SUNLIGHT IN WELLNESS WINS



Helios • PLT6 • SP4 Full Range

Parans Natural Sunlight System

Product Catalogue

PARANS NATURAL SUNLIGHT SYSTEM • PRODUCT CATALOGUE

2026 Comprehensive Edition V1.0

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SUNLIGHT IN WELLNESS WINS

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PARANS SUNLIGHT SYSTEM

Parans Natural Sunlight System at a Glance

Parans delivers zero-carbon natural sunlight to interiors and buildings through industry-leading fiber-optic light guiding and solar tracking technology. The system captures sunlight and guides it into and through the house — deep inside the building, far from windows — and spreads the light in a memorable way, improving and enriching the living environment.

Natural Sunlight, the Health Crisis and the Parans Solution

Modern lifestyles mean more time indoors and a serious lack of outdoor natural light, making circadian disruption, vitamin D deficiency, myopia, low mood, osteoporosis and chronic disease increasingly common. Natural sunlight has a full spectrum from ultraviolet (UV) through visible light to infrared (IR) and plays an irreplaceable role in circadian rhythm, hormone secretion, immune regulation and metabolism;

The Parans system uses innovative fiber-optic collection and transmission to bring full-spectrum outdoor sunlight deep indoors, with precise projection and high-fidelity reproduction. Basements, north-facing rooms and offices all receive high-quality natural light, helping maintain circadian rhythm, promote vitamin D synthesis, improve mood and support bone and immune health.

From Collection and Transmission to Projection

FROM COLLECTION TO PROJECTION

1 Collect



Sunlight Collector

2 Transmit



Energy Fiber

3 Project



Sunlight Luminaire

10+ Years
Dedicated to natural-light transmission

50+
Countries & regions with sales and service

500+
Global application cases

2000+ sets
Annual capacity

16
Patent applications, incl. 2 invention patents

Four Core Values

Highest Light Quality
True natural sunlight, not a simulated spectrum

Zero-Carbon Green Lighting
No extra energy use — what you capture is what you get

Full-Spectrum Options
Selectable UV / visible / IR spectrum for function and health

Cloud Platform / DIY Modes
Covers commercial and home scenarios



Pursuing Extreme Sunlight, Sustaining Mankind

Crafted around the unity of thought, technology and product, with the quality policy "product quality reflects personal character" built into every manufacturing detail.

PAIN POINTS & VALUE

Industry Pain Points & the Parans Value

01

User pain point

Poor Living Environment

In commercial offices and homes, many rooms get too little or no sunlight, causing poor air quality, harmful gases, insufficient oxygen, bacterial and viral growth and low visual comfort — very harmful to occupants' health and work motivation.

02

User pain point

Excessive Carbon Emissions

Office lighting relies on artificial light sources with high power consumption, which runs against the sustainable direction of green, low-carbon buildings. The EU eco-building standard for daily carbon emission is < 6 g/m², which conventional lighting struggles to meet.

The Parans Solution & Real-World Results

Parans uses fiber-optic light guiding and solar tracking to bring full-spectrum outdoor sunlight deep into buildings — offering zero-carbon natural sunlight for offices, hospitals, care homes, schools, homes and underground spaces while cutting lighting energy use. Measured or design results from selected projects:

80%+
Tunnel energy saving
Rijnlands Tunnel (NL), 80 sets SP4-40.2

40,000 kWh
Annual energy saving
CRCC HQ (China): 11 PLT6 replace 11 kW tubes

6 years
Payback period
CRCC HQ building project

10,000 kWh
Annual electricity saved
UJVN HQ (India), 5 sets SP4-40.2

Applications

500+ successful cases built — a global leader

Commercial · Hospital · Care home · School · Daycare · Villa · Public · Basement · Farming

Three Series • High, Mid & Entry

SP4

High-end • Large institutions

For high-end homes (e.g. villas) and commercial institutions such as care homes, hospitals, swimming pools, schools and eco-buildings.

PLT6

Mid-range • Low-cost solution

A compact, low-cost sunlight system for mid-to-high-end building lighting; suits small and mid-sized institutions and villas.

Helios

Entry • Home DIY

A mini DIY natural sunlight system for homes: place and use, no installation or maintenance — serving the mass household market.

COLLECTOR OVERVIEW

Collector Series Overview

Three collector series — complementary by building size, installation and budget



SP4 Series

Large institutions

Developed for large commercial institutions. Modular collector with 16–80 collection lenses; connects to the Parans cloud big-data O&M platform for remote installation, commissioning and fault diagnosis.

- 16–80-core energy fiber, up to 500 m (Glass optical fiber)
- Full-spectrum output 110–640 W, visible light 6,800–49,000 lm
- IP66 protection, AI big-data O&M (Parans Cloud)
- 100% real sunlight, not simulated lighting

For: commercial complexes / hospitals / tunnels / venues



PLT6 Series

Small & mid-size

A flagship for small institutions, villas and homes. The transparent dome allows garden-style installation and sends real sunlight to windowless basements, studies and bathrooms.

- Transparent dome design, compatible with garden aesthetics
- Cylindrical base, clean look, blends into facades
- Custom brackets and shapes to blend into facades
- 100% real sunlight, not simulated lighting

For: villa basements / windowless rooms / courtyards



Helios Series

Home DIY

Built on "compact, light, smart, DIY": 390×560×770 mm and only 20 kg, easy for one person to carry and install; ready to use, with no roof access or complex construction.

- Dual-axis active GPS + light-sensing tracking, accuracy < 0.1°
- 16-core quartz glass fiber, full-spectrum power 110–128 W
- IP65 protection, DIY plug-and-play, maintenance-free
- 100% real sunlight, not simulated lighting

For: apartments / high-rises / rentals / quick deployment

PARANS SP4 SERIES • COMMERCIAL

SP4 Series Natural Sunlight System

Large institutions For: commercial complexes / hospitals / tunnels / venues



The SP4 series is developed for large commercial institutions and comes in five models: SP4-8.2, SP4-12.2, SP4-16.2, SP4-24.2 and SP4-40.2. The SP4-40.2 carries 80 collection lenses of 100 mm diameter and delivers up to about 49,000 lumens of visible-spectrum natural sunlight or 640 W of full-spectrum sunlight per unit. It connects to the Parans cloud big-data O&M platform for remote installation, commissioning and fault diagnosis, making it ideal for large commercial institutions.

Highest Light Quality
True natural sunlight

Custom Fiber Cable Length
Custom-made; glass fiber up to 500 m (limited by attenuation)

Modular Collector
16–80 lenses of 100 mm diameter, matched to 16–80-core energy fiber

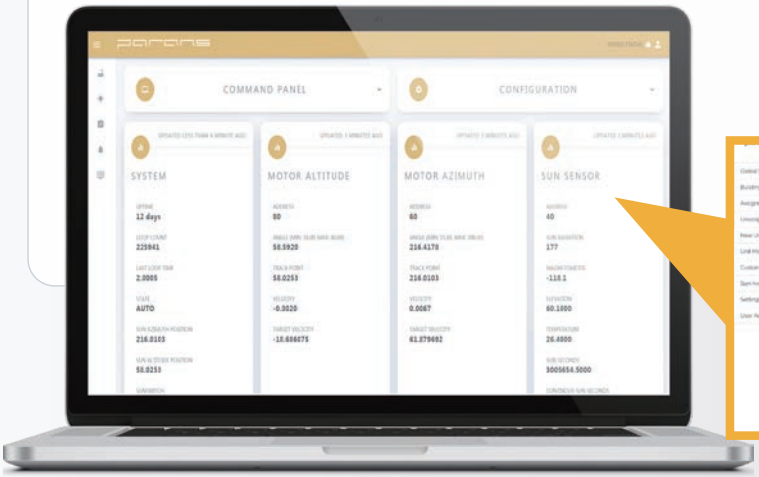
Full or Visible Spectrum
Choose full-spectrum or visible-only sunlight by space function

Cloud Connectivity
Remote installation, commissioning, fault diagnosis and O&M data collection; IP66

SP4 Series Models



SP4-8.2	SP4-12.2	SP4-16.2	SP4-24.2	SP4-40.2
16-core • 110–128 W	24-core • 165–192 W	32-core • 220–256 W	48-core • 330–384 W	80-core • 550–640 W





Parans Cloud • Big-Data O&M Platform

An AI big-data sensing and O&M platform with WiFi / 5G / 4G / GPRS connectivity, making remote installation, commissioning, diagnosis and maintenance exceptionally easy.

PARANS PLT6

PLT6 Natural Sunlight System

Small & mid-size

For: villa basements / windowless rooms / courtyards



PLT6 is built for small and mid-sized institutions, villas and home décor scenarios, and is the latest model Parans has designed for the residential market, carrying on the quality of the PLT-5 and PLT-5e. Its new cylindrical base conceals the internal cabling and structure, leaving a clean, seamless silhouette, while the crystal-clear spherical cover allows garden-style installation and brings real sunlight straight to spaces that lack it — basements, studies, bathrooms, north-facing rooms, bedrooms, wardrobes, living rooms and kitchens.

Key Features

Transparent Dome, Clean Look

Transparent spherical cover on a cylindrical base — a clean, refined look that suits garden aesthetics and blends into building facades.

Place and Use — Easy Installation

The collector has a weighted base plate and can be fixed without construction work — especially suited to courtyards, balconies and indoor floors.

Maintenance-Free

Fully automatic intelligent software control — plug in and go, simple to operate, no extra manual intervention.

High-Precision Sun Sensor

Upgraded sun sensor with 0.1° tracking accuracy; a continuous, stable light spot with no flicker.

100% Real Sunlight

Spectrum of 200–3000 nm, not simulated lighting; UV and IR filters let you choose full-spectrum or visible-only sunlight.

DIY Design, Extraordinary Experience

Collector, energy fiber and spotlight connect with standard SMA905 or similar connectors — perfect for "do it yourself" living, and a remarkable science experience for children.

0.1°	Level 12–13	IP66	500 m
Sun-tracking accuracy	Wind resistance	Electronics protection	Max. glass fiber length

PARANS HELIOS • MINI V1.0

Helios Natural Sunlight System

Home DIY • Portable

For: apartments / high-rises / rentals / quick deployment



Helios is the latest-generation full-spectrum natural sunlight system from Parans after SP4 and PLT6. Built on "compact, light, smart, DIY", it measures 390×560×770 mm and weighs only 20 kg, so one person can carry and install it; it works the moment it is set down, with no roof access or complex construction. It blends advanced fiber compression technology with industrial aesthetics, redefining how natural light is captured and used and letting real sunlight flow freely through built spaces.

Key Technical Features

Compact & Lightweight
390×560×770 mm, 20 kg — flexible placement, easy transport and installation

DIY Design
Mix and match freely for many applications

Fully Built-in Fiber
No external cables: a clean, safe, good-looking unit

Industrial Look
Refined craftsmanship, industrial aesthetics that blend with architecture

Ultra-High Tracking Accuracy
Dual-axis active GPS + light sensing; error below 0.1°

Adjustable Light Output
0.5–5× sunlight intensity, continuously adjustable

Flexible Projection
Projection position, direction and angle freely adjustable

Full-Spectrum Output
200–3000 nm; choose UV, visible or IR freely

Efficient Collection
85% collection rate, 16-core quartz glass fiber

Light Compression
30,000× light-energy compression, full-spectrum power 110–128 W

Ready on Arrival
Place and use; IP65 protection, maintenance-free design

Globally Compatible
Works in northern, southern and equatorial regions

< 0.1°	85%	30,000×	20 kg
Sun-tracking accuracy	Collection rate	Light compression	One-person carry

COLLECTOR SPECIFICATIONS

Collector Technical Specification Summary



Parameter	SP4-8.2	SP4-12.2	SP4-16.2	SP4-24.2	SP4-40.2	PLT6	Helios
Positioning / Use	Large institutions • Modular: commercial complexes • hospitals • tunnels • venues					Small & mid-size • Transparent dome: villas • basements • courtyards	Home mini DIY: apartments • high-rises • rentals
Size L×W×H (mm)	1100×850×820	1100×850×940	1950×1000×820	1950×1000×840	1950×1000×1120	850×850×1020	560×390×770
Weight (kg)	60	65	75	85	95	40	20
Fiber cores (pcs)	16	24	32	48	80	16	16
Full-spectrum output (W)	110 ~ 128	165 ~ 192	220 ~ 256	330 ~ 384	550 ~ 640	110 ~ 128	110 ~ 128
Visible-light output (lm)	6800 ~ 9800	10200 ~ 14700	13600 ~ 19600	20400 ~ 29400	34000 ~ 49000	6800 ~ 9800	6800 ~ 9800
Output spectrum range (nm)	Glass fiber 200–3000 / plastic fiber 425–700; spectrum selectable					Glass 200–3000 / plastic 425–700	200–3000; UV / IR filters optional / visible only
Adjustable spot intensity	Determined by the luminaire used					0.5–10× outdoor sunlight	0.5–5.0× outdoor sunlight
Adjustable projection angle (°)	Determined by the luminaire used					15 ~ 55	5 ~ 100
Fiber type / max. length	Glass fiber 500 m / plastic fiber 50 m (limited by light attenuation)					Same as left	Same as left
Fiber core dia. / numerical aperture	Glass fiber OD = 1.2 mm, NA = 0.48; plastic fiber OD = 2.0 mm, NA = 0.50					Glass OD 1.2 / NA 0.48; plastic OD 2.0 / NA 0.50	OD 1.2 mm / NA 0.48
Min. fiber bend radius	Glass fiber 75 mm / plastic fiber 20 mm					Glass fiber 75 mm / plastic fiber 20 mm	Same as left
Sun tracking	Dual-axis tracking; data connected to Parans Cloud					Dual-axis tracking; horizontal 240°, pitch 90°; accuracy 0.1°	Dual-axis active GPS + light sensing; horizontal ±120°, pitch 0–100°; accuracy <0.1°
Power supply / consumption	AC 110–250 V, 50–60 Hz; 0–12 W					AC 110–250 V, 50–60 Hz; 0–10 W (optional PV power)	AC 110–250 V, 50–60 Hz; 0–5 W
Operating temp. / humidity	-40 ~ +60°C / 0 ~ 95%RH					-40 ~ +60°C / 0 ~ 95%RH	-40 ~ +60°C / 0 ~ 85%RH
Wind resistance / protection	Level 12–13 / IP66					Level 12–13 / IP66	Level 6 / IP65
Material	Aluminum alloy, steel, glass, acrylic					Aluminum, steel, glass, PMMA	—
Min. collectable solar radiation	—					200 W/m² (north of the Tropic of Cancer only)	—
Installation	Rooftop / balcony / yard installation; transition base plate, plug and play					Weighted base, ready to use	DIY, ready to use, maintenance-free
Smart control & O&M	AI big-data O&M platform (Parans Cloud), WiFi / 5G / 4G / GPRS					Fully automatic software control, plug and play	Fully automatic control, adapts globally

*All data assume 100,000 lux solar irradiance (visible light), 20 m fiber length, and clear, haze-free sky. Parameters subject to change without notice.

SPECTRUM

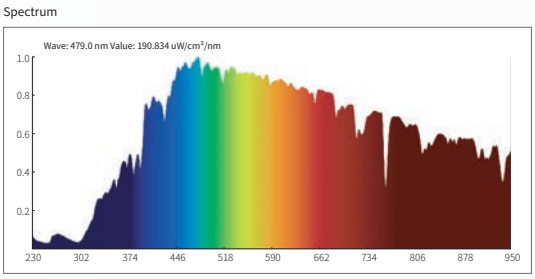
Spectrum Composition

Parans sunlight is taken entirely from natural sunlight. Collected and transmitted by Parans' high-fidelity optical system, it retains essentially the full spectral composition of natural sunlight — real natural light that conventional LEDs and other artificial sources cannot match, helping to address health problems caused by unbalanced lighting. Dr. Sun, Chairman and Chief Scientist, is a global expert in green lighting and photobiology; the team's special optical fiber and high-fidelity optics deliver full-spectrum natural light indoors without attenuation, reproducing the spectrum and biological effects of the outdoor light environment.

Natural Sunlight

NATURAL SUNLIGHT

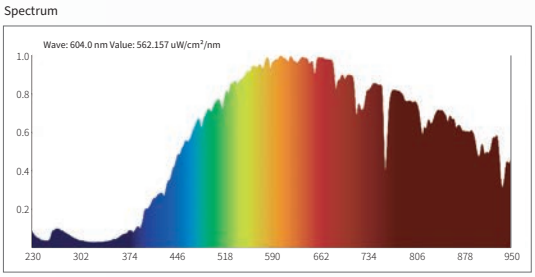
A continuous, smooth full spectrum covering ultraviolet, visible and infrared.



Parans Sunlight

PARANS SUNLIGHT

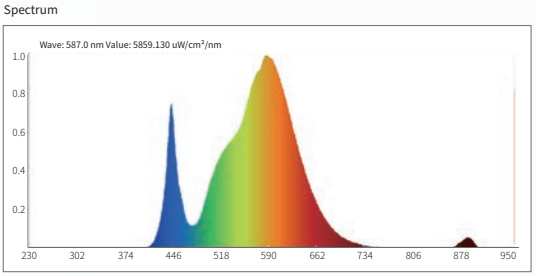
After high-fidelity collection and transmission, essentially the full spectral composition of natural sunlight is retained — true natural sunlight.



LED Light Source

LED

Spiky spectral peaks, no continuous full spectrum; cannot provide complete biological signals.



Selectable Spectrum Range

Full spectrum	**200 ~ 3000 nm**	Glass fiber, incl. UV, visible and IR
Visible only	**425 ~ 700 nm**	Plastic fiber, or add filters
UV / IR filtered	**As needed**	Fitted with UV and IR filters



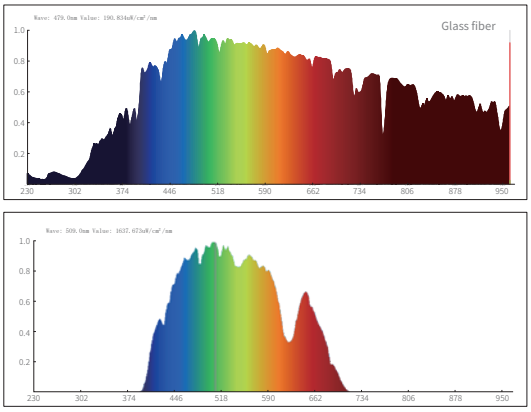
ENERGY OPTICAL FIBER

Energy Fibers & Connectors

Glass Fiber & Plastic Fiber

Property	Glass fiber	Plastic fiber
Fiber structure	Step-index	Step-index
Numerical aperture	0.48 ± 0.02	0.50 ± 0.02
Core material	Glass	PMMA
Core diameter (mm)	1.2	2
Attenuation	0.01dB/m @600nm	0.1dB/m @600nm
Bend radius (mm)	> 75	> 20
Operating temp. (°C)	-65 ~ +140	-50 ~ +70
Spectrum range (nm)	200 ~ 3000	425 ~ 700
Cost	High	Low
Coating	Hard polymer	Polymer
Protective layer	Teflon	Black polyethylene

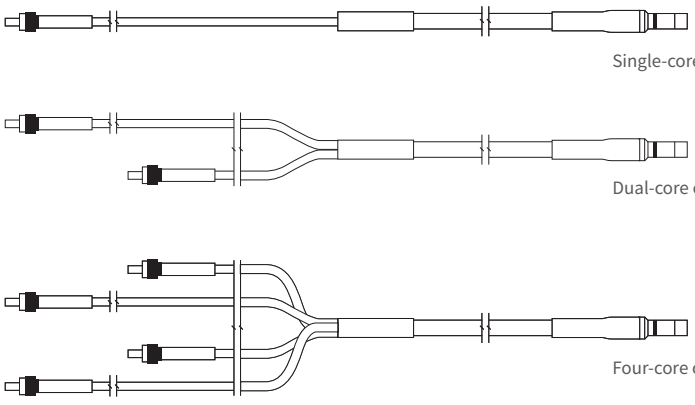
• Spectral comparison



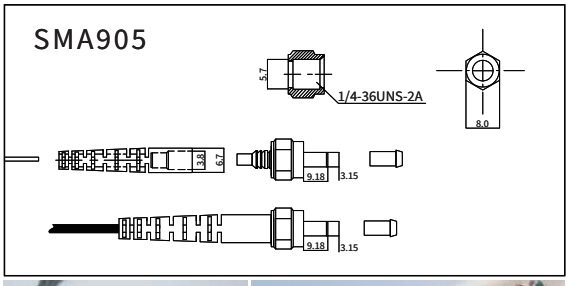
In comparison, glass fiber offers unmatched light transmission performance (spectral range and attenuation) but costs several times as much as plastic fiber; for short-distance, visible-light general lighting, plastic fiber has a clear cost-performance advantage.

Fiber Connectors

• Energy fiber patch cords / transmission network

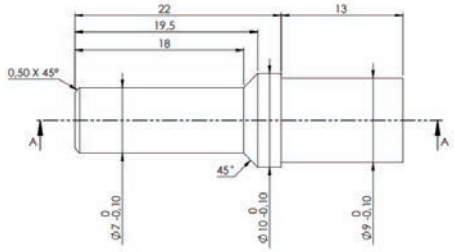


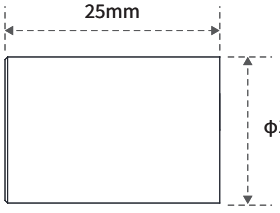
• Input fiber connector: SMA905 (industry standard)





• Output fiber connector: 2/4/8/16-core fiber connections (Parans standard)







SUNLIGHT LUMINAIRES

Sunlight Luminaires Overview

Classified by space function and installation, the ten series cover spot, area, ambient and mobile light sources for whole-home natural light from living room to bathroom. Downlights come in transparent-cover and diffuser versions; the flat ring light and hybrid gimbal downlight combine sunlight + LED. Full specifications are on pages 13–18; the selection table is on page 19.



01 Quartz Pendant Light

QPL01 · QPL02

- Fiber 2 / 4 cores
- Beam angle 58° / 180°
- Hung on clear filament

Suited for **Living room · dining room · bedroom ambience** P13



02 Quartz Ceiling Light

QCL01 · QCL02

- Fiber 2 / 4 cores
- Beam angle 58° / 180°
- Recessed / surface-fixed

Suited for **Corridor · hallway · bathroom accent lighting** P13

LED optional



03 Downlight (Clear Cover)

USR01 ~ 04-TM

- Fiber 4 / 6 / 8 cores
- Beam angle 160° (USR04: 110°)
- Recessed / surface-mount

Suited for **Living room · bedroom · kitchen general lighting** P14

LED optional



04 Downlight (Diffuser)

USR01 ~ 04-DM

- Fiber 4 / 6 / 8 cores
- Beam angle 160° (USR04: 110°)
- Recessed / surface-mount

Suited for **Living room · bedroom · kitchen general lighting** P15

Sunlight + LED



05 Flat Ring Light

FPC-H01

- Fiber 2 / 4 / 8 / 16 cores
- Beam angle 120°
- Pendant or ceiling-mount; sunlight + LED

Suited for **Office · meeting room · commercial reception** P16



06 Floor Spotlight

FSL01 · FSL02

- Fiber 8 / 16 cores
- Beam angle 10°~100° adjustable
- Movable, freely adjustable angle

Suited for **Reading area · sunlight therapy · quick deployment** P16



07 Track Spotlight

ZDSL-02

- Fiber 2 / 4 / 8 / 16 cores
- Beam angle 58°
- Track-mounted, slides along the track

Suited for **Living room · dining room · display accent lighting** P17



08 Recessed Spotlight

FRSL01 · VRSL01

- Fiber 1 / 2 / 4 cores
- Beam angle 58°
- Recessed, spring-clip fixing

Suited for **Corridor · hallway · wall accent** P17

Pure sunlight / Hybrid

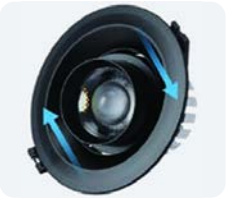


09 Gimbal Downlight

PRBL01/02 · HRBL01/02

- Fiber 2 / 4 cores
- Beam angle 58° / 90° (hybrid)
- Recessed; sunlight or sunlight + LED

Suited for **Living room · bedroom · office accent lighting** P18



10 Zoom Ceiling Spotlight

ZCSL01 · ZCSL02

- Fiber 2 / 4 cores
- Beam angle 15° ~ 60° adjustable
- Recessed, free zoom

Suited for **Living room · bedroom · kitchen · display accent** P18

Common Fiber Specifications

Glass fiber, OD = 1.2 mm, NA = 0.48, min. bend radius 75 mm, max. transmission length 300 ~ 500 m. Performance data depend on solar irradiance, fiber length and weather; on-site survey results should be taken as final.

LUMINAIRE SPECIFICATIONS • 01

Luminaire Technical Specifications

01 Quartz Pendant Light QPL01 · QPL02


Application • dining room ambience


Beam angle • body dimensions


Body appearance reference

Hung from the ceiling, real sunlight flows through a crystal-clear quartz rod; transparent filament suspension makes the body look weightless — ideal over a dining table, at an entrance feature or by a bedside.

Suited for Living room • dining room • bedroom ambience

Parameter	Specifications		Notes
Luminaire type	Quartz Pendant Light		
Model	QPL01	QPL02	
Fiber cores (pcs)	2	4	
Fiber material / core dia. / NA	Quartz glass, OD 1.2mm, NA 0.48	Same as left	
Min. bend radius / max. length	75mm / 300m	Same as left	Reserve bend radius when routing
Quartz rod size (mm)	Ø20 × H200	Ø30 × H200	
Body size (mm)	Ø25 × H235	Ø35 × H235	Overall length incl. quartz rod
Body material / weight	Quartz & stainless steel, 0.2kg	Quartz & stainless steel, 0.4kg	Stainless parts last longer
Body finish	Clear & natural stainless	Same as left	Transparent look is a design highlight
Beam angle	58° / 180°	Same as left	
Light coupling efficiency	90%	Same as left	Industry-leading
Installation	Hung on clear filament	Same as left	No drilling needed, quick to install

02 Quartz Ceiling Light QCL01 · QCL02


Application • lighting plants


Beam angle • body dimensions


Body structure • recessed installation

A compact round recessed body gathers warm sunlight within a 108 mm footprint, with a small mounting hole and low retrofit cost — lighting corridors, hallways and bathrooms. The protruding quartz rod gives off soft sunlight and lifts the emotional value of a space.

Suited for Living room • bedroom • corridor • bathroom accent and ambience

Parameter	Specifications		Notes
Luminaire type	Quartz Ceiling Light		
Model	QCL01	QCL02	
Fiber cores (pcs)	2	4	
Fiber material / core dia. / NA	Quartz glass, OD 1.2mm, NA 0.48	Same as left	
Min. bend radius / max. length	75mm / 500m	Same as left	Reserve bend radius when routing
Quartz rod size (mm)	Ø30 × H20	Same as left	
Body size / weight	Ø108 × 62 mm, 0.45 kg	Same as left	
Body material / finish	Aluminum, white	Same as left	
Beam angle	58° / 180°	Same as left	
Light coupling efficiency	90%	Same as left	Industry-leading
Installation	Recessed or surface-fixed	Same as left	

*All data assume 100,000 lux solar irradiance (visible light), 20 m fiber length, and clear, haze-free sky.

LUMINAIRE SPECIFICATIONS • 02

Luminaire Technical Specifications

03 Downlight (Transparent Cover) USR01 ~ 04-TM

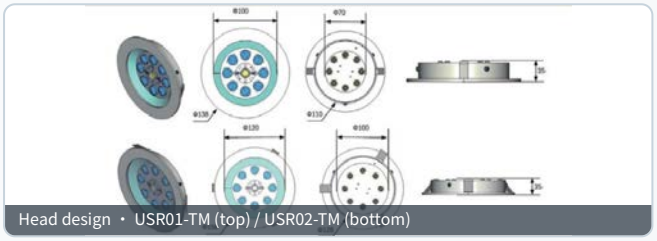
LED optional

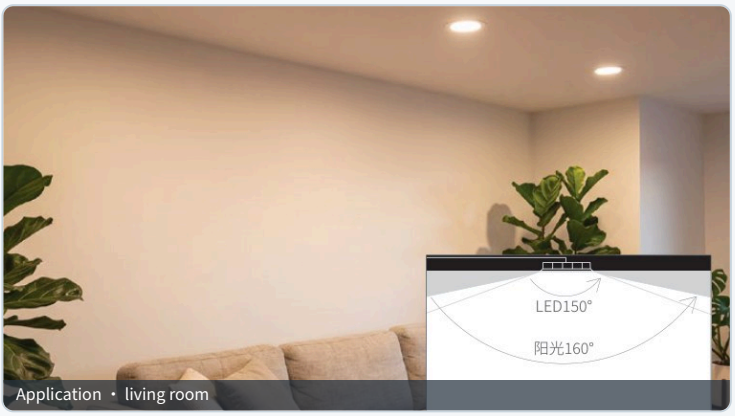
Transparent acrylic face for clear light output; recessed models (USR01 / USR02) follow the ceiling profile with a small cut-out and easy installation; surface-mount models (USR03 / USR04) come with connectors and screws and need no ceiling work. Optional LED source compensates when sunlight is insufficient, manually or intelligently via DALI / DSI smart drivers.

Suited for Living room • bedroom • kitchen general lighting

Recessed • USR01-TM / USR02-TM


Appearance reference • USR01-TM (left) / USR02-TM (right)

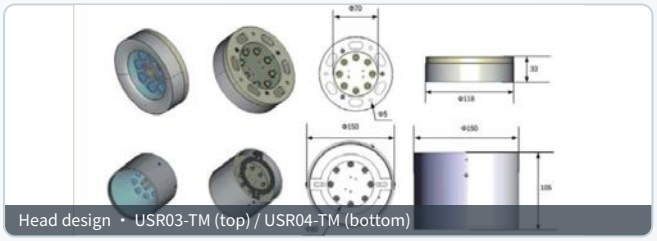

Head design • USR01-TM (top) / USR02-TM (bottom)

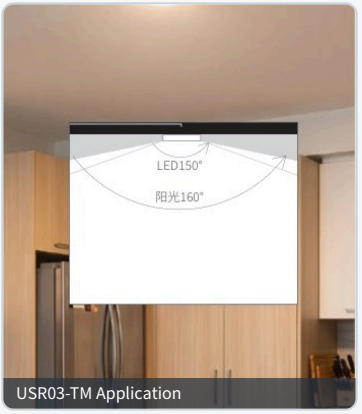


Application • living room

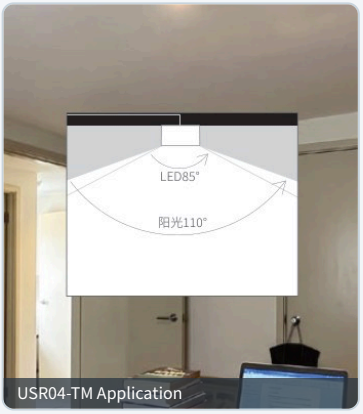
Surface-mount • USR03-TM / USR04-TM


Appearance reference • USR03-TM (left) / USR04-TM (right)


Head design • USR03-TM (top) / USR04-TM (bottom)



USR03-TM Application



USR04-TM Application

Parameter	Specifications				Notes
Luminaire type	Downlight (Transparent Cover)				
Model	USR01-TM	USR02-TM	USR03-TM	USR04-TM	
Size (mm)	Φ138 × 35	Φ158 × 35	Φ118 × 33	Φ150 × 110	
Weight (kg)	0.25	0.32	0.57	0.7	Excl. LED driver
Material	Housing: aluminum Cover: PMMA				
Fiber cores	4 / 6 / 8				
Lumens per core (lm)	350 ~ 550				
Max. power per core (W)	8				
LED source (W)	10 ~ 12				Optional
Beam angle (°)	160	160	160	110	
Installation	Recessed fixing Spring clips (2)	Recessed fixing Spring clips (3)	Surface-mount, with connector and screws		
Mounting hole dia.	Φ100~120mm	Φ130~140mm	Φ65~75mm	Φ80~100mm	
Ceiling thickness	< 20mm		/		
Ceiling type	Suspended ceiling				
Ceiling-to-roof gap	> 200mm				
Finish color	Transparent acrylic face, powder-coated aluminum housing / white				

*All data assume 100,000 lux solar irradiance (visible light), 20 m fiber length, and clear, haze-free sky.
*LED light source is optional; when sunlight is insufficient the LED compensates, manually or intelligently with DALI / DSI smart drivers.

LUMINAIRE SPECIFICATIONS • 03

Luminaire Technical Specifications

04 Downlight (Diffuser) USR01 ~ 04-DM

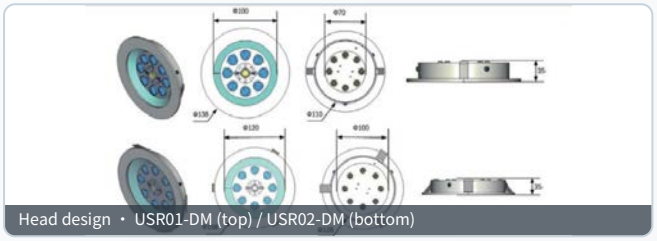
LED optional

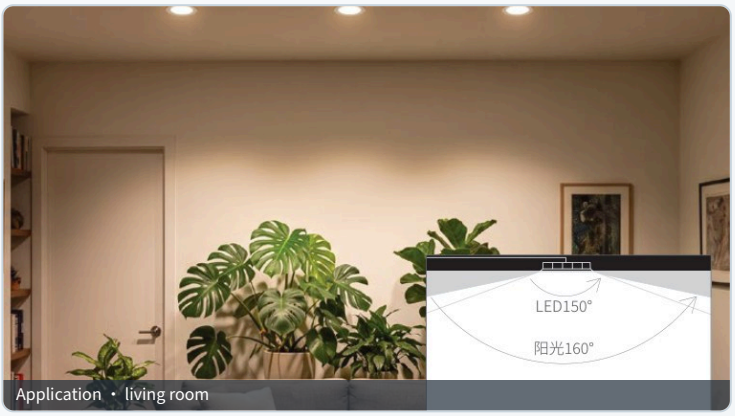
Frosted acrylic face softens the light spot into an even, glare-free glow; recessed models (USR01 / USR02) follow the ceiling profile with a small cut-out and easy installation; surface-mount models (USR03 / USR04) come with connectors and screws and need no ceiling work. Optional LED source compensates when sunlight is insufficient, manually or intelligently via DALI / DSI smart drivers.

Suited for Living room • bedroom • kitchen general lighting

Recessed • USR01-DM / USR02-DM


Appearance reference • USR01-DM (left) / USR02-DM (right)

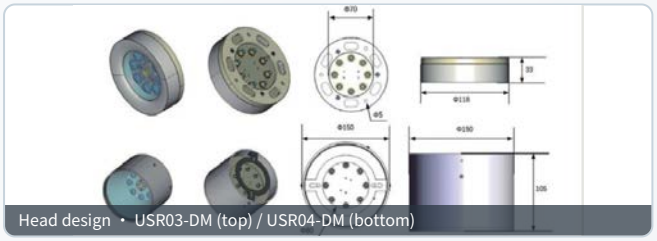

Head design • USR01-DM (top) / USR02-DM (bottom)

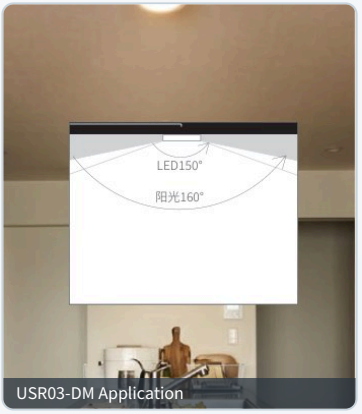


Application • living room

Surface-mount • USR03-DM / USR04-DM


Appearance reference • USR03-DM (left) / USR04-DM (right)


Head design • USR03-DM (top) / USR04-DM (bottom)



USR03-DM Application



USR04-DM Application

Parameter	Specifications				Notes
Luminaire type	Downlight (Diffuser)				
Model	USR01-DM	USR02-DM	USR03-DM	USR04-DM	
Size (mm)	Φ138 × 35	Φ158 × 35	Φ118 × 33	Φ150 × 110	
Weight (kg)	0.25	0.32	0.57	0.7	Excl. LED driver
Material	Housing: aluminum Cover: PMMA				
Fiber cores	4 / 6 / 8				
Lumens per core (lm)	350 ~ 550				
Max. power per core (W)	8				
LED source (W)	10 ~ 12				Optional
Beam angle (°)	160	160	160	110	
Installation	Recessed fixing Spring clips (2)	Recessed fixing Spring clips (3)	Surface-mount, with connector and screws		
Mounting hole dia.	Φ100~120mm	Φ130~140mm	Φ65~75mm	Φ80~100mm	
Ceiling thickness	< 20mm		/		
Ceiling type	Suspended ceiling				
Ceiling-to-roof gap	> 200mm				
Finish color	Frosted acrylic face, powder-coated aluminum housing / white				

*All data assume 100,000 lux solar irradiance (visible light), 20 m fiber length, and clear, haze-free sky.
*LED light source is optional; when sunlight is insufficient the LED compensates, manually or intelligently with DALI / DSI smart drivers.

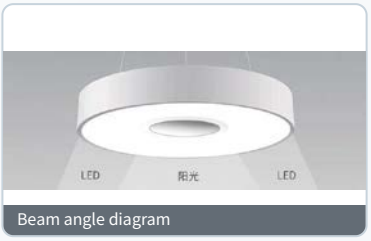
LUMINAIRE SPECIFICATIONS · 04

Luminaire Technical Specifications

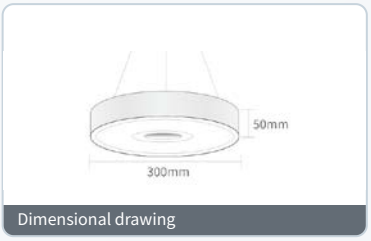
05 Flat Ring Light FPC-H01

Sunlight + LED


Application · meeting room main light / garage



Beam angle diagram



Dimensional drawing

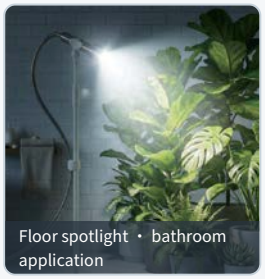
Sunlight and LED in one: the 300 mm disc unifies office, meeting-room and reception lighting under one standard — pure and natural when sunlight is plentiful, seamlessly topped up by LED when it is not, manually or intelligently via DALI/DSI smart drivers, for constant illuminance without interruption. Pendant or ceiling-mount design suits different ceiling heights.

Suited for Office · meeting room · garage · kitchen main lighting

Parameter	Specifications	Notes
Luminaire type	Flat Ring Light (sunlight + LED dual source)	
Model	FPC-H01	
Size (mm)	Φ300 × 50	
Weight (kg)	0.60	
Material	Aluminum alloy + PC	
Fiber cores (pcs)	2 / 4 / 8 / 16	Four sizes available
Lumens per core (lm)	425 ~ 613	
LED efficacy (lm/W)	90 ~ 130	Compensates when sunlight is insufficient
LED power (W)	18	
Beam angle	120°	
Protection rating	IP20	
Installation	Pendant / ceiling-mount	Wire-rope suspension or flush ceiling mount
Finish color	Black / white	

06 Floor Spotlight FSL01 · FSL02


Dimensions / flood diagram


Floor spotlight · bathroom application

No construction — just pick it up and use it, with projection angle and intensity in your own hands. The round-disc pole stand adjusts freely from 1000 to 1800 mm, from a late-night reading corner to sunlight therapy by the balcony, so sunlight follows your life. Infrared heat gives sunlight massage and moxibustion-like warmth; UV helps trigger vitamin D and sterilize — especially suited to seniors' sunlight therapy and children's eye-friendly lighting.

Suited for Reading area · therapy light · seniors' sunlight therapy · children's eye care · bathroom

Parameter	Specifications		Notes
Luminaire type	Floor Spotlight		
Model	FSL01	FSL02	
Fiber cores (pcs)	8	16	
Fiber material, core dia., NA, min. bend radius and max. length	Quartz glass, OD=1.2 mm, NA=0.48, 75 mm, 300 m	Same as left	
Fiber protective tube: material, OD, ID, weight	Stainless steel, OD 15 mm, ID 13 mm, port ID 11 mm, 0.11~0.15 kg/m	Same as left	Metal tube is more wear-resistant
Stand: disc dia., weight, size, finish	3.0 kg, disc Ø250 × pole H(1000~1800 mm) adjustable, white / red / black	Same as left	Height adjustable, three colors
Spotlight: weight, size, finish	0.8 kg, Ø53 × (217.3~245.3) mm, natural stainless steel	Same as left	Durable stainless-steel feel
Light mode	Zoom spot / flood: 10~100° range / 0.5~5.0× outdoor sunlight adjustable	Same as left	Switch freely between spot and flood
Light coupling efficiency	90%	Same as left	Industry-leading
Installation	Ready to use, no fixing; projection direction, angle and spot adjustable; maintenance-free	Same as left	Maintenance-free, move anytime

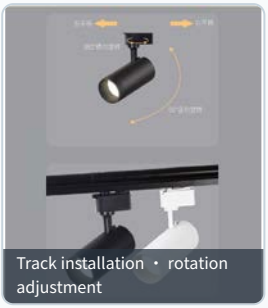
*All data assume 100,000 lux solar irradiance (visible light), 20 m fiber length, and clear, haze-free sky.

LUMINAIRE SPECIFICATIONS · 05

Luminaire Technical Specifications

07 Track Spotlight ZDSL-02


Track spotlight · dining room reading

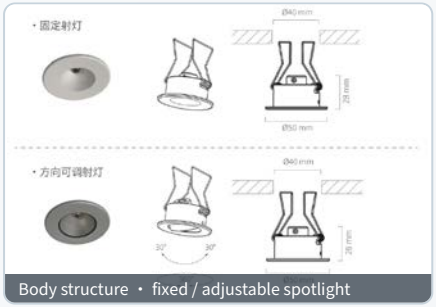

Track installation · rotation adjustment

The body clicks into the track and slides freely along it; the head rotates 360° horizontally and tilts -60°~+60°, aiming the beam flexibly at furnishings and displays. IP44, black / white options; suited to accent lighting in dining rooms, living rooms and display spaces.

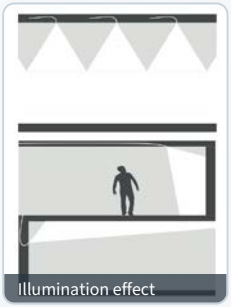
Suited for Living room · dining room · display · commercial accent lighting

Parameter	Specifications	Notes
Luminaire type	Track Spotlight	
Model	ZDSL-02	
Size (mm)	ϕ63 × 150	
Weight (kg)	0.3	
Material	Aluminum + PMMA	
Fiber cores (pcs)	2 / 4 / 8 / 16	
Lumens per core (lm)	425 ~ 613	
Optical power per core (W)	10	Glass fiber / full spectrum
Beam angle	58°	
Tilt angle	-60° ~ +60°	
Rotation angle	360°	
Protection rating	IP44	
Installation	Track / surface-mount	
Ceiling type	Ceiling	
Finish color	Black / white	

08 Recessed Spotlight FRSL01 · VRSL01



Body structure · fixed / adjustable spotlight


Illumination effect

An ultra-small Φ50 mm body needing only a 40 mm hole, spring-fixed so it nearly disappears into the ceiling. Available fixed or adjustable (30° tilt, 360° rotation) — one small light brightens corridors, hallways, walls and displays.

Suited for Corridor · hallway · wall accent · display lighting

Parameter	Specifications		Notes
Luminaire type	Fixed spotlight	Adjustable spotlight	
Model	FRSL01	VRSL01	
Size (mm)	ϕ50 × 28		
Weight (kg)	< 0.05	0.05	
Material	Aluminum		
Recess depth (mm)	210		
Fiber cores (pcs)	1 / 2 / 4		
Lumens per core (lm)	425 ~ 613		
Optical power per core (W)	10		Glass fiber / full spectrum
Beam angle	58°		Depends on NA
Tilt angle	N/A	30°	
Rotation angle	N/A	360°	
Mounting hole (mm)	40		
Installation	Recessed, with spring clips		
Ceiling type	Ceiling		

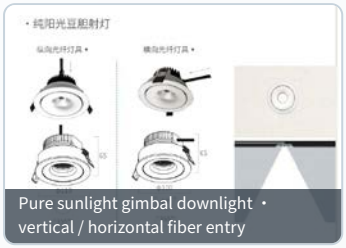
*All data assume 100,000 lux solar irradiance (visible light), 20 m fiber length, and clear, haze-free sky.

LUMINAIRE SPECIFICATIONS • 06

Luminaire Technical Specifications

09 Recessed Gimbal Downlight PRBL01 • PRBL02 • HRBL01 • HRBL02

Pure sunlight / Hybrid


Pure sunlight gimbal downlight • vertical / horizontal fiber entry


Hybrid gimbal downlight • sunlight + LED

The pure sunlight version emits natural sunlight directly; the hybrid version has dual sources, "natural sunlight + LED", with LED compensating when sunlight is insufficient, manually or intelligently via DALI / DSI smart drivers. The head tilts 60° and rotates 355°; fiber can enter vertically or horizontally.

Suited for Living room • bedroom • office • commercial accent and local lighting

Parameter	Specifications				Notes
Luminaire type	Pure Sunlight Gimbal Downlight		Hybrid Gimbal Downlight		
Model	PRBL01	PRBL02	HRBL01	HRBL02	
Size (mm)	110 × 110 × 65		240 × 120 × 65		
Weight (kg)	0.5		0.95		
Material	Aluminum				
Recess depth (mm)	250	65	250	65	
Fiber entry direction	Vertical	Horizontal	Vertical	Horizontal	
Fiber cores (pcs)	2 / 4				
Lumens per core (lm)	425 ~ 613				
Optical power per core (W)	10				Glass fiber / full spectrum
LED light output (lm)	N/A		755		
LED power (W)	N/A		12		
Beam angle	58°		90°		
Tilt angle	60°				
Rotation angle	355°				
Protection rating	IP20				
Mounting hole (mm)	100		2 × 100 ~ 110		
Installation	Recessed, with spring clips				
Ceiling type	Ceiling				
Finish color	White				

10 Zoom Ceiling Spotlight ZCSL01 • ZCSL02

Swing the head to zoom freely between 15°~60°: spot to highlight artwork and key displays, flood to spread a soft glow; 60° tilt, 360° rotation, IP44, in Φ75 and Φ90 sizes to suit different cut-outs.

Suited for Living room • bedroom • kitchen • entrance • display accent lighting


Dimensions • ZCSL01 (Φ75 × 30) / ZCSL02 (Φ90 × 40)


Swing • free zoom


Spot / flood comparison

Parameter	Specifications		Notes
Luminaire type	Zoom Ceiling Spotlight		
Model	ZCSL01	ZCSL02	
Size (mm)	ϕ75 × 30	ϕ90 × 40	
Weight (kg)	0.12		
Material	Aluminum		
Recess depth (mm)	250		
Fiber cores (pcs)	2 / 4		
Lumens per core (lm)	425 ~ 613		
Optical power per core (W)	10		Glass fiber / full spectrum
Beam angle	15° ~ 60°		Zoom adjustable
Tilt angle	60°		
Rotation angle	360°		
Protection rating	IP44		
Mounting hole (mm)	55 ~ 65	72 ~ 80	
Installation	Recessed, with spring clips		
Ceiling type	Ceiling		
Finish color	White / black		

*When natural sunlight is insufficient, the LED source compensates.*All data assume 100,000 lux solar irradiance (visible light), 20 m fiber length, and clear, haze-free sky.

QUICK REFERENCE & INSTALLATION NOTES

Full-Range Selection Table & Installation Notes

Quickly match spaces by fiber cores, beam angle and installation type; refer to each product page for exact specifications.

Series	Model	Cores	Beam angle	Installation	Recommended spaces
01 Quartz Pendant Light	QPL01 / QPL02	2 / 4	58° / 180°	Hung on filament	Living room · dining room · bedroom
02 Quartz Ceiling Light	QCL01 / QCL02	2 / 4	58° / 180°	Recessed / surface-fixed	Corridor · hallway · bathroom
03 Downlight (Transparent Cover)	USR01-TM	4 / 6 / 8	160°	Recessed fixing	Living room · bedroom · kitchen
03 Downlight (Transparent Cover)	USR02-TM	4 / 6 / 8	160°	Recessed fixing	Living room · bedroom · kitchen
03 Downlight (Transparent Cover)	USR03-TM	4 / 6 / 8	160°	Surface-mount	Living room · bedroom · kitchen
03 Downlight (Transparent Cover)	USR04-TM	4 / 6 / 8	110°	Surface-mount	Living room · bedroom · kitchen
04 Downlight (Diffuser)	USR01-DM	4 / 6 / 8	160°	Recessed fixing	Living room · bedroom · kitchen
04 Downlight (Diffuser)	USR02-DM	4 / 6 / 8	160°	Recessed fixing	Living room · bedroom · kitchen
04 Downlight (Diffuser)	USR03-DM	4 / 6 / 8	160°	Surface-mount	Living room · bedroom · kitchen
04 Downlight (Diffuser)	USR04-DM	4 / 6 / 8	110°	Surface-mount	Living room · bedroom · kitchen
05 Flat Ring Light	FPC-H01	2 / 4 / 8 / 16	120°	Pendant	Office · meeting room · commercial reception
06 Floor Spotlight	FSL01 / FSL02	8 / 16	10°~100° adjustable	Movable floor unit	Reading area · sunlight therapy and more
07 Track Spotlight	ZDSL-02	2 / 4 / 8 / 16	58°	Track-mounted	Living room · dining room · display
08 Recessed Spotlight	FRSL01 / VRSL01	1 / 2 / 4	58°	Recessed fixing	Corridor · hallway · wall
09 Recessed Gimbal Downlight	PRBL01 / PRBL02	2 / 4	58°	Recessed fixing	Living room · bedroom · office
09 Recessed Gimbal Downlight	HRBL01 / HRBL02	2 / 4	90°	Recessed fixing	Living room · bedroom · office
10 Zoom Ceiling Spotlight	ZCSL01 / ZCSL02	2 / 4	15°~60° adjustable	Recessed fixing	Living room · bedroom · kitchen

Common Fiber Specifications

Glass fiber, OD = 1.2 mm, NA = 0.48, min. bend radius 75 mm, max. transmission length 500 m. See product pages.

Data basis

Performance data depend on solar irradiance, fiber length and weather; see each page's footnote, and take on-site survey results as final.

Installation & Technical Notes · Five Key Steps

Applies to all sunlight luminaires in this catalogue

1 Selection
Match luminaire series and fiber cores to the table by room depth, ceiling clearance and budget

2 Routing
Fully straighten the fiber before passing it through a wall; never feed it through while coiled

3 Fixing
Secure the cable after the penetration point, then at least every 10 m; min. bend radius not below 75 mm

4 Installation
For recessed models check ceiling clearance and cut-out cost; for surface-mount models confirm hole size and connector fit

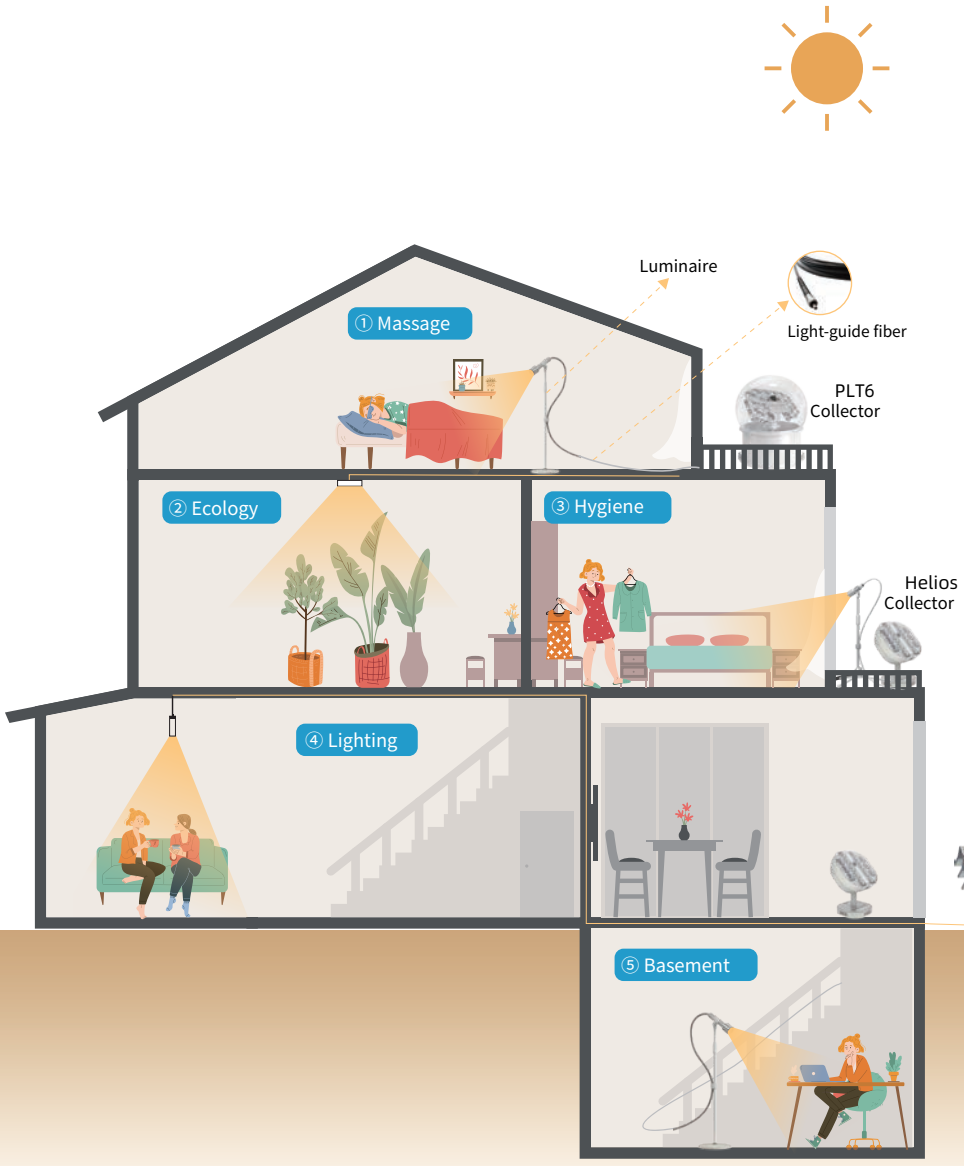
5 Acceptance
Contact Parans staff for remote or video guidance before installation to ensure quality

Quick Selection by Space

Space	Recommended luminaire series
Living room · dining room · bedroom ambience	01 Quartz Pendant Light
Corridor · hallway · bathroom · wall accent	02 Quartz Ceiling Light · 08 Recessed Spotlight
Living room · bedroom · kitchen general lighting	03 Downlight (Transparent Cover) · 04 Downlight (Diffuser)
Office · meeting room · commercial reception · garage main light	05 Flat Ring Light
Reading area · sunlight therapy · children's eye care · quick deployment	06 Floor Spotlight
Dining room · display · office accent lighting	07 Track Spotlight · 09 Recessed Gimbal Downlight · 10 Zoom Ceiling Spotlight

SUNLIGHT HOUSE CONCEPT

Sunlight Cabin Concept



Application Scenario Design

The Parans Sunlight Cabin has five parts — sunlight massage, sunlight ecology, sunlight hygiene, sunlight lighting and sunlight basement — delivering collected natural sunlight by fiber to where the home needs it most.



1 Sunlight Collector

Outdoor dual-axis tracking for efficient sunlight collection



2 Light-guide fiber

Full-spectrum sunlight transmitted indoors without attenuation



3 Spotlight / Luminaire

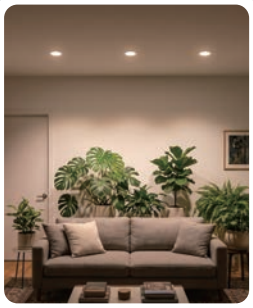
Precise projection, flexible position and angle

Five Components



① Sunlight Massage

Adjustable sunlight on shoulders, knees and other areas; infrared warmth forms a gentle "light massage".



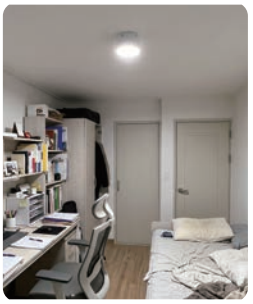
② Sunlight Ecology

Full-spectrum light on indoor plants creates a micro-ecosystem that "breathes".



③ Sunlight Hygiene

Reaches mattresses, wardrobes and kitchen corners to dehumidify and inhibit mold and bacteria.



④ Sunlight Lighting

Natural sunlight on desk and living areas; continuous spectrum, Ra=100, true colors.



⑤ Sunlight Basement

Real sunlight for basements, north-facing rooms and dark halls.

APPLICATION SCENARIOS

Five Key Application Scenarios



A "Light-Therapy Masseur" for Seniors

Relieves Rheumatic Aches

The infrared heat in sunlight forms a gentle "light massage", promoting local blood circulation and easing joint pain and stiffness, so older adults can enjoy warm sunshine without going outdoors.

Natural Calcium Boost

The UVB band of full-spectrum sunlight stimulates the skin to synthesize vitamin D, aiding calcium absorption and helping prevent osteoporosis; they can "sunbathe" at home, easing the caregiving burden.



A Mood "Regulator" for the Mind

Eases Seasonal Low Mood

Long-term lack of sunlight easily leads to low mood and disturbed sleep; studies show natural light therapy helps improve mood and restore energy and positivity.

Dispels Gloom, Lifts Mood

For basements, dark halls and rainy weather, full-spectrum natural sunlight helps regulate melatonin and serotonin, improving sleep quality and stabilizing mood.



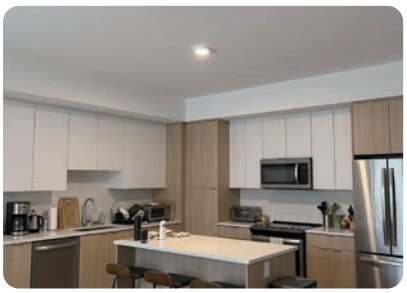
An Indoor "Green Air Purifier"

Activates Plant Potential

Sunlight projected onto green walls or indoor plant areas supplies the complete spectrum needed for photosynthesis, so plants thrive and absorb CO_2, formaldehyde and other gases faster while releasing oxygen and negative ions.

Builds an Eco-Cycle Environment

Creates an indoor micro-ecosystem that "breathes", keeping home air fresh as if in a natural forest.



A "Sterile Shield" for the Home

Anti-Mite, Anti-Damp, Anti-Mold

Sunlight reaches deep inside mattresses, wardrobes and cabinets, quickly evaporating moisture and inhibiting mold and dust mites, leaving clothes and bedding with a "sunshine scent".

Antibacterial Disinfection

Natural UV in sunlight, aimed at key areas such as kitchen counters and bathroom corners, helps inhibit common bacteria such as E. coli and Staphylococcus aureus.



A "Vision Guardian" for Teens

Full-Spectrum Healthy Lighting

Projected onto the desk area, it comes closest to the lighting conditions the human eye naturally adapts to; a high color rendering index (Ra=100) and continuous, smooth spectrum restore true colors for more comfortable reading.

Protects Eyesight

Compared with conventional artificial lighting, natural light helps reduce visual fatigue and is considered to help curb excessive axial elongation — an ideal light environment for myopia prevention and control.

*Results vary by person and scenario. Health-related statements are for reference only and do not replace medical diagnosis or treatment; follow the product instructions and safety notes for UV exposure.

INSTALLATION • SP4 / PLT6

SP4 • PLT6 Installation Methods

SP4 Large commercial institutions • 8 collector mounting methods • for flat roofs, ground and sloped roofs

SP4 collectors are mainly installed on the ground and roofs with flexible fixing. Site conditions dif ér, so the methods below are for reference; the actual solution must be assessed and adjusted on site to ensure system stability and light collection.

Flat roof or ground installation • 01–07



Non-penetrating (rubber base / suction cups)

Principle Large rubber bases or suction cups hold the unit on the roof by its own weight and surface friction.
Advantages No drilling or penetrating the waterproof layer — protects the roof and lowers leak risk.



Metal channel

Principle Prefabricated C-channels bolted into a grid, ballasted with concrete blocks, anchored where needed.
Advantages Flexible, quick to install, highly adjustable, easy to dismantle and maintain.



Non-penetrating ballast

Principle Concrete paving slabs serve as ballast; feet are bolted to brackets on the slabs, with no roof drilling.
Advantages Protects the waterproof layer and avoids leaks; stays stable under wind and other loads.



Concrete embedded parts

Principle Embedded parts are cast into a concrete foundation, then the SP4 collector is bolted to them.
Advantages Strong support, durable, wind-resistant — suited to long-term use with less maintenance.



Existing platform fixing

Principle Install directly on an existing roof or ground platform, bolted in place with minimal extra brackets.
Advantages Saves cost and space, simple and stable, avoids shading, good light collection.



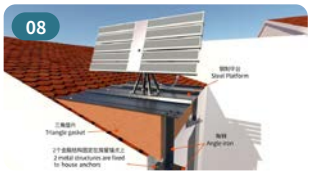
Raised bracket

Principle Base fixed to the roof structure (or ballasted on flat roofs); columns and beams with diagonal braces resist wind.
Advantages Raised installation avoids shading and ensures good light collection.



Metal load-bearing frame

Principle Wind and vibration are resisted by base weight or added ballast and roof friction, with no roof drilling.
Advantages Does not damage the waterproof layer; fast, simple, evenly loaded, movable, and easy to get building approval.



Sloped roof • wall / eave cantilever steel structure

Principle Angle-steel columns anchored to the wall with chemical / expansion bolts; gussets cantilever the steel platform, passing loads into the structure.
Advantages No damage to waterproofing; fast, simple, fits most roofs, easy to approve.

Note: 08 is the sloped-roof method. Adapter plates, foundations and brackets should be sized and thickened to suit actual conditions; follow the installation instructions for detailed steps.

PLT6 Homes • Villas • Weighted base, no construction



Roof concrete base

A concrete base is added on a flat roof, leaving the roof undamaged — stable with unobstructed light collection.



Garden landscape type

The collector blends into the garden landscape through specially designed brackets and custom shapes, balancing light collection and appearance.



Platform ballast / bracket

Placed on a garden platform with ballast or ground-fixed brackets as appropriate, without af ecting lawn or landscape.



Side-wall landscape type

A side-wall platform uses specially designed brackets and custom shapes to blend with the garden landscape.



Raised bracket installation

Brackets fixed to the roof structure raise the unit to reduce shading; flat roofs can use ballast or a non-penetrating base.

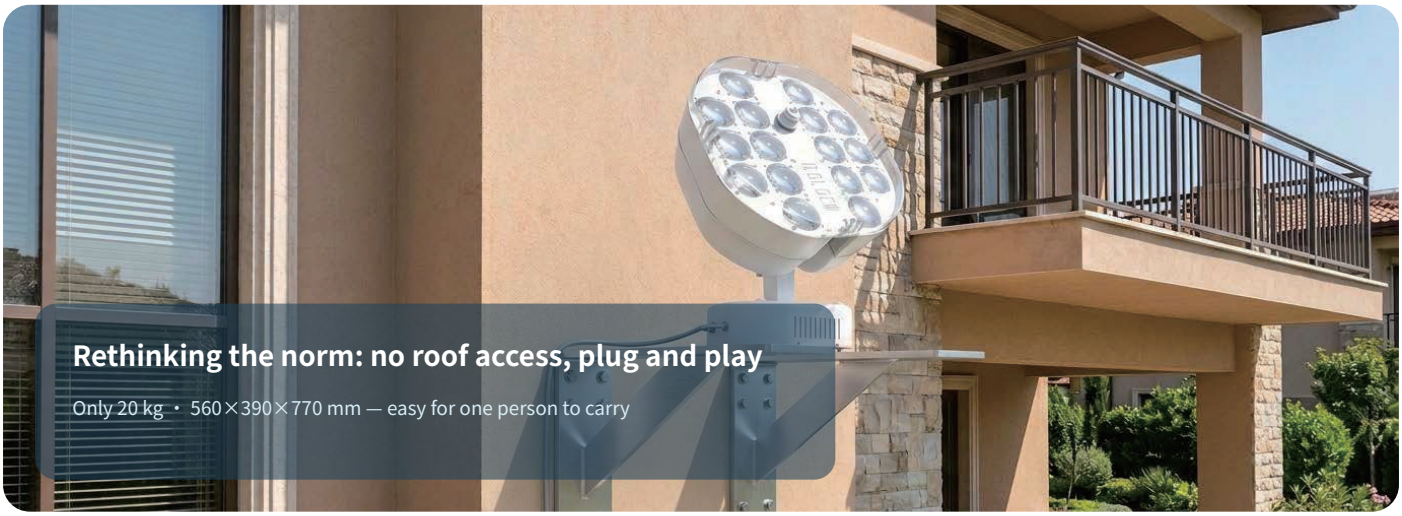


Disused pipework conversion

Converts existing disused pipework, reusing idle facilities while keeping the landscape ef ect.

INSTALLATION • HELIOS

Helios Installation Methods



Through innovative design, Helios overturns the installation of conventional daylighting systems, doing away with roof access and complex construction. A smart terminal and an adjustable floor spotlight give flexible light direction and intensity, so light can be cast exactly where it is needed. It supports two deployment modes:

Direct Indoor Mode

No wall drilling — ideal for rentals and finished homes.

Flexible Outdoor Mode

Place the system on a balcony, wall or courtyard: simple, good-looking and non-destructive, meeting the needs of varied environments.



Indoor Floor Placement

Collector and spotlight both sit on the indoor floor, connected by a flexible fiber tube — no wall drilling or construction, ready to use. Suited to places where building work is inconvenient or use is temporary.



Balcony Wall Mounting

The collector is mounted on the balcony wall and the spotlight sits on the balcony floor; sunlight passes through the window glass straight indoors, with no wall drilling.



Balcony Floor Placement

The collector sits on the balcony floor and the fiber enters the room through a small hole in the wall to the luminaire — only simple work needed, balancing easy installation and lighting effect.



Courtyard Floor Placement

The collector sits on the courtyard floor and the fiber enters through a small wall hole to the luminaire; simple work, suited to detached houses or buildings with a courtyard.



Wall Bracket Mounting

The collector is fixed to the wall with a metal bracket and the fiber enters through a wall hole; for limited floor space or when a higher collection position is needed.

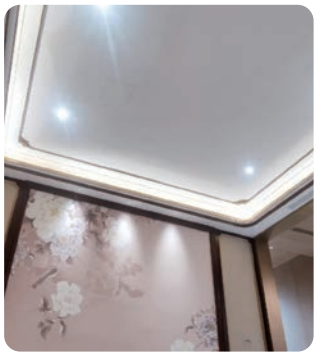


Outdoor Pole Mounting

The collector is mounted on an outdoor metal pole and the fiber enters through a small wall hole to the luminaire; for unobstructed sites or where the best collection angle is needed.

DOMESTIC CASES • RESIDENTIAL

Domestic Cases • Residential

"Sunlight Villas", Bordeaux Town, Qingdao

PLT-5 × 16 | 8 luxury villas | Flat roof, concrete base

Creating a healthy, comfortable, energy-saving natural light environment for high-end homes. 16 Parans PLT-5 sunlight systems are installed across 8 luxury villas on flat roofs, fixed on added concrete bases so the roof is not damaged and the units stay stable with unobstructed light collection.




Yunjin Dongfang Yunzhu Villa, Shanghai

PLT6 × 2 | Two-level basement | Courtyard landscape-style

Two PLT6 sunlight systems bring precious natural light into a two-level basement, reaching both underground floors and turning an oppressive space into one with the feel of real sunshine; the picture shows sunlight projected in the home cinema. The collectors blend into the courtyard landscape through specially designed brackets and custom shapes.




Qianyuanfu Luxury Apartment, Zhangdian, Zibo

PLT6 × 3 | Basement • north-facing room | Study / tea room / bathroom

Three systems light up a basement and a north-facing room with no daylight, and bring sunlight into the study, tea room and bathroom; 100% real sunlight, not simulated lighting, creating a warm atmosphere, protecting eyesight and promoting physical and mental health. Placed on the courtyard platform with counterweights or fixed brackets as needed, without spoiling the courtyard's look.




Chunjiang Garden Villa, Hangzhou

PLT6 × 2 | Tea room • gym • bathroom | Side-wall landscape-style

Two PLT6 daylight systems bring natural sunlight into the basement tea room, gym and bathroom. The owner remarked: "Being in the basement feels like being in nature — plenty of sunshine, lush greenery and fresh air." Specially designed brackets and custom shapes blend the platform into the courtyard landscape, providing needed light while enhancing the courtyard's look.

Customer Reviews

"Since installing Parans Helios, our indoor plants are livelier and the air is fresh and pleasant."
— John Parsey, homeowner, Phoenix, USA

"I can really feel warmth like natural sunlight outdoors."
— Qingdao customer

"Being in the basement feels like being in nature — plenty of sunshine, lush greenery, fresh air."
— Hangzhou homeowner

DOMESTIC CASES • COMMERCIAL • PUBLIC

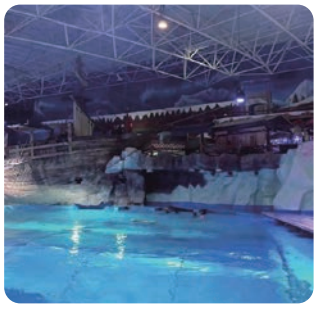
Domestic Cases • Commercial • Public • Agriculture




CRCC Headquarters (Shunyi, Beijing)

PLT6 × 11 | 110,000 lumens | ~40,000 kWh saved a year | ~6-year payback

The CRCC headquarters campus (Shunyi) procured and installed 11 fully zero-carbon PLT6 sunlight systems for natural sunlight lighting of meeting rooms, exhibition halls and offices. The 11 PLT6 units output 110,000 lumens of natural sunlight, replacing 11 kW of conventional energy-saving tubes, saving about 40,000 kWh a year with a payback of about 6 years, while improving office comfort, staff productivity and mood. Raised bracket installation reduces shading.

Seal Pavilion, Qingdao Polar Ocean World

SP4-40.2 (80 light points) | ~10 m fiber | ~15 m² spot • ~3,000 lux

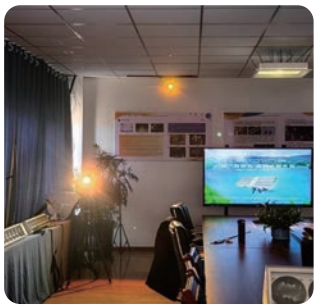
Aquariums need sunlight to keep animals healthy and active. About 10 m of fiber guides sunlight into a sealed pool, forming a strong light spot of about 15 m² with visible illuminance of about 3,000 lux plus abundant UV and IR, helping prevent skin disease in seals.




Ruichang Underground Car Park, Qingdao

PLT6 × 14 | Underground space | Converted disused pipework

Brings natural sunlight and lighting into an underground car park: outdoor collectors track the sun in real time for zero-energy green lighting; full-spectrum light inhibits bacteria and mold, reducing dampness and condensation for a clean, dry environment; installed by converting existing disused pipework, combining practicality with landscape appeal.

Xiangman Strawberry Park Meeting Room, Qingdao

PLT6 / SP4 | Tourism • meetings

Light is collected outdoors and projected indoors by twin floodlights that move like "two suns", bringing natural vitality to an enclosed meeting space — meetings, talks and breaks are all immersed in a natural light atmosphere.




Hongdeyuan Mushroom Factory, Qingdao

PLT5 | Morel cultivation

Parans PLT5 natural sunlight systems provide precise daylight for mushroom growth, with precisely controlled temperature, humidity and oxygen, creating ideal conditions for morels, greatly shortening the cultivation cycle and raising annual yield.

GLOBAL CASES • COMMERCIAL OFFICE

International Cases • Commercial Offices

Mankato Commercial Office Project, Minnesota, USA

SP4-24.2 × 3 | 48-core energy fiber | 36 sunlight luminaires





60,000 lm	700 W	58°	State Award
Visible light	Full-spectrum sunlight	Spot projection angle	State Economic Committee award

Case Overview

The Mankato commercial district project in the USA purchased and installed three Parans SP4-24.2 natural sunlight systems, 48-core energy fibers and 36 sunlight luminaires, delivering 60,000 lumens of visible light / 700 W of full-spectrum natural sunlight to offices, meeting rooms, restaurants and entertainment areas. The system fully met the client's expectations; besides zero-carbon green lighting, it gives staff and customers an extraordinary experience, has become a local hotspot, and won that year's State Economic Committee award.

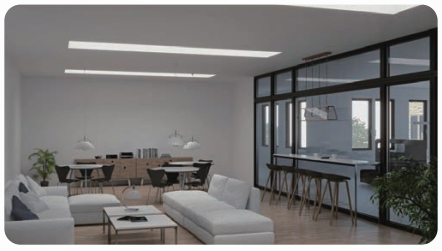
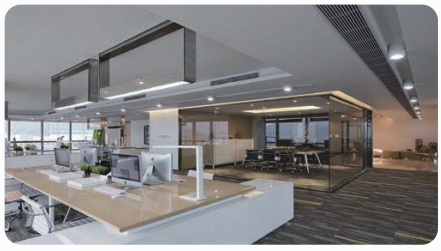
Comment

The project balances general and accent lighting: general lighting is still provided by grille lights with three ordinary LED tubes, while accent lighting comes from a Parans sunlight spotlight projecting at 58° onto staff desks and seats, so employees enjoy the health and joy of sunlight massage while working efficiently.

UJVN Ltd Headquarters Project, Uttarakhand, India

Uttarakhand, India • 36-storey headquarters

SP4-40.2 × 5 | 400-core energy fiber | Smart hybrid luminaires

250,000 lm	2600 W	~1,000 m²	10,000 kWh/yr
Visible-light output	Full-spectrum power	Illuminated area	Electricity saved

Project Overview

UJVN is India's earliest and largest hydropower company, long committed to sustainable energy development. Its 36-storey headquarters has many rooms without sunlight, leaving a share of employees low in mood or suffering from depression. To improve the working environment the company installed five SP4-40.2 natural sunlight systems and 400-core energy fibers, outputting 250,000 lumens of visible light / 2,600 W of full-spectrum solar radiation power over about 1,000 square meters and saving 10,000 kWh of electricity a year. Employees widely report that the sunlight is warm and comfortable, with clearly higher efficiency and a more positive mood; when sunlight is insufficient, LEDs top up automatically to keep indoor illuminance constant.

Comment

Parans natural sunlight systems create a warm, sunlit living environment that no electric light source can match.

GLOBAL CASES • PUBLIC FACILITIES

International Cases • Public Facilities

Rijnlands Tunnel Lighting Project, Netherlands

SP4-40.2 × 80 | Contract over €1.69M | Overall energy saving 80%+





Project Overview

Parans supplied and installed 80 SP4-40.2 natural sunlight lighting systems worth over €1.69 million for the Rijnlands Tunnel lighting project in the Netherlands. The project has been completed and accepted, with an overall energy saving of over 80%. Both tunnel entrances use zero-carbon natural sunlight; nearly a hundred systems bring outdoor sunlight into the tunnel in an unprecedented way, minimizing the "black hole" effect and ensuring the best road traffic safety. The project won the Innovative Design Challenge award in the Dutch national competition.

DEWA Headquarters Project, Dubai, UAE

SP4-40.2 | Reception hall natural sunlight lighting



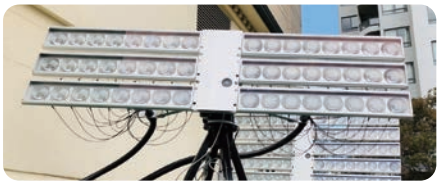


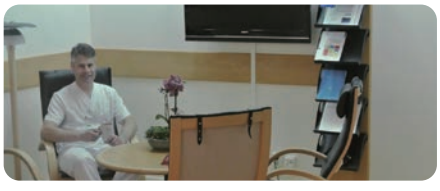
Project Overview

Dubai's DEWA headquarters purchased and installed a Parans SP4-40.2 sunlight system for natural sunlight lighting of its reception hall.

Helsingborg Hospital Project, Sweden

SP4-40.2 + SP4-24.2 | Clinics • operating rooms • corridors





Project Overview

Helsingborg Hospital installed one SP4-40.2 and one SP4-24.2 Parans sunlight system, bringing natural sunlight into clinics, operating rooms and corridors and giving doctors and patients a completely different, warm feeling.

> "It feels wonderful! We enjoy the natural sunlight that passes through the Parans system. It gives us a clear connection with the outside world. When it's sunny we can almost set the clock by the changing light — a big boost to emotional well-being."
> — **Lennart Sandhall, Chief Physician, Helsingborg Hospital, Sweden**

GLOBAL CASES • RESIDENTIAL

International Cases • Residential & Apartments

Rental Apartment Project, Seattle, USA

Helios Mini | Rooftop terrace | Corridor • lounge • gym

A Seattle rental apartment adopted the Parans Helios mini natural sunlight system, with the collector on the rooftop terrace and fiber guiding sunlight into windowless corridors, shared lounges and the fitness area. This effectively improves natural lighting in common areas, raises living comfort and health experience, and strengthens the apartment's rental competitiveness and property value.





Installation Notes

No suitable mount was available on site, so a dedicated bracket was built to keep the unit stable and unshaded.

Multi-Storey Apartment, Barcelona, Spain

Helios Mini | South balcony

Project Overview

In an apartment building in Barcelona's Eixample district, the Helios collector sits directly on a south-facing balcony and brings natural sunlight into the living room and interior corridor, effectively fixing the lack of daylight inside and bringing healthy, comfortable natural lighting to the home.





Installation Notes

The collector sits directly on the balcony floor; the uneven floor is leveled with wooden boards. Ready to use, flexible, and can be stored or moved at any time.

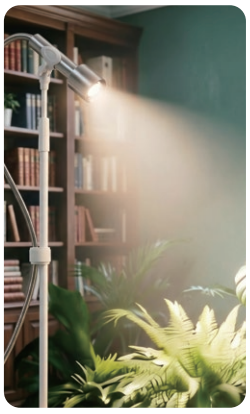
Villa in Phoenix, Arizona, USA

Helios Mini System | Floor spotlight on plants

Project Overview

A villa installed one Helios mini daylight system: natural sunlight is captured and concentrated, guided indoors by fiber, then cast by a floor spotlight onto the leaves of green plants, promoting photosynthesis, absorbing indoor CO_2, and producing fresh oxygen and negative ions to purify indoor air naturally. Helios is ready to use with no fixing required; the floor spotlight's position, direction and angle (DIY) and spot size are freely adjustable, and sunlight power can be set from 0.5 to 5× sunlight. It can sit on a flat floor or balcony, or be fixed to a sunny wall or roof.

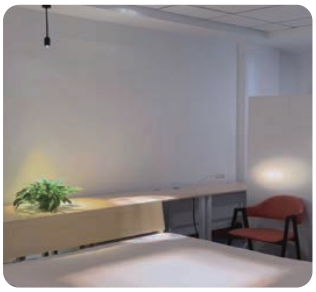




> "Since installing Parans Helios, our indoor plants are livelier, the air is fresh and pleasant, and the whole space feels full of natural sunlight."
> — **John Parsey, homeowner**

MORE CASES • CASE WALL

More Cases & the Global Case Wall




Bed Sunbathing in a Seniors' Apartment, Auckland, NZ

SP4-40.2 × 2 | 80 apartments / beds

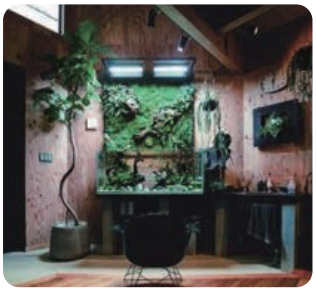
So that seniors can sunbathe in bed even on sunny days, the design uses two SP4-40.2 systems, with one sunlight luminaire and two fibers per bed, projecting 2,000 lumens of visible light / 20 W of full-spectrum sunlight onto an area of 1 square meter for sunlight massage — immobile seniors enjoy sunbathing without leaving their rooms.




Kindergarten, New South Wales, Australia

SP4 Series | Meets daylight-level regulations

The kindergarten is surrounded by large office and residential buildings, so natural light is very limited and daylight-level legislation must be met. After installing the Parans system, natural sunlight enters the building and children learn under it; their interest and efficiency in learning rose markedly, and parents gave high praise.




Silicon Valley Sunshine Hotel, India

SP4-40.2 × 2 | 50 landscape plants

Two SP4-40.2 units supply natural sunlight to 50 landscape plants and promote photosynthesis, producing about 5,000 liters of oxygen and cutting about 5,000 liters of carbon a day and removing hundreds of harmful gases, making the whole hotel a zero-carbon, ecologically balanced system — a true oxygen-bar hotel.




Environment Upgrade at IMPULSE Fitness Club

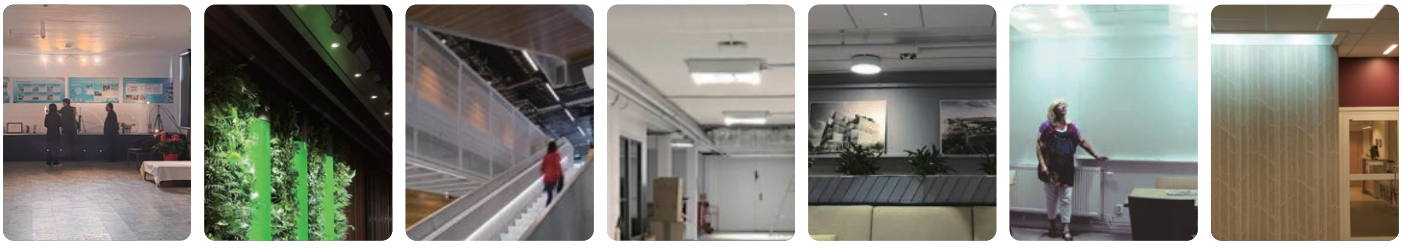
Sunlight + Ecology

Sunlight is projected onto the gym's treadmills so people can bathe in outdoor-like natural sunlight while running; projected onto indoor plants, photosynthesis markedly improves air quality and replenishes plenty of fresh air and negative oxygen ions.

Global Case Wall

500+ cases completed, covering commercial, healthcare, education, elder care, public buildings, underground spaces and agriculture





COOPERATION

Partner Advantages & Global Network

Parans is committed to working with partners — driving green development through innovation and creating a healthy future with light.

1 Technical Strength

More than ten years focused on natural-light transmission, with a complete R&D system covering optical design, fiber transmission and intelligent control; 16 patent applications to date, including 2 invention patents, keeping our technology at the forefront of the industry.

2 Manufacturing Advantage

Dedicated workshops for optical components and complete-unit assembly, with annual capacity of over 2,000 sets; products are exported in volume to Europe, America, the Middle East and Southeast Asia to meet varied building environments.

3 Quality Assurance

ISO quality management is strictly implemented, with precision inspection from lens coating to fiber assembly; every sunlight system is tested in multiple dimensions to ensure high efficiency, high stability and long life.

4 Customization

Full-scenario customized sunlight solutions, tailored to building structure, lighting needs and aesthetic standards, so sunlight can truly flow deep into buildings.

5 Professional After-Sales Service

A complete after-sales system offering installation guidance, remote monitoring and maintenance, with professional, efficient and attentive end-to-end support.

50+ countries and regions

Sales and service cover the globe — Europe, the Middle East, North America, Oceania, Asia and more

Asia	China • Taiwan, China • South Korea • Japan • India • Pakistan • Uzbekistan • Indonesia
Europe	Sweden • UK • Germany • Netherlands • Spain • Italy • Slovenia • Czechia • Romania • Greece • Türkiye
Middle East	Israel • UAE (Dubai)
North America	USA • Canada
Oceania	Australia • New Zealand
South America	Brazil • Chile
Africa	South Africa

* Selected countries and regions

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