,fault diagnosis, and operational data collection.

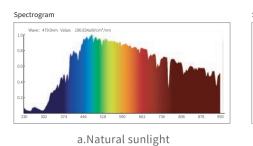
The SP4 series is specifically designed for large commercial enterprises, consisting of five models: SP4-8.2, SP4-12.2, SP4-16.2, SP4-24.2, and SP4-40.2. The SP4-40.2 model features 80 units of 100mm diameter light-collecting lenses, capable of delivering up to 60,000 lumens of visible spectrum natural sunlight and 600 watts of full spectrum natural sunlight per unit. Additionally, it integrates with the Parans Cloud big data operations platform, making it highly suitable for large commercial enterprises.

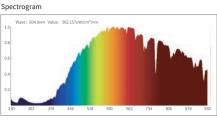


Parans Cloud O&M Platform makes remote installation, debugging, diagnostics, and maintenance services exceptionally simple

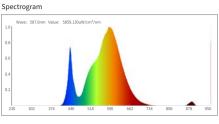


Parans sunlight is entirely derived from natural sunlight, collected and transmitted through Parans' high-fidelity optical system, essentially retaining all spectral components of natural sunlight. It's genuine natural sunlight! This is unparalleled by semiconductor LED sources or any other traditional electrical light sources!





b.Parans sunlight



c.LED light source

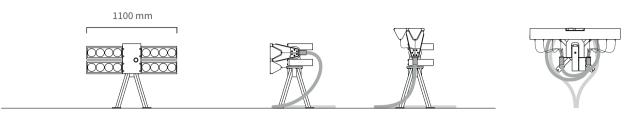
Technical Specifications

| Туре | SP4-8.2 | SP4-12.2 | SP4-16.2 | SP4-24.2 | SP4-40.2 | Memo |
|--|---|---------------|---|---------------|------------------------------|---------------------------|
| L * W * H (mm) | 1100*850*820 | 1100*850*940 | 1950*1000*820 | 1950*1000*840 | 1950*1000*1120 | |
| Weight (Kg) | 60 | 65 | 75 | 85 | 95 | |
| Quantity of fibers/lenses (pcs) | 16 | 24 | 32 | 48 | 80 | |
| Output solar power (W) | 107 ~ 132 | 160 ~ 198 | 213 ~ 265 | 320 ~ 397 | 533 ~ 663 | |
| Output visible flux (lm) | 7200 ~ 10400 | 10800 ~ 15600 | 14400 ~ 20800 | 21600 ~ 31200 | 36000 ~ 52000 | |
| Output wavelength (nm) | | | ss fiber: 150nm ~ 2000 stic fiber: 425nm ~ 700 | | | Selectable spectrum range |
| Fiber core diameter and numerical aperture | glass fiber:OD = 1.2mm, NA = 0.48 plastic fiber:OD = 2.0mm, NA = 0.50 | | | | | |
| Max. fiber length (m) | glass fiber: 500m plastic fiber: 50m | | | | Attenuation loss confined | |
| Minimum bend radius of the fiber (mm) | glass fiber: 180mm plastic fiber: 20mm | | | | | |
| Power supply & consumption | AC 110 ~ 250V, 50 ~ 60Hz; 0 ~ 12W | | | | | |
| Operating temperature (°C) | -40 ~ +60 | | | | | |
| Relative humidity (%RH) | 0~85%RH | | | | | |
| Material | Aluminum, Steel, Glass, PMMA | | | | | |
| IP rating(electronics) | IP66 | | | | | |
| Connection (Optional) | Network interface (WiFI/5G/4G/GPRS) | | | | | |
| Debugging and maintenance | Al Big Data Maintenance Platform | | | | Parans Cloud | |
| Sunlight luminaires | Point light, Zoom light, Ceiling light, Flat pannel light, Hybrid light, etc. | | | | Accepts custom design | |

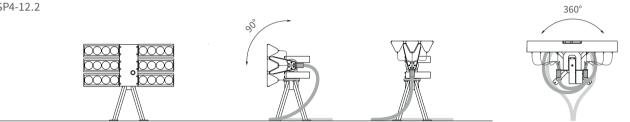
*All values are based on: 1) Standard 30 meters fiber cable ; 2) Solar illuminance of 100000 Lux, sunny day without smog.

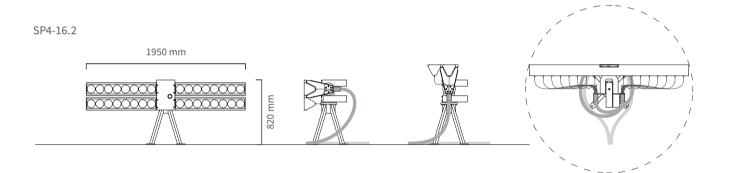
1.Sunlight Collectors

SP4-8.2

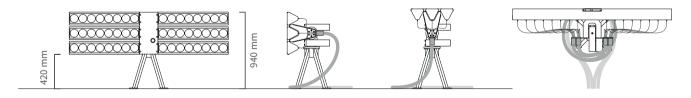


SP4-12.2

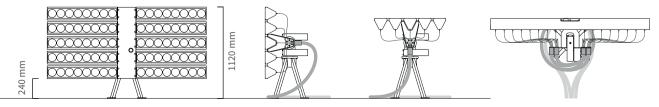




SP4-24.2



SP4-40.2



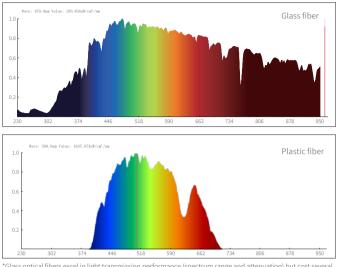
2.Energy Optical Fibers

2.1 Glass Optical Fiber & Plastic Optical Fiber

Fiber Optic Technical Specifications

| Characteristics | Glass fibers | Plastic fibers |
|--------------------------------|----------------|--------------------|
| Fiber structure | Step index | Step index |
| Numerical aperture | 0.48+/-0.02 | 0.50+/-0.02 |
| Core material | Glass | PMMA |
| Core OD (mm) | 1.2 | 2 |
| Attenuation Loss | 0.01dB/m@600nm | 0.1dB/m@600nm |
| Bending radius (mm) | >180 | >20 |
| Operating temperature (°C) | -65 to +140 | -50 to +70 |
| Output Light spectrum band(nm) | 150 to 3000 | 425 to 700 |
| Cost | High | Low |
| Cladding layer | Hard polymer | N/A |
| Standard buffer | Tefzel | Black polyethylene |

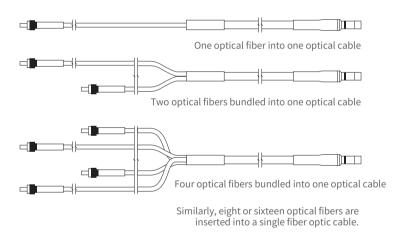
Comparison of Spectral Characteristics



*Glass optical fibers excel in light transmission performance (spectrum range and attenuation) but cost several times more than plastic fibers. Specifically, in short-range visible light applications, plastic fibers offer a better cost-to-performance ratio.

Fiber Optic Connector

• Fiber Optic Jumper/Transmission Network



Inlet Fiber Connector: SMA905 (Industry Standard)



• Output Fiber Connector: 2-core / 4-core / 8-core / 16-core fiber optic connection (Parans standard)



3.Sunlight Luminaires

3.1Floor-mounted Sunlight Projector

| Luminaire Type | Sunlight Projector | Remarks |
|--------------------------------|---------------------------|-----------------------------|
| Model | LDTG01 | |
| Size (mm) | 545~1600 | |
| Weight (Kg) | 2 | |
| Material | Aluminum/Plastic | |
| Central axis diameter (mm) | φ15/25 | |
| Storage height (mm) | 60 | |
| Connected optical fibers (pcs) | 8,16 | |
| Light output per fiber (lm) | 450 ~ 650 | Glass/Plastic Fiber |
| Light power per fiber (W) | 10 | Glass Fiber / Full-spectrum |
| Divergent angle | 15~60° | |
| Tilt | 60° | |
| Rotate | 360° | |
| Protection rating | IP44 | |
| Mounting | Floor-standing and mobile | |
| Color | Black | |



*All values are based on: 1) Standard 30 meters fiber cable ; 2) Solar illuminance of 100000 Lux, sunny day without smog.



3.2 Zoom Sunlight Projector



| Luminaire Type | Zoom Sunlight Projector | Remarks |
|--------------------------------|--------------------------------------|-----------------------------|
| Model | ZDSL-100 | |
| Size (mm) | ф63*150 | |
| Weight (Kg) | 0.3 | |
| Material | Aluminum + PMMA | |
| Embedding Depth (mm) | 250 | |
| Connected optical fibers (pcs) | 2~8 | |
| Light output per fiber (lm) | 450 ~ 650 | Glass / Plastic Fiber |
| Light power per fiber (W) | 10 | Glass Fiber / full-spectrum |
| Tilt | -60 ~ +60° | |
| Rotate | 360° | |
| Protection rating | IP44 | |
| Mounting | Track/Surface Mounted with Screws | |
| Ceiling type | Suspended Ceiling | |
| Color | White/Black | |

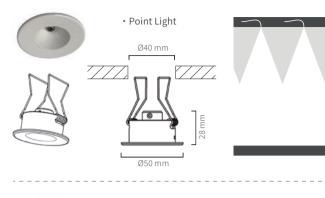
*All values are based on:

1) Standard 30 meters fiber cable ; 2) Solar illuminance of 100000 Lux, sunny day without smog.





3.3 Point Light-I



• Ceiling Point Light

Ø40 mm

Ø50 mm

| Luminaire Type | Point | Ceiling | Memo |
|--------------------------------|--------------------------|-----------------------|----------------------------------|
| Model | FRSL01 | VRSL01 | |
| Size (mm) | φ50 * 28 | φ50 * 28 | |
| Weight (Kg) | < 0.05 | 0.05 | |
| Material | Aluminum | Aluminum | |
| Embedding Depth(mm) | 210 | 210 | |
| Connected optical fibers (pcs) | 1~4 | 1~4 | |
| Light output per fiber (lm) | 450 ~ 650 | 450 ~ 650 | Glass/Plastic Fiber |
| Light power per fiber (W) | 10 | 10 | Glass Fiber/full- spectrum |
| Divergent angle | 58° | 58° | Depends on numerical aperture |
| Tilt | N/A | 30° | |
| Rotate | N/A | 360° | |
| Mounting hole (mm) | 40 | 40 | |
| Mounting | Recessed, with spring | Recessed, with spring | |
| Ceiling type | Suspended Ceiling | Suspended Ceiling | |
| | | | |

*All values are based on: 1) Standard 30 meters fiber cable ; 2) Solar illuminance of 100000 Lux, sunny day without smog.

3.2 Point Light-II

360

7355°5

7355°5

Luminaire Type Pure Sunlight Hybrid light Memo • Pure Point Light Model PRBL01 PRBL02 HRBL01 HRBL02 Vertical fiber optic link • Lateral fiber optic link Size (mm) 110*110*65 240*120*65 Weight (Kg) 0.5 0.95 Material Aluminum Aluminum Embedding Depth 250 65 250 65 (mm) Fiber optic input Vertical Horizontal Vertical Horizontal direction Connected optical 2~4 2~4 fibers (pcs) Light output per Glass/ 450 ~ 650 450 ~ 650 Plastic Fiber fiber (lm) 60 Glass Fiber/ Light power per 10 10 7355°5 7355°5 fiber (W) full-spectrum LED lighting efficacy (lm/W) N/A 755 • Hybrid Point Light LED power (W) N/A 12 Vertical fiber optic link • Lateral fiber optic link 🔻 Divergent angle 58° 90° 0 Tilt 60° 60° 355° Rotate 355° IP20 Protection rating IP20 Mounting hole 100 2 x 100~110 (mm) Recessed, Recessed, Mounting with spring with spring Ceiling type Suspended Ceiling Suspended Ceiling

Color

*When natural sunlight is low, LEDs compensate. Manual or smart adjustment with DALI/DSI drivers for intelligent light supplementation.

7355°5

7355°5

*All values are based on: 1) Standard 30 meters fiber cable ; 2) Solar illuminance of 100000 Lux, sunny day without smog.

White/grizzly

White/grizzly

3.3 Zoom Point Light

1

focus light





H:30mn





| Luminaire Type | Zoom Point Light | | Мето |
|--------------------------------|--------------------------|--------------------------|-------------------------------|
| Model | ZCSL01 | ZCSL02 | |
| Size (mm) | φ75*30 | ф90*40 | |
| Weight (Kg) | 0.12 | 0.12 | |
| Material | Aluminum | Aluminum | |
| Embedding Depth (mm) | 250 | 250 | |
| Connected optical fibers (pcs) | 2~4 | 2~4 | |
| Light output per fiber (lm) | 450 ~ 650 | 450 ~ 650 | Glass/Plastic Fiber |
| Light power per fiber (W) | 10 | 10 | Glass Fiber/full- spectrum |
| Divergent angle | 15 ~ 60° | 15~60° | |
| Tilt | 60° | 60° | |
| Rotate | 360° | 360° | |
| Protection rating | IP44 | IP44 | |
| Mounting hole (mm) | 55 ~ 65 | 72~80 | |
| Mounting | Recessed, with spring | Recessed, with spring | |
| Ceiling type | Suspended Ceiling | Suspended Ceiling | |
| Color | White/Black | White/Black | |

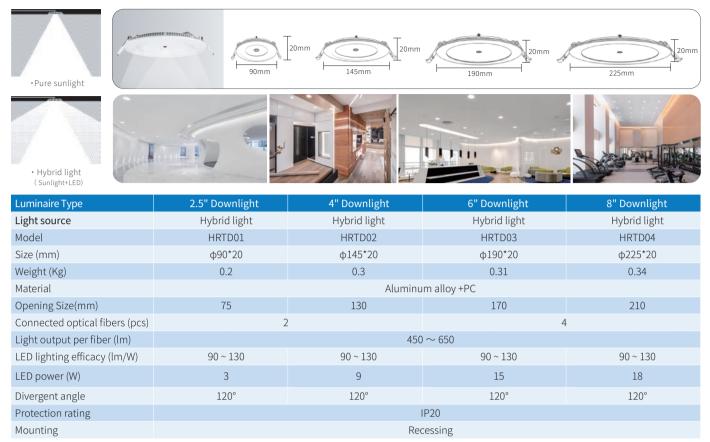
*All values are based on: 1) Standard 30 meters fiber cable ; 2) Solar illuminance of 100000 Lux, sunny day without smog.

| • Natural Sunlight | 100mm | 30mm 30mm | 30mm | 230mm |
|---|----------------|--------------|-------------------|------------------|
| • Mixed Light Sources (Natural Sunlight+LED) | Badroom Light | ing | Bathroom Lighting | Kitchen tighting |
| Luminaire Type | 2.5" Downlight | 4" Downlight | 6" Downlight | 8" Downlight |
| Light source | Hybrid light | Hybrid light | Hybrid light | Hybrid light |
| Model | HRD01 | HRD02 | HRD03 | HRD04 |
| Size (mm) | ф100*30 | φ145*30 | ф180*30 | φ230*30 |
| Weight (Kg) | 0.2 | 0.3 | 0.4 | 0.5 |
| Material | | Aluminu | m alloy +PC | |
| Opening Size(mm) | 75 ~ 85 | 110~135 | 146 ~ 165 | 190~210 |
| Connected optical fibers (pcs) | 2 4 | | | |
| Light output per fiber (lm) | | 450 | \sim 650 | |
| LED lighting efficacy (lm/W) | 90~130 | 90~130 | 90~130 | 90 ~ 130 |
| LED power (W) | 7 | 15 | 24 | 36 |
| Divergent angle | 120° | 120° | 120° | 120° |
| Protection rating | IP20 | | | |
| Mounting | Recessing | | | |

*All values are based on: 1) Standard 30 meters fiber cable ; 2) Solar illuminance of 100000 Lux, sunny day without smog.

3.6 Recessed Downlight Serie-I

3.7 Recessed Downlight Series-II



*All values are based on: 1) Standard 30 meters fiber cable ; 2) Solar illuminance of 100000 Lux, sunny day without smog.

3.8 Ceiling-mount Cylinder Light

| | | | n | |
|--|--------------------|--------------|--------------|--------------|
| •Pure sunlight • Hybrid light (Sunlight+LED) | | | | |
| Luminaire Type | 7w | 12w | 18w | 24w |
| Light source | Hybrid light | Hybrid light | Hybrid light | Hybrid light |
| Model | HRCD01 | HRCD02 | HRCD03 | HRCD04 |
| Size (mm) | ф100*35 | φ135*35 | φ175*35 | φ230*35 |
| Weight (Kg) | 0.16 | 0.23 | 0.35 | 0.55 |
| Material | Aluminum alloy +PC | | | |
| Connected optical fibers (pcs) | 2~4 4~8 | | | |
| Light output per fiber (lm) | $450 \sim 650$ | | | |
| LED lighting efficacy (lm/W) | 90~130 | 90~130 | 90~130 | 90~130 |
| LED power (W) | 7 | 12 | 18 | 24 |
| Divergent angle | 120° | 120° | 120° | 120° |
| Protection rating | IP20 | | | |
| Mounting | surface mounting | | | |

*All values are based on: 1) Standard 30 meters fiber cable ; 2) Solar illuminance of 100000 Lux, sunny day without smog.

3.11 Anti-Glare Recessed Flat Panel Light



*When natural sunlight is low, LEDs compensate. Manual or smart adjustment with DALI/DSI drivers for intelligent light supplementation.

| Luminaire Type | Hybrid light | Мето |
|-----------------------------------|----------------------------|----------------------|
| Model | GFPS-H02 | Anti-glare |
| Size (mm) | 595*595*110 mm | |
| Weight (Kg) | 7 | |
| Material | PMMA, PC, Aluminum | |
| Embedding Depth (mm) | 300 | Including connectors |
| Connected optical fibers (pcs) | 4~8 | |
| Light output per fiber (lm) | 450 ~ 650 | Glass/Plastic Fiber |
| Full spectrum power per fiber (W) | 7~10 | Glass Fiber |
| LED light output (lm) | 990 | |
| LED Power (W) | 15 | |
| Mounting | Recessed, replaces grating | |
| Ceiling type | Suspended Ceiling | |

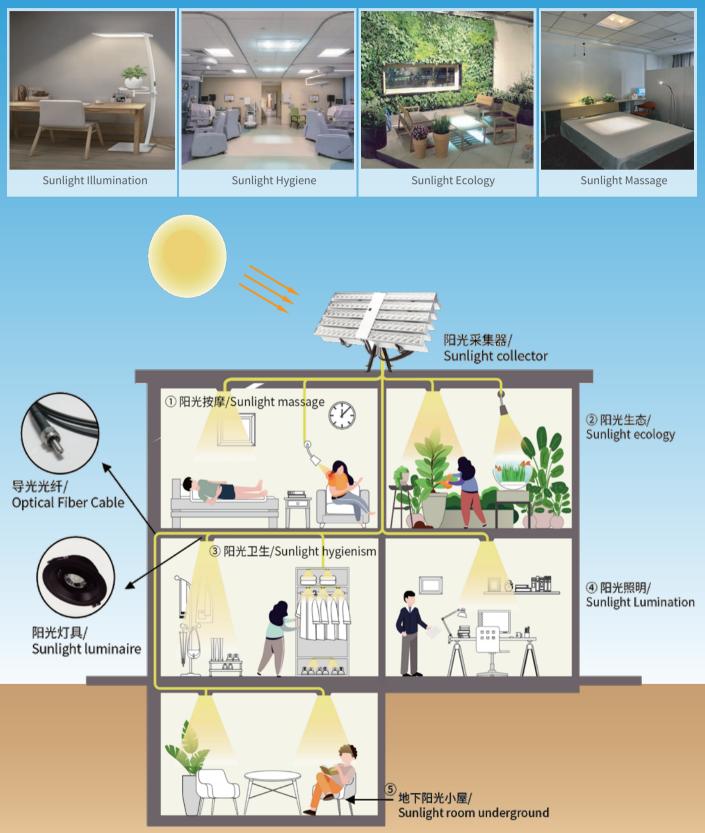
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Application Scenarios and Cases

1、 Application Scenarios

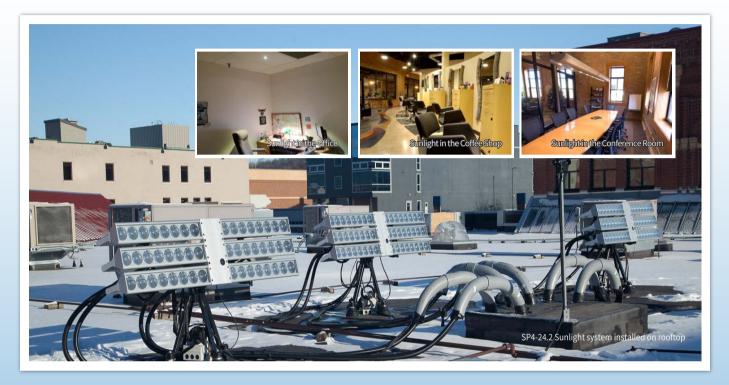
Parans Sunroom consists of four parts: Sunlight Illumination, Sunlight Hygiene, Sunlight Ecology, Sunlight Massage.



2、Application Cases

2.1 Minnesota Mankato Place Sunlight Project

Mankato Place in the United States installed three Parans SP4-24.2 natural sunlight systems, along with 48-core energy fiber optics and 20 sunlight fixtures. This brought 70,000 lumens of visible light/1400 watts full-spectrum natural sunlight into various spaces such as offices, meeting rooms, restaurants, and entertainment halls. The system not only achieved carbon-neutral green lighting but also provided an exceptional experience for employees and customers, turning it into a popular local attraction.





AR . POOL . DAR

Mankato Commercial Plaza

Combined Lighting Layout with LED and Sunlight Integration

The project employs a dual lighting approach, combining LED general illumination with focused sunlight. Basic lighting is provided by a grid light with three standard LED tubes, while focused lighting comes from a Parans sunlight point source spotlight. Parans natural sunlight is projected at a 58° angle onto employees' desks and chairs, promoting health and happiness during efficient work

de Al ni

2.2 UJVN Ltd Headquarters Sunlight Project, North Akhand, India



UJVN, India's pioneering hydroelectric company, dedicated to sustainable energy, faced challenges at its 36-story headquarters with numerous rooms lacking sunlight. This led to a proportion of employees experiencing low morale and occasional cases of depression. To enhance the work environment, the company purchased and installed 5 SP4-40.2 Parans natural sunlight systems, featuring a total of 400-core energy fiber optics. This setup delivers 250,000 lumens of visible light/3000 watts full-spectrum natural sunlight, covering an area of approximately 1000 square meters and saving 20,000 kWh of lighting electricity annually. In addition, employees responded positively to the warm and comfortable ambiance created by sunlight, resulting in increased work efficiency and a notably positive shift in mood, effectively mitigating depression.

This project at the UJVN Ltd headquarters in North Akhand, India, utilized intelligent hybrid light fixtures. In situations of insufficient or no sunlight, the LED light sources automatically activate to supplement the missing sunlight, ensuring consistent indoor brightness. This innovative approach enhances lighting efficiency and maintains a stable illumination level, contributing to an improved and sustainable light-ing solution for the office building



2.3 The Rijnlands Tunnel Sunlight Project in the Netherlands



tanna Tanna Tanna

2 S 2 S 2 S 3 S 3

The Rijnlands Tunnel Lighting Project in the Netherlands has successfully completed, with an investment exceeding 1.69 million euros, installing a total of 80 sets of SP4-40.2 Palance natural sunlight illumination systems. The project has been completed smoothly and passed the acceptance inspection.

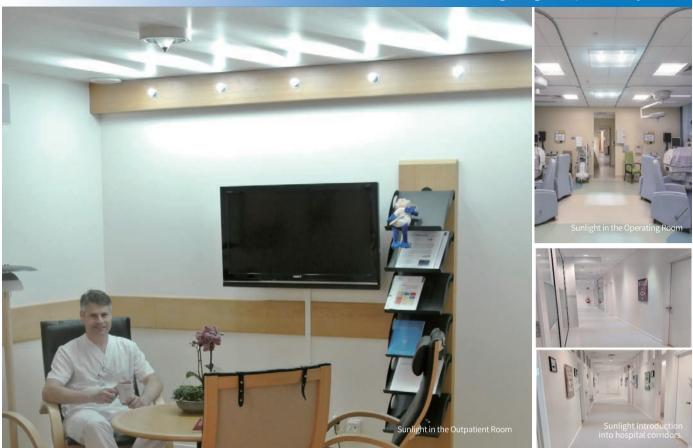
Both entrances of the Rijnlands Tunnel in the Netherlands are illuminated by Parans natural sunlight. Utilizing nearly a hundred Parans sunlight systems in an unprecedented manner, natural sunlight is introduced into the tunnel, minimizing the risk of a 'black hole' effect and ensuring optimal safety for road traffic. Notably, the Rijnlands Tunnel project received the Innovative Design Challenge Award in a nationwide competition in the Netherlands, largely due to the Parans sunlight system's ability to efficiently transport natural sunlight into the deep areas of the tunnel in a carbon-neutral way.

- WINE CARLE AVE -





2.4 Helsingborg Hospital Project



Helsingborg Hospital enhanced the ambiance in outpatient rooms, operating theaters, and corridors by installing a SP4-40.2 and SP4-24.2 Parans real natural sunlight rays Sunlight System. Doctors and patients now experience "We appreciate the sunlight we get through the Parans system", says Lennart Sandhall, Chief Physician, Helsingborg Hopsital, Sweden, "It gives us a clear connection to the outside. If the sun is shining, we are almost able to set the clock according to how the light is shifting."



2.5 Qingdao Polar Ocean World Seal Pavilion Project



Sunlight is the fundamental condition for the survival of all things in the world. Everything grows relying on sunlight. As an ecological and cyclical biosphere, an aquarium cannot ensure the health and vitality of organisms without sunlight.

Compared to typical artificial lighting sources, sunlight is considered to have the highest light levels required for biological functionality. Sunlight serves as an excellent disinfectant, capable of eliminating many pathogenic microorganisms, including bacteria, fungi, rickettsiae, viruses, and algae, without pollution or side effects. The ultraviolet and infrared segments in sunlight also contribute to sterilizing and disinfecting the skin and fur of furry creatures, providing essential nutrients that play a crucial role in their health. Out of love for marine animals, the Polar Ocean World has chosen to use the Parans sunlight system to provide natural sunlight for them.

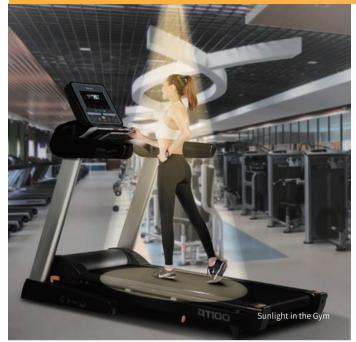
Parans has designed a natural sunlight spectrum for the Polar Ocean World. In this spectrum, ultraviolet light prevents various skin diseases in seals. Specific formula lamps are used as the light source, targeting the skin through the photoelectric, biological, and photochemical effects of light quantum beams of specific wavelengths, reaching the mid-shallow layer of the dermis through the skin. The mechanism for treating skin diseases involves inducing cell apoptosis, particularly immune T cell apoptosis. Through illumination, it significantly inhibits the activity of anti-gen-presenting cells such as epidermal Langerhans cells, reducing epidermal inflammatory reactions. Simultaneously, it enhances the metabolic function and immunity of organisms, achieving therapeutic goals.

Natural light is projected into the seal pool, forming an intense light spot of approximately 15 square meters with a visible light intensity of about 3000 lux, along with rich ultraviolet and infrared light. The project utilizes approximately 10 meters of fiber optic cables to install the SP4-40.2 (80 light points) Parans sunlight system on the museum roof to introduce sunlight.

The Parans sunlight system can offer its unique value solution without being influenced by any structural design of the building, bringing sunlight indoors to enhance indoor comfort and provide ample indoor sunlight. Parans Sunlight, the best light for humanity!



2.6 IMPULSE Fitness Club Ecological Environment Improvement Project





IMSPULSE Fitness Club recently installed the Parans sunlight system. By projecting Parans natural sunlight onto the treadmills in the gym, people can enjoy outdoor natural sunlight while running. Additionally, by projecting Parans natural sunlight onto the plants inside the gym, the air quality has significantly improved through the plants' photosynthesis, removing harmful gases and promoting the generation of fresh air and negative ions.

2.7 Learn & Laugh Kindergarten Sunlight Project in Sydney, Australia

In a kindergarten in Sydney, Australia, natural light is very limited due to the surrounding large office and residential buildings, a common occurrence in big cities. Children play and learn here, spending crucial moments of their day. The challenge was to meet legislative requirements for daylight levels. To introduce natural light and meet daylight requirements, the client chose to install the Parans sunlight system. The contractor was approved to use the Parans system to achieve the required daylight levels. With around 2,500 hours of sunlight annually in Sydney, all these hours of sunshine can be harnessed, allowing natural light to fill the rooms.

After the installation of the Parans natural sunlight system, sunlight penetrates the building. Children bask in natural sunlight, leading to a significant improvement in their learning interest and efficiency, earning high praise from parents.







2.8 Auckland Elderly Apartment Sunbathing Project, New Zealand



New Market Senior Apartments in New Zealand consist of 80 senior units/beds, each accommodating one elderly individual or a couple. To allow the elderly to sunbathe in bed on sunny days, the client incorporated two SP4-40.2 Parans natural sunlight systems in the design. Each bed is equipped with a sunlight fixture connected to two fiber optic strands, projecting 2000 lumens of visible light/20 watts of full-spectrum natural sunlight energy into a 1-square-meter area, providing sunlight massage for the elderly. As a result, seniors can enjoy sunlight massage (sunbathing) without leaving their homes.

Sunbathing has various health benefits, such as boosting the immune system and reducing the risk of colds. From the perspective of traditional Chinese medicine, improving health involves getting more sunlight to generate clear Yang energy in the body, ultimately achieving the effects of nourishing Yang energy and promoting positive Qi. Adequate Yang energy is essential for the normal functioning of internal organs, enhancing the body's ability to resist diseases. Regular sunbathing helps strengthen the body, improve overall health, and supplement Vitamin D, effectively reducing the risk of common respiratory diseases and flu viruses. For elderly individuals who may have mobility challenges or cannot leave their beds, 'sunbathing' becomes an unattainable activity. Parans sunlight collection and transmission technology precisely addresses this challenge, bringing sunshine into the lives of the elderly in their later years!

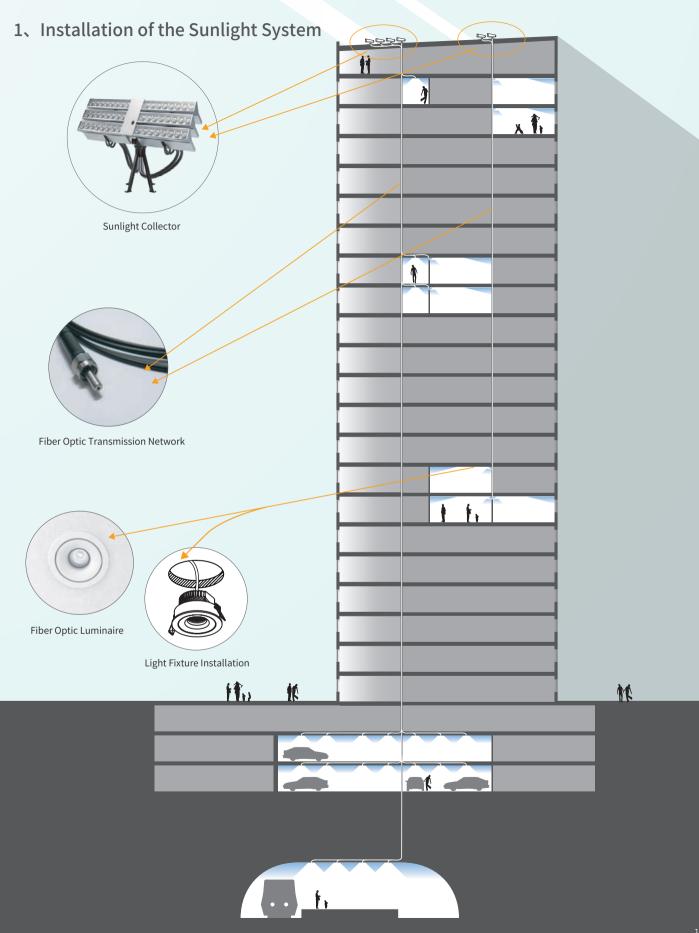




A hotel located in the Silicon Valley of India chose 2 SP4-40.2 Parans sunlight systems to provide natural sunlight for 50 landscape plants, promoting photosynthesis in plants. This process results in the daily production of 5,000 liters of oxygen, a daily reduction of 5,000 liters of carbon dioxide, and the removal of over a hundred harmful gases. This significantly improves and enhances the air quality within the hotel, transforming it into a completely carbon-neutral ecological balance system. The hotel not only sustains its oxygen needs but also produces a surplus, making it a truly self-sufficient oxygen-rich environment.

Sunshine Inn Project, Silicon Valley, India

Installation of the Parans Natural Sunlight System

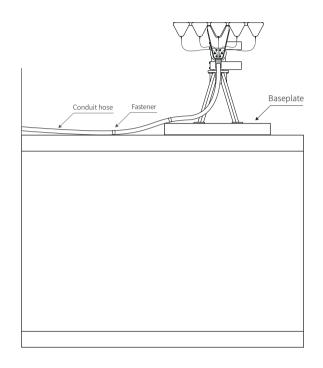


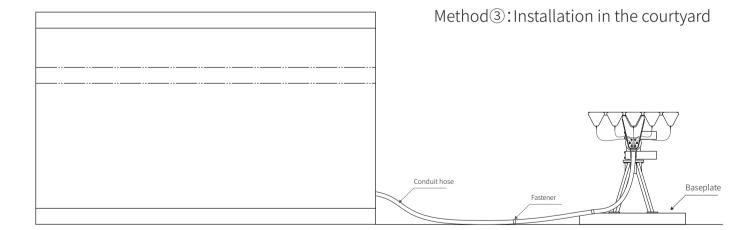
2. Installation Method of SP4 Series Daylight Collector (Place in Play)

Architectural reserved conduit hose Fastener Baseplate Baseplate

Method ①: Roof installation

Method 2: Install on the balcony





Note:

The SP4 series daylight collector has three installation methods, making it easy to plug and play. The first method is installing on the roof, the second is on the balcony, and the third is in the courtyard. To avoid damaging the roof and cope with harsh weather conditions, a transition base should be placed before installation, and the daylight collector should be fixed on it. The dimensions and thickness of the transition base should be adjusted based on actual conditions to ensure a secure and safe installation. Here is a simple diagram. Please refer to the installation instructions for detailed installation procedures.

Parans sunlight systems have been widely applied in various scenarios, including education, healthcare, elderly care, new energy, agriculture, commercial offices, residential areas, public buildings, underground facilities/garages, and more. To date, over 300 top-notch application cases have been successfully implemented globally.



Parans—LEADING SUNLIGHT



PARANS – LEADING NATURAL SUNLIGHT

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