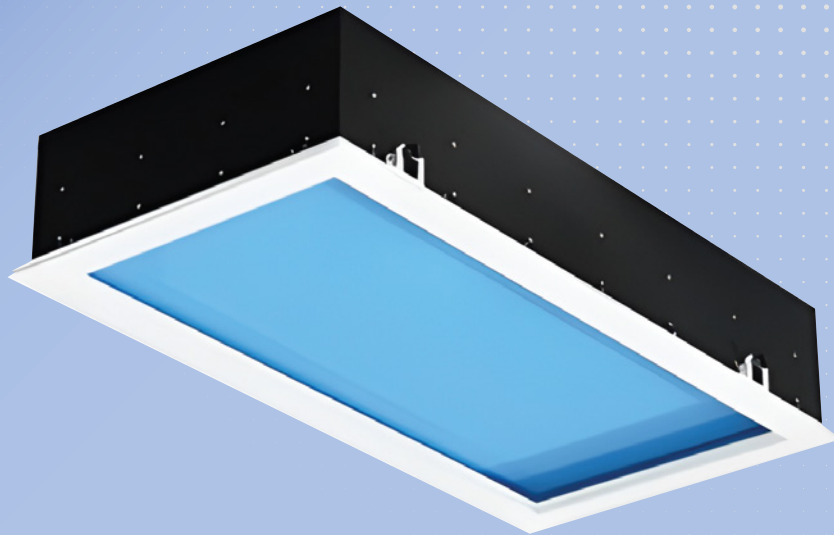


LEDOS

LIGHTING SOLUTIONS



VISTARAY

LED ARTIFICIAL SKYLIGHT

01

WHY IS THE SKY BLUE?

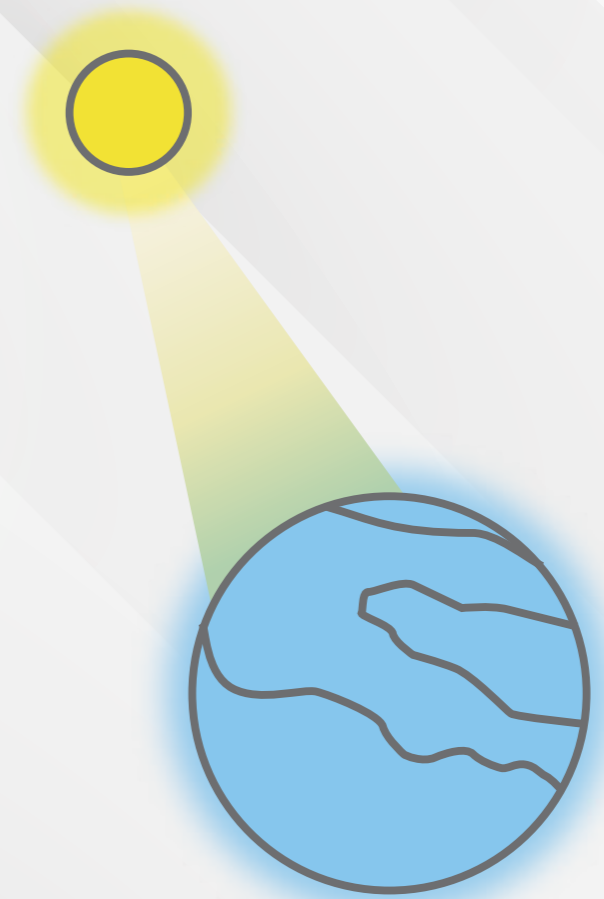
The sky looks blue because of a process called Rayleigh scattering. Sunlight, though it appears white, is actually made up of many colors, each with different wavelengths. When sunlight enters our atmosphere, tiny air molecules scatter the light in all directions.

The shorter wavelengths, like blue and violet, scatter much more than the longer wavelengths (red and orange) & since our eyes are not very sensitive to violet and some of it gets absorbed in the upper atmosphere, the blue light dominates what we see, making the sky appear blue during the day.

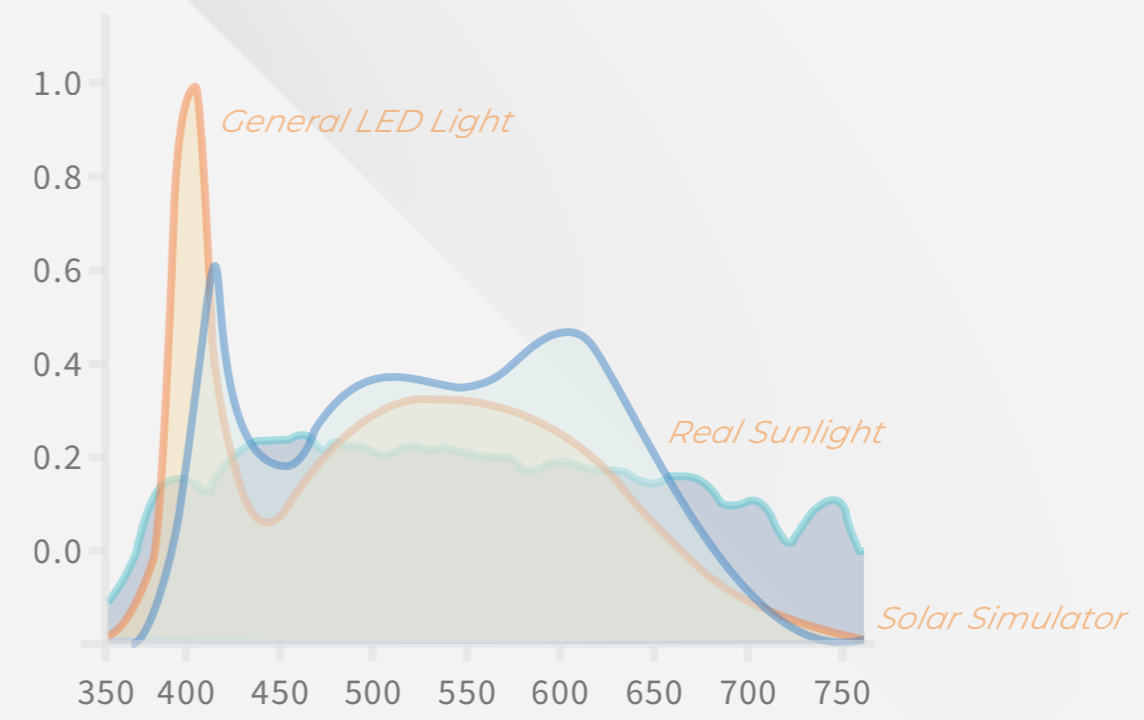
WHY IS THE SKY RED IN THE MORNING AND EVENING?

At sunrise and sunset, sunlight travels through more of the atmosphere, which scatters away most of the blue light and allows the longer wavelengths like red and orange to reach us, giving the sky its warm colors.

With the latest technology, VistaRay Artificial LED Skylights can closely replicate the light spectrum. Additionally, by incorporating different light sources and IoT Smart functionality to add a slight sense of warmth. The lighting replicates the feeling of sunlight entering indoors in terms of illuminance and angle, thus providing a more natural experience.



COMPARISON OF LIGHT SPECTRUM



02

SUNLIGHT AND HEALTH

Although we spend most of our time indoors, we are still “outdoor animals”

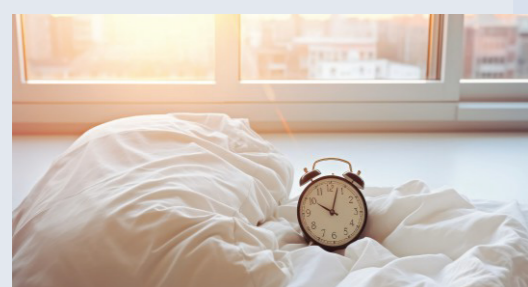
~Baker N, 2009



01

SUNLIGHT IS GOOD FOR VISUAL HEALTH

Human vision is formed in sunlight environments. Sunlight has the richest spectrum & the highest CRI, which is beneficial to human health.



02

SUNLIGHT IS GOOD FOR PHYSICAL HEALTH

The cyclical changes of sunlight from the human body's biological clock, which influences various physiological processes such as hormone secretion & metabolism etc.



03

SUNLIGHT IS GOOD FOR MENTAL HEALTH

Sunlight not only provides people with brightness & warmth but also represents a positive & optimistic attitude towards life.

LIGHT AND HEALTH

HOW IS LIGHT PERCEIVED

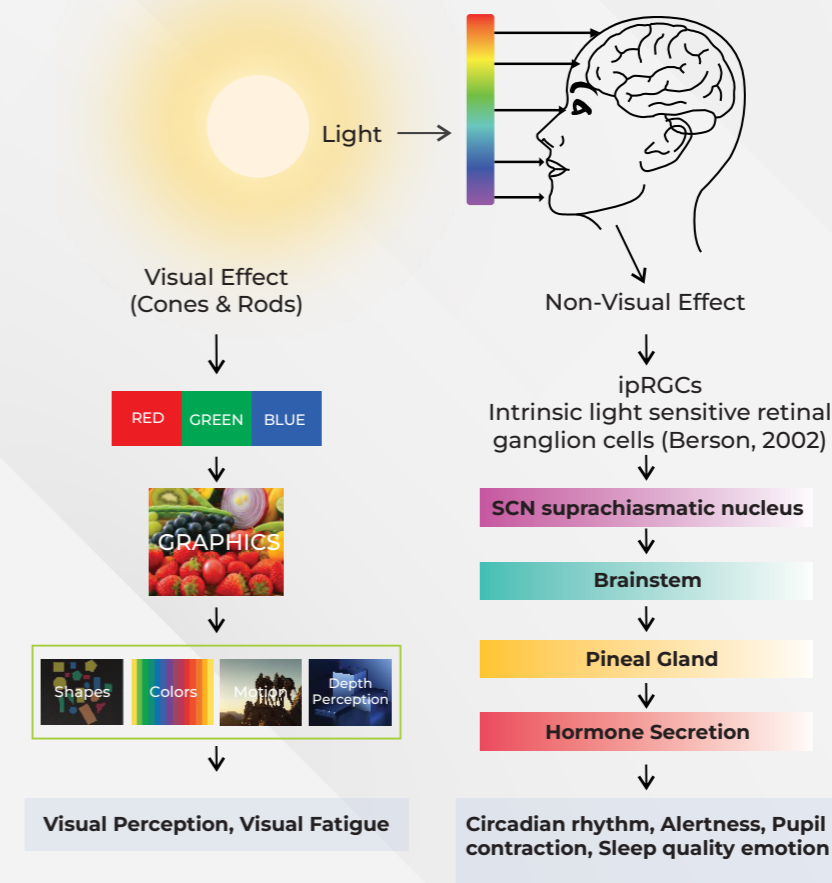
Visual Effects:

Light → Retina → Optic Chiasm → Lateral Geniculate Nucleus → Visual Cortex

Physiological Effects:

Light → Retina → Optic Chiasm → Hypothalamus → Suprachiasmatic Nucleus → Pineal Gland → Melatonin Hormone secretion → Circadian Rhythm

Cones are responsible for vision, producing the visual effects of light. Rod cells control of human circadian rhythms and produce non-visual effects of light.



In 2002, David Berson of Brown University. Berson et al Experimental studies have confirmed the presence of mammalian retinas A third type of photoreceptor cell exist _ Intrinsic Photosensitive retinal ganglion cell (ipRGCS)

*Sufficient sunlight can affect the secretion of melatonin, dopamine and other hormones, promote photoreceptors to respond to light simulation and effectively relieve depression & anxiety.

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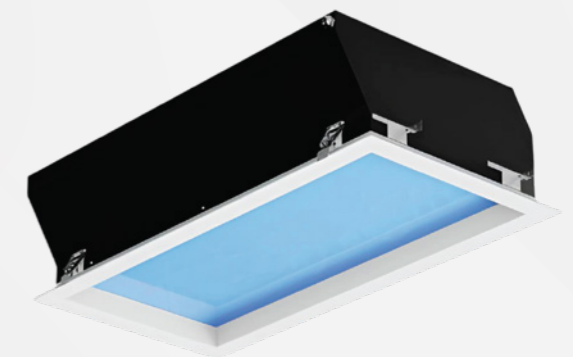
**ASYMETRIC BEAM
VISTARAY D**



300 x 300

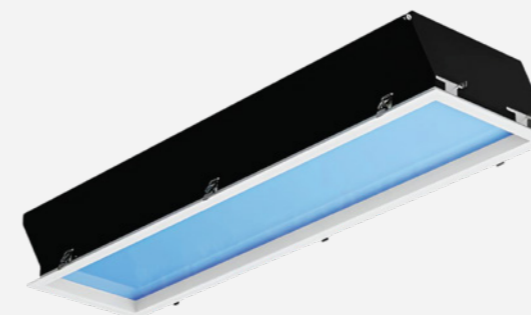
Luminous Flux	>1000 lm
Power	25 W
Installation	Recessed/Integrated Ceiling
Voltage	100 - 240 V
Control	Mesh 5.0 / DALI / 0-10V
Color Temp	2100K ~ 7800K (Tunable)
CRI	93 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Net Weight	1.7 KG
Dimension (mm)	L300 x W300 x H150
Cutout Size (mm)	L285 x W285
Sky Size (mm)	L244 x W244

Luminous Flux	>2000 lm
Power	50 W
Installation	Recessed/Integrated Ceiling
Voltage	100 - 240 V
Control	Mesh 5.0 / DALI / 0-10V
Color Temp	2100K ~ 7800K (Tunable)
CRI	93 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Net Weight	3.0 KG
Dimension (mm)	L600 x W300 x H150
Cutout Size (mm)	L585 x W285
Sky Size (mm)	L544 x W244

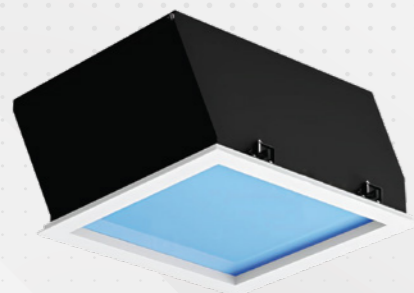


300 x 600

Luminous Flux	>4000 lm
Power	100 W
Installation	Recessed
Voltage	100 - 240 V
Control	Mesh 5.0 / DALI / 0-10V
Color Temp	2100K ~ 7800K (Tunable)
CRI	93 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Net Weight	6.2 KG
Dimension (mm)	L1200 x W300 x H150
Cutout Size (mm)	L1185 x W285
Sky Size (mm)	L1144 x W244

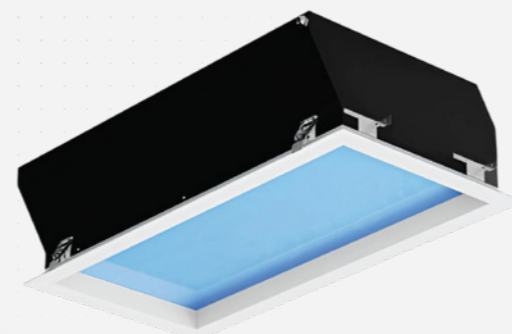


300 x 1200



600 x 600

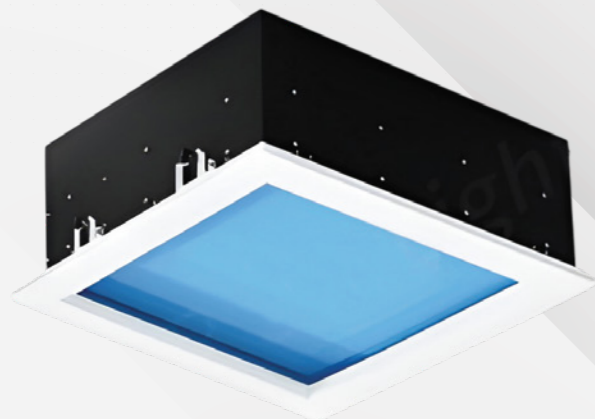
Luminous Flux	>3000 lm
Power	75 W
Installation	Recessed
Voltage	100 - 240 V
Control	Mesh 5.0 / DALI / 0-10V
Color Temp	2100K ~ 7800K (Tunable)
CRI	93 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Net Weight	9.0 KG
Dimension (mm)	L600 x W600 x H295
Cutout Size (mm)	L585 x W585
Sky Size (mm)	L500 x W500



600 x 1200

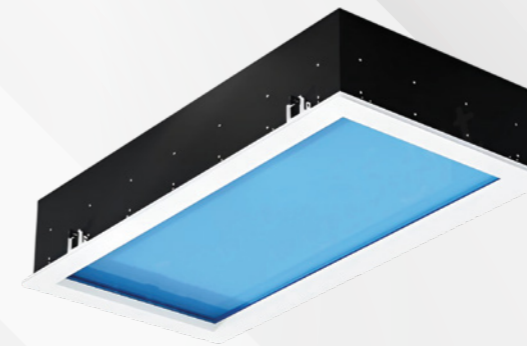
Luminous Flux	>6000 lm
Power	150 W
Installation	Recessed/Integrated Ceiling
Voltage	100 - 240 V
Control	Mesh 5.0 / DALI / 0-10V
Color Temp	2100K ~ 7800K (Tunable)
CRI	93 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Net Weight	11.2 KG
Dimension (mm)	L1200 x W600 x H295
Cutout Size (mm)	L1185 x W585
Sky Size (mm)	L1100 x W500

**VERTICAL BEAM
VISTARAY E**



600 x 600

Luminous Flux	>5000 lm
Power	150 W
Installation	Recessed/Suspended
Voltage	100 - 240 V
Control	Mesh 5.0 / DALI / 0-10V
Color Temp	2100K ~ 7500K (Tunable)
CRI	95 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Net Weight	12.6 KG
Dimension (mm)	L600 x W600 x H220
Cutout Size (mm)	L585 x W585
Sky Size (mm)	L500 x W500



600 x 1200

Luminous Flux	>5000 lm
Power	150 W
Installation	Recessed/Suspended
Voltage	100 - 240 V
Control	Mesh 5.0 / DALI / 0-10V
Color Temp	2100K ~ 7500K (Tunable)
CRI	95 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Net Weight	10.3 KG
Dimension (mm)	Ø600 x H219
Cutout Size (mm)	Ø585
Sky Size (mm)	Ø500



R300



R600

Luminous Flux	>15000 lm
Power	500 W
Installation	Recessed/Suspended
Voltage	100 - 240 V
Control	Mesh 5.0 / DALI / 0-10V
Color Temp	2100K ~ 7500K (Tunable)
CRI	95 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Net Weight	36.5 KG
Dimension (mm)	Ø1200 x H220
Cutout Size (mm)	Ø1185
Sky Size (mm)	Ø1100

Luminous Flux	>10000 lm
Power	300 W
Installation	Recessed/Suspended
Voltage	100 - 240 V
Control	Mesh 5.0 / DALI / 0-10V
Color Temp	2100K ~ 7500K (Tunable)
CRI	95 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Net Weight	23.1 KG
Dimension (mm)	L1200 x W600 x H220
Cutout Size (mm)	L1185 x W585
Sky Size (mm)	L1100 x W500



**SUN OPTICS
VISTARAY T**



R300

Luminous Flux	>20000 lm
Power	500 W
Control	0 - 10 V
Color Temperature	6500K
Projection Distance	>30 m
Installation	Recessed Suspended
Color Temperature	100 - 240 V
CRI	95 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Net Weight	18 KG
Dimension (mm)	∅600 x H380
Cutout Size (mm)	∅585
Sky Size (mm)	∅500



R600

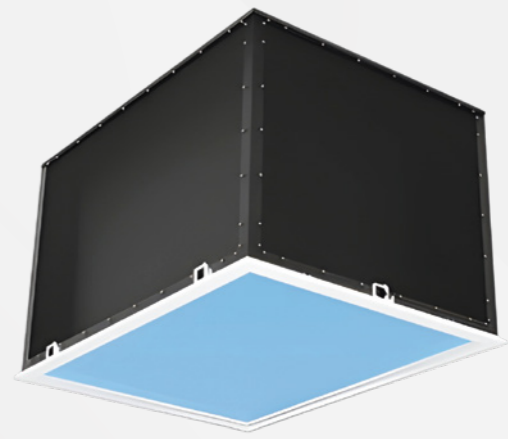
Luminous Flux	>20000 lm
Power	600 W
Control	0 - 10 V
Color Temperature	6500K
Projection Distance	>30 m
Installation	Recessed Suspended
Color Temperature	100 - 240 V
CRI	95 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Net Weight	39.8 KG
Dimension (mm)	∅1200 x H680
Cutout Size (mm)	∅1185
Sky Size (mm)	∅1100



600 x 600

Luminous Flux	>20000 lm
Power	600 W
Control	0 - 10 V
Color Temperature	6500K
Projection Distance	>30 m
Installation	Recessed Suspended
Color Temperature	100 - 240 V
CRI	95 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Net Weight	55 KG
Dimension (mm)	L1240 x W940 x H1100
Cutout Size (mm)	L1225 x W925
Sky Size (mm)	L1140 x W840

Luminous Flux	>20000 lm
Power	500 W
Control	0 - 10 V
Color Temperature	6500K
Projection Distance	>30 m
Installation	Recessed Suspended
Color Temperature	100 - 240 V
CRI	95 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Net Weight	22.45 KG
Dimension (mm)	L600 x W600 x H600
Cutout Size (mm)	L585 x W585
Sky Size (mm)	L500 x W500

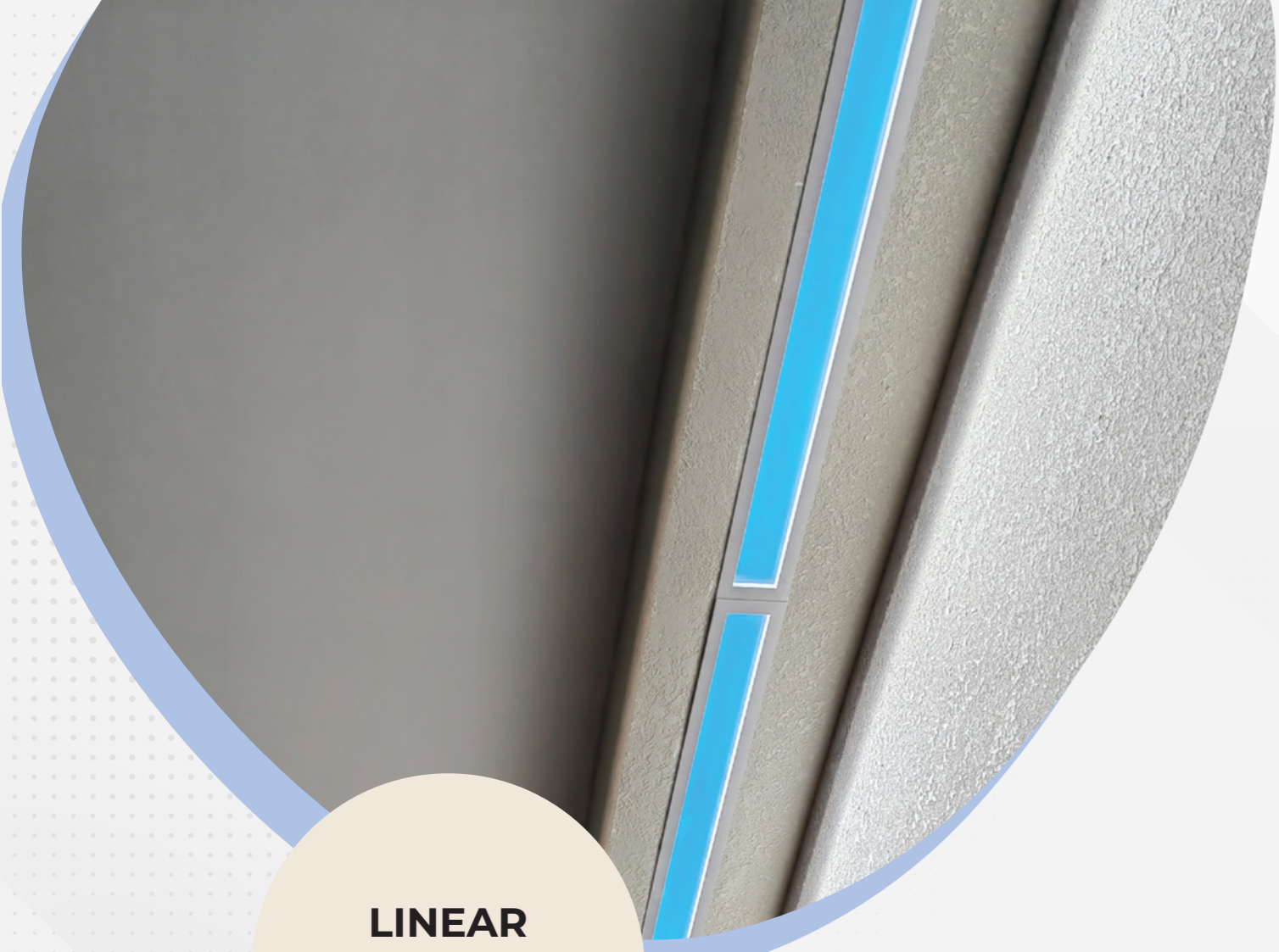


940 x 1240

Luminous Flux	>3000 lm
Power	120 W
Control	Mesh 5.0
Color Temperature	2700K ~ 6500K (Tunable)
Projection Distance	4 m
Installation	Recessed Suspended
Color Temperature	100 - 240 V
CRI	95 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Net Weight	11.8 KG
Dimension (mm)	∅600 x H380
Cutout Size (mm)	∅585
Sky Size (mm)	∅500



R300S



**LINEAR
WALLWASHER
VISTARAY L**

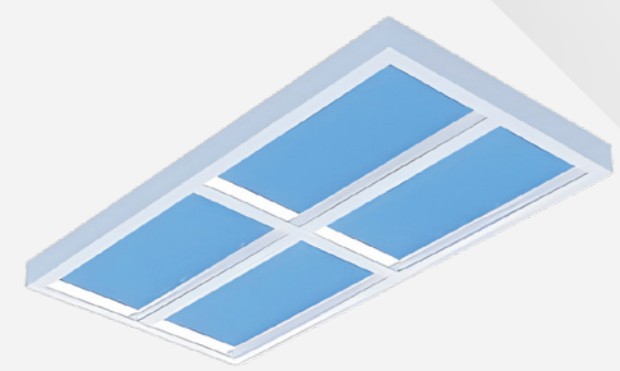


140 x 1150

Luminous Flux	>2000 lm
Power	50 W
Installation	Recessed
Voltage	220 V
Control	Mesh 5.0 / DALI / 0-10V
Color Temp	2100K - 7800K (Tunable)
CRI	93 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Net Weight	3.6 KG
Dimension (mm)	L1150 x W140 x H86
Cutout Size (mm)	L1135 x W125
Sky Size (mm)	L1096 x W86



**SKY OPTICS
SURFACE
VISTARAY PL**



PL

Luminous Flux	>10000 lm
Power	160 W
Installation	Ceiling Mounted
Voltage	100 - 240 V
Control	Mesh 5.0 / DALI / 0-10V
Color Temp	2100K - 7500K (Tunable)
Color	White
CRI	95 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Net Weight	29.8 KG
Dimension (MM)	L1236 x W636 x H70
Sky Size (MM)	4 x (L527 x W227)

**SKY OPTICS
VISTARAY PT**



300 x 600

Installation	Recessed Suspended System
Luminous Flux	>2500 lm
Power	40 W
Voltage	100-240 V
Color Temperature	2100K - 7500K (Tunable)
Control	Mesh5.0 / DALI / 0-10 V
Frame Color	White
CRI	93 Ra
Lumen Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Dimension (mm)	L582 x W282 x H36
Sky Size (mm)	L 527 x W227
Net Weight	2.84 KG
Cutout Size (mm)	To be used with in conjunction with Keel system

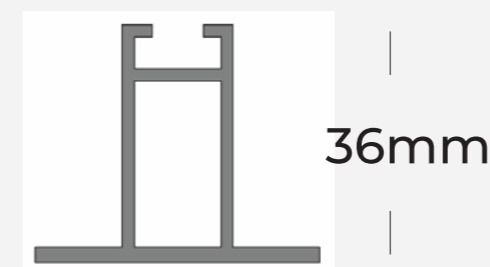


600 x600

Installation	Recessed Suspended System
Luminous Flux	>8000 lm
Power	100 W
Voltage	100-240 V
Color Temperature	2100K - 7500K (Tunable)
Control	Mesh5.0 / DALI / 0-10 V
Frame Color	White
CRI	93 Ra
Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS
Dimension (MM)	L582 x W1182 x H36
Sky Size (MM)	L 1127 x W527
Net Weight	8 Kg
Cutout Size (MM)	To be used in conjunction with Keel system



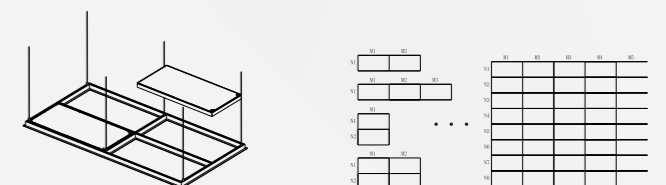
600 x 1200



T-KEEL

Installation Recessed

The maximum custom size of keel is 2.4 x 3.0 m, The number of combined assembly is 2 ~ 40 sets





**SHOWER SPECIFIC
VISTARAY F**



300 x 900

Illumination Parameter

Power	50 W
Electric Current	1.2 A
Voltage	220 V
Control	Tuya
Color Temp	2100K - 7800K
Voltage	220 V
CRI	93 Ra
Lifespan	30,000 hrs.
Certificate	CCC, CE, RoHS

Product Installation

Installation	Recessed/Integrated Ceiling
Net Weight	7.5 KG
Dimension (mm)	L900 x W300 x H150
Cutout Size (mm)	L885 x W285
Sky Size (mm)	L544 x W244

Ventilation Parameter

Ventilation	Centrifugal
Power	40 W
Ventilation Volume	140 m ³ /h
Wind Noise	48 db
Rotor Speed	1200 ± 50
Motor Type	Copper - Double ball motor

Heating Parameter

Heating	Ceramic PTC air heating
Power	2600 W
Wind Speed	5.2 m/s
Wind Noise	50 db
Rotor Speed	1200 ± 50
Motor Type	Copper - Double ball motor



P-22X

**ULTRA THIN
VISTARAY PX**



Luminous Flux	>10000 lm
Power	160 W
Installation	Sunken/Wall-Mounted
Voltage	100-240 V
Control	Mesh5.0/Dali/0-10V
Color Temp	2100-7500K
Color	White
CRI	95 Ra
Lifespan	15000 H
Certificate	CCC CE ROHS
Net Weight	69.6 KG
Dimension (mm)	L1332*W781*H66
Sky Size (mm)	4*(L527*W227)

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LEDOSLIGHTING.COM