

PATLITE®

IP69K Rated Product Digest Catalog



7
colors

RoHS
10

CE

c **UL** us

K

UK
CA

www.patlite.com

PATLITE Product Features

Water-Resistant

Our high-quality products are versatile, capable of withstanding use in various environments, and is also resistant to water wash.

Withstand high water jet

Dust-Resistant

Our high-quality products, designed for use even in the harshest environments, superior dust-proof capabilities and offer flexibility in various installation locations.

Dustproof structure

Globally Applicable

We ensure product reliability via excellent quality control and by acquiring diverse safety certifications.

Compatible with various standards including CE UL UKCA

Protection Rating Explanation

The International Protection grade code (IP) is followed by two numbers, with the first number as the symbol to represent the protection classification for human body and solid foreign matter from a number of 0 to 6; the second number as the symbol to represent the degree of protection against permeation of water as a number from 0 to 9.

IP 			
Code No.	First classification number Protection rating for humans and solid foreign matter	Second classification number Protection rating for water	Supplementary Character
0	No protection	No protection	
1	It is protection against solid foreign matter (a pole, as an example) larger than 50mm or more in diameter.	It protects against water droplets falling vertically.	F Oil-proof type: It is not harmfully affected by contact of oil droplets or oil shavings from any direction.
2	It is protection against solid foreign matter (a finger, as an example) larger than 12.5 mm or more in diameter.	It protects against water droplets falling vertically, even if the product is tilted within a 15 degree angle.	G Oil resistant type: Oil drops and oily grease does not enter inside from any direction.
3	It is protection against solid foreign matter (a tool, as an example) larger than 2.5mm or more in diameter.	It protects against water sprayed from up to a vertical angle of 60 degrees.	
4	It is protection against solid foreign matter (wire, as an example) larger than 1.0 mm or more in diameter.	It protects against water splash from all directions.	
5	Dust-proof type: Although completely preventing dust intrusion is impossible, the amount of dust invasion will not hinder the predetermined operation and safety of the electronic device.	It protects against a water jet stream (sprayed from a nozzle in all directions).	
6	Dust resistant type: dust intrusion is completely prevented.	It protects against a powerful water-jet stream (sprayed from a nozzle in all directions).	
7	* Cautionary Notes The IP rating stands for the grade of dust-proof and waterproof performance of the enclosure by itself. When using our products outdoors, be sure to refer to the product specifications for each product in order to select the appropriate installation location and mounting direction.	It protects against temporarily immersion in water.	
8		It protects against applications used in diving conditions specified by the manufacturer.	

What is IPX9K?

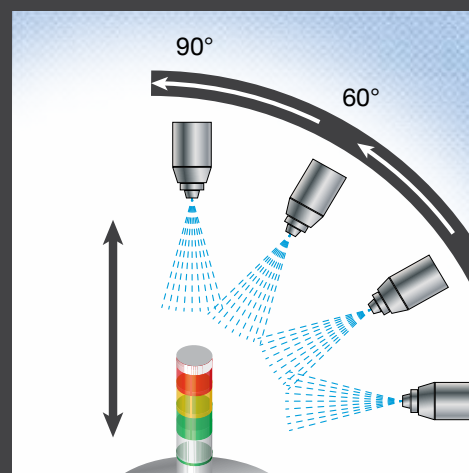
IPX9K is the German DIN 40050 PART9 standard, defined as a protection that is regulated for high-temperature and high-pressurized water. Water is heated up to 80°C and then sprayed at a water pressure in the range of 80 to 100 BARs at 14 to 16 liters per minute towards the test object. The test object is between a distance of 100 to 150 mm from the nozzle and sprayed in all directions at 0, 30, 60, and 90 degrees; then sprayed at a horizontal angle while it is being rotated, all done for a period of 30 seconds without being affected by water penetration.

IP69K Test Video

Signal Beacon
NE+FB295



Signal Tower
LR6+FB295



Signal Tower

LR6+FB295 Series

IP67 IP69K	φ60mm	M12 12 pin	88dB at 1m	Modular Type
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LR10 Series

IP66 IP69K	φ100mm	M12 12 pin	92dB at 1m	Outdoor Use	4 Lighting patterns
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Applications

Detecting and Measuring



Beverage Processing



Outdoor Use



Signal Beacon

LS7-9 Series

IP69K

φ70mm

M12
8 pin

85dB at
1m



NE+FB295 Series

IP67
IP69K

φ56mm

M12
5 pin

7 Colors



▼ See application



■ 7 colors in one unit

Pharmaceutical Equipment



Sealing Package



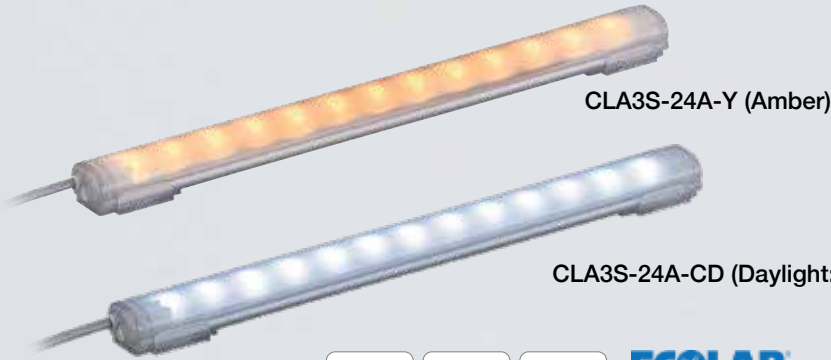
Filling / Packaging Line



LED Light

CLA Series

CLK Series



IP66
IP67
IP69K

6 Size
Variation

IEC62471-2

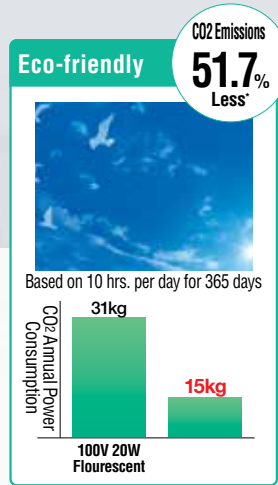
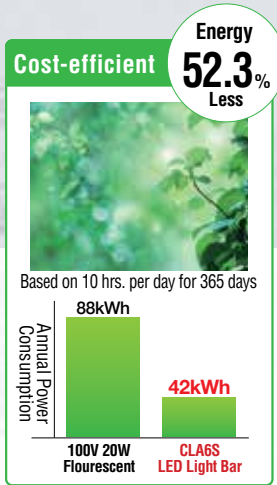
ECOLAB



IP66G
IP67G
IP69K

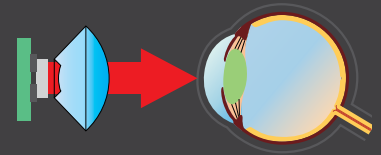
Water
RESISTANT

Oil
RESISTANT



Helps reduce blinding light

- Conventional Lens



The design of the Micro-array Lens conforms to the Photobiological Safety of Lamps and Lamp Systems

* Based on 2008 data accumulated from the Japanese Electric Company (CO₂ Emissions per kWh at 0.355kg)

Applications

Semiconductor Equipment



Inspection Equipment



Machine Tools Work Light



CLN Series



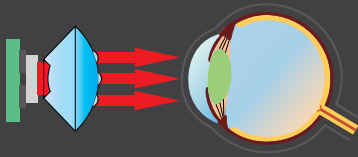
Chemical RESISTANT M12 4 pin 3 Size Variation IEC62471-2



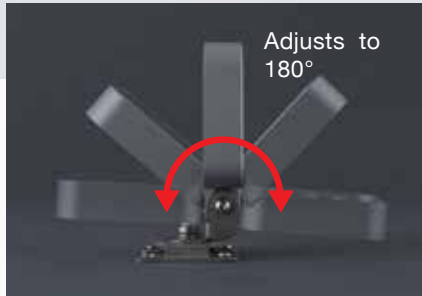
IP66G
IP67G
IP69K Water RESISTANT Oil RESISTANT



• New "Micro-array" Lens



(Compliance: EN62471- 2) in the Exempt Risk Group, which verifies that there is no immediate retina damage.



Adjusts to 180°



Adjusts to 120°

The up/down angle of the body can be adjusted 180°, as well as 120° for left/right angles. It can be folded to a width of 43mm for ease of mounting.

Pharmaceutical Equipment



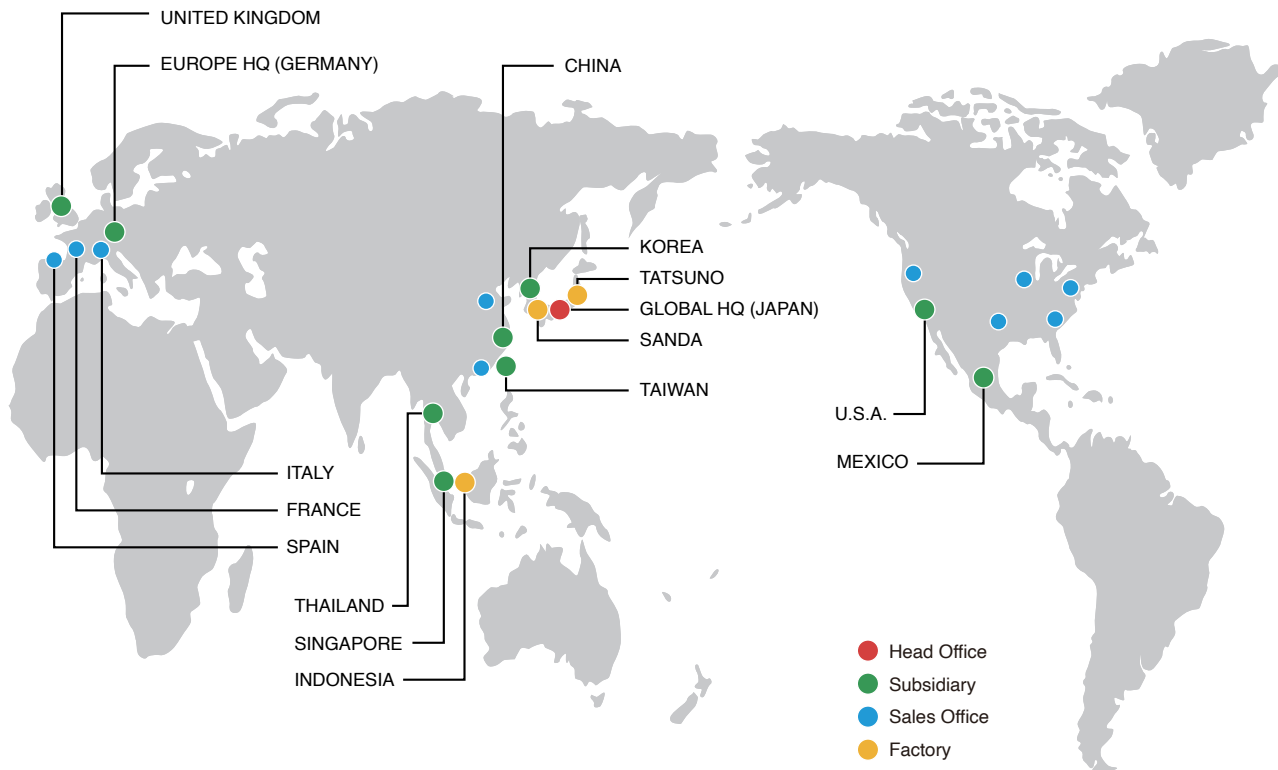
Machine Tools Spot Light



Confectionery Production



PATLITE® Global Network



PATLITE Corporation

www.patlite.com

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⚠ CAUTION

To ensure correct use of these products, read the "Instruction Manual" prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents. Specifications are subject to change without notice.