Offering environmental and energy conservation using our unique production technologies

Eco-friendly LED lights

Features

- Overwhelming brightness and excellent energy conservation are achieved by combining our unique production technologies and optical system.
- Our technology reduces air conditioning load and improves air conditioning efficiency through the effect of radiation design.
- The LED lights are produced through low-cost operations that can be realized in the integrated production inside our factory.

Overview (Technical principles, actions, etc.)

LED Light SUND Series

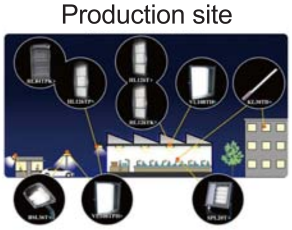
Attractiveness of our LED light is its overwhelming brightness, widerange of illumination, energy efficiency and simple design with originality which are produced by combining unique production technologies and an optical system maxmizing the performance of LED lights made by Nichia Corporation in the pursuit of brightness, in addition to its basic functions as a light.

Strengths of the SUND Series

This is a low-cost Made-in-Tokushima, Japan product which is produced in an integrated production system covering everything from design and development to the completion and shipping of the product by fully utilizing the company facilities. The heat insulation of the equipment, including the electronic components, enables high quality, a long service life and high energy efficiency resulting from the effect of the radiation design constructed based on our unique theories.

We developed illumination simulation software that is used as a reference for brightness. We respond to the requests of our customers based on actually measured illumination data, assist in the selection of equipment suitable for a location and offer illumination simulation. We provide reliability and peace of mind created by our advanced ability to make suggestions and customize equipment for our customers.

Production site



Distribution warehouse

Gas station

Residential area, etc.

Introductory Track Record

Installation is expanding to all of Japan

Soccer field

Distribution center

Gas station

Warehouse

Started exports to the Philippines (August 2013 -) Base light (the KL series) 2,600 lights in total

Base light (KL series) indirect light

Comparison of economic effect

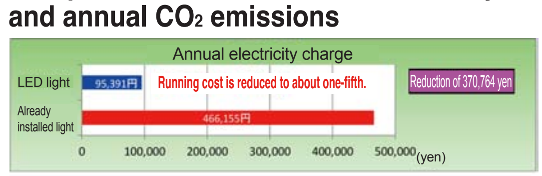
(Comparison between a new installation of 400W mercury-vapor light and SUND-VL90TH)

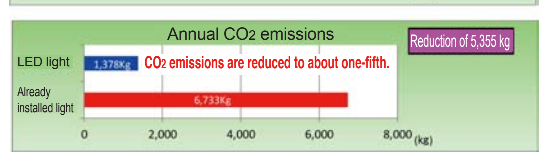
When the light is on for 4,000 hours annually (356 days x about 11 hours)

	Already installed light	LED light	Difference
Item number	400 W mercury-vapor light	VL90TH	
Number of installed lights (unit)	10	10	
Unit price of a product (yen)	5,850	149,800	143,950
Annual illumination hour (hour)	4,015	4,015	
Initial cost (yen)	58,500	1,498,000	1,439,500
Electricity consumption (W)※including stabilizer	430	88	−342
Annual electricity consumption (kwh)	17,265	3,533	80% reduction
Annual electricity charge (yen)	466,155	95,391	−370,764
Service life of lamp (hour)	12,000	50,000	
Replacement frequency (year)	3	13	
Annual CO_2 emissions (kg)	6,733	1,378	−5,355

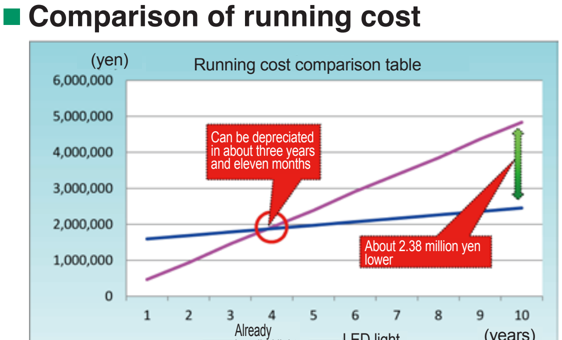
※The amount of CO_2 emissions is obtained by multiplying the electricity consumption by the emission coefficient, 0.39 kg - CO_2/kwh.
※The calculation of the electricity charge is based on the approximate unit price of electricity cost, which is 27 yen/kwh (with tax).

Comparison between annual electricity charge and annual CO_2 emissions





Comparison of running cost



Applicable field
Lighting filed (with environment maintenance and energy saving considered) Companies, local governments, financial institutions, medical institutions, game arcades, general merchandising stores, convenience stores, etc.
Water
Energy
Energy saving/Energy recovery
Energy storage/Energy creation
New energy
Waste disposal/Recycling/Resource saving
Air
Soil
Other

Sun Electronics Industry Ltd.
Business Division
53-4 Homi, Tomiyoshi, Aizumicho, Itano-gun, Tokushima 771-1232
SUND Search
● TEL / +81-88-692-8581 ● FAX / +81-88-692-4383 ● E-Mail / t_bandoh@sund.co.jp ● http://www.sund.co.jp/