

# QL

*Induction Lighting*

# 100,000 hours

The lamp you can fit and forget

*Let's make things better.*



**PHILIPS**

# *Working in partnership* to find lighting solutions

All over the world, people are discovering the significant benefits that the revolutionary Philips Lighting QL system can deliver. On the streets and indoors, in both business and public areas, for functional and decorative applications, the long life of QL lamps is providing better lighting solutions, economically.

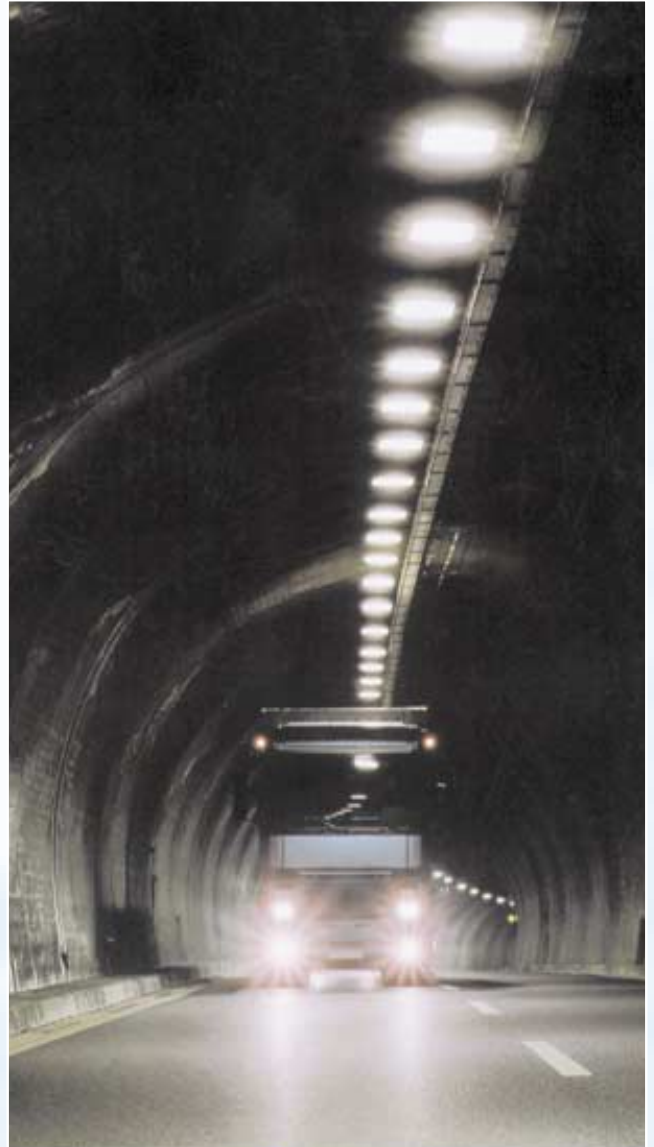
QL is the sort of breakthrough you would expect from Philips Lighting. We have invested consistently and heavily in the research and development of better lighting solutions—solutions that give you more scope, more efficiency, at less cost to you and the environment.

At all stages we work closely with luminaire manufacturers to make sure that the end users get the best possible solutions for their present and future needs. We see it as a three-way partnership between luminaire manufacturers, Philips Lighting and the end user, providing a continuous loop of feedback and product improvements which benefit everyone.

This brochure is designed to tell you more about the QL lamp system and what it offers you. It also contains case studies of the way others have exploited the unique qualities of QL. We hope they will provide you with the ideas and inspiration you need to produce a better solution through lighting.

for more information  
[www.lighting.philips.com](http://www.lighting.philips.com)

# Fit and forget performance



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# Here's why QL Induction Lamps deliver a better lighting solution for your application

QL lamp manufacturer Philips Lighting has worked with a circle of major luminaire manufacturers in developing a comprehensive range of long life lighting solutions for:

- CITY
- RETAIL
- INDUSTRY
- PUBLIC BUILDINGS



## City

Reduced maintenance costs are an important consideration for local authorities when specifying lighting in city areas. At the same time, there is a growing recognition of the importance of lighting in providing an attractive, safe urban environment. QL lighting is increasingly used in urban areas because it meets both cost and aesthetic criteria.



## Industrial

QL's low maintenance costs are an important plus for cost conscious businesses, especially as lighting failures can mean expensive downtime. The flicker free high frequency operation also helps to provide a restful, safe and productive working environment, in offices and production plants. QL is also compatible with video security systems.

## QL induction lighting system: main features and benefits

FEATURE	BENEFIT
Long lifetime (100,000 hours)	<ul style="list-style-type: none"><li>• Minimum maintenance required during lifetime</li></ul>
Compact lamp with high light output (3,500, 6,000, or 12,000 lumen)	<ul style="list-style-type: none"><li>• Design freedom</li></ul>
New generation /80 series colour fluorescent coating	<ul style="list-style-type: none"><li>• White light</li><li>• Choice of color temperatures</li><li>• Very good color rendering</li><li>• No color spread</li></ul>
Electronic HF	<ul style="list-style-type: none"><li>• High independence operation from mains supply; direct DC supply possible</li><li>• No flicker or stroboscopic effect</li></ul>
Instant hot or cold (re-)start (<0.1 s)	<ul style="list-style-type: none"><li>• High comfort, suitable for emergency lighting</li></ul>
Amalgam controlled vapor pressure	<ul style="list-style-type: none"><li>• Constant light output over a wide temperature range</li></ul>



### ▲ Retail

Lamp failure and replacement at peak traffic times can be highly disruptive in a busy retail site. QL provides the essential 'fit and forget' characteristics required, together with exceptional lighting qualities to provide a radiant display area. QL's faithful color rendering, with no color shift over the lamp life, also helps provide a consistent selling environment.

### ◀ Public Buildings

Effectively lit public buildings can transform the appearance of an area and enhance its status as a tourist or business location destination. The compact package of QL lighting provides designers with much greater freedom for creative lighting use, while reducing both energy and maintenance costs.

# QL: lighting technology

QL uses a technology in which high-frequency energy is induced in a low-pressure mercury gas by an induction coil. There are no conventional filaments or electrodes, which are the main lifetime-determining factors in conventional lighting systems.

The QL discharge vessel is internally coated with fluorescent powder in the same way as a TL lamp. The same range of colors can be achieved as with TLD New Generation /80 series lamps, allowing comfortable and effective lighting conditions to be created.

The high frequency at which the QL induction coil operates—2.65 MHz—completely eliminates the flicker which many people find disturbing from most other discharge lamp types. Starting performance of QL is virtually instantaneous both hot and cold, and the light output is obtained within only 0.1 second. Another benefit of QL's high-frequency operation is the absence of stroboscopic effects, which makes QL safe to use in industrial situations involving moving machinery.

Mains voltage fluctuations have no effect on lamp performance: light output varies by no more than 2% over the voltage range 185-255V for systems rated at 230V nominal, and 108-132V for 120V nominal systems.

Lumen efficacy of QL is 70 lm/W, a performance which is comparable to that of TL fluorescent lamps, and over five times higher than that of conventional incandescent lamps.

The minimum operating lifetime expectation of the QL system is 60,000 hours or more, with a statistical failure rate of only around 1% per 4,000 hours. After 60,000 hours the expected mortality rate is less than 10% , with a maximum decline in light output of no more than 30% per system. This performance is many orders of magnitude higher than that of other lighting systems, and will offer QL users big savings in the costs of maintenance and regular lamp replacement.

## QL range Lamp specifications

	QL 55W	QL 85W	QL 165W
Lumen output	3,500	6,000	12,000
Bulb Ø / length (mm)	85/140	111/180	130/210
Lamp base	Click Base		Bayonet
Color temperature	/827*, /830, /840		/830, /840
Lifetime (50% survivals)	100,000 hours		

\*Not available in North America

# Long Life Quality Lighting from

QL SYSTEMS OFFERS A UNIQUE SET OF BENEFITS:

- Long lamp life
- A choice of warm to cool white light providing faithful colour reproduction
- Flicker-free light
- Wide range of operating temperature



*“ Comet’s new destination store needed high levels of illumination with a cool white temperature. We also had to have lights with fast starting instant restrike and above all, we had to have a long lamp life to give us maximum maintenance economy”*

STEVE LIVESEY

CONSTRUCTION AND FACILITIES CONTROLLER, COMET, UNITED KINGDOM

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