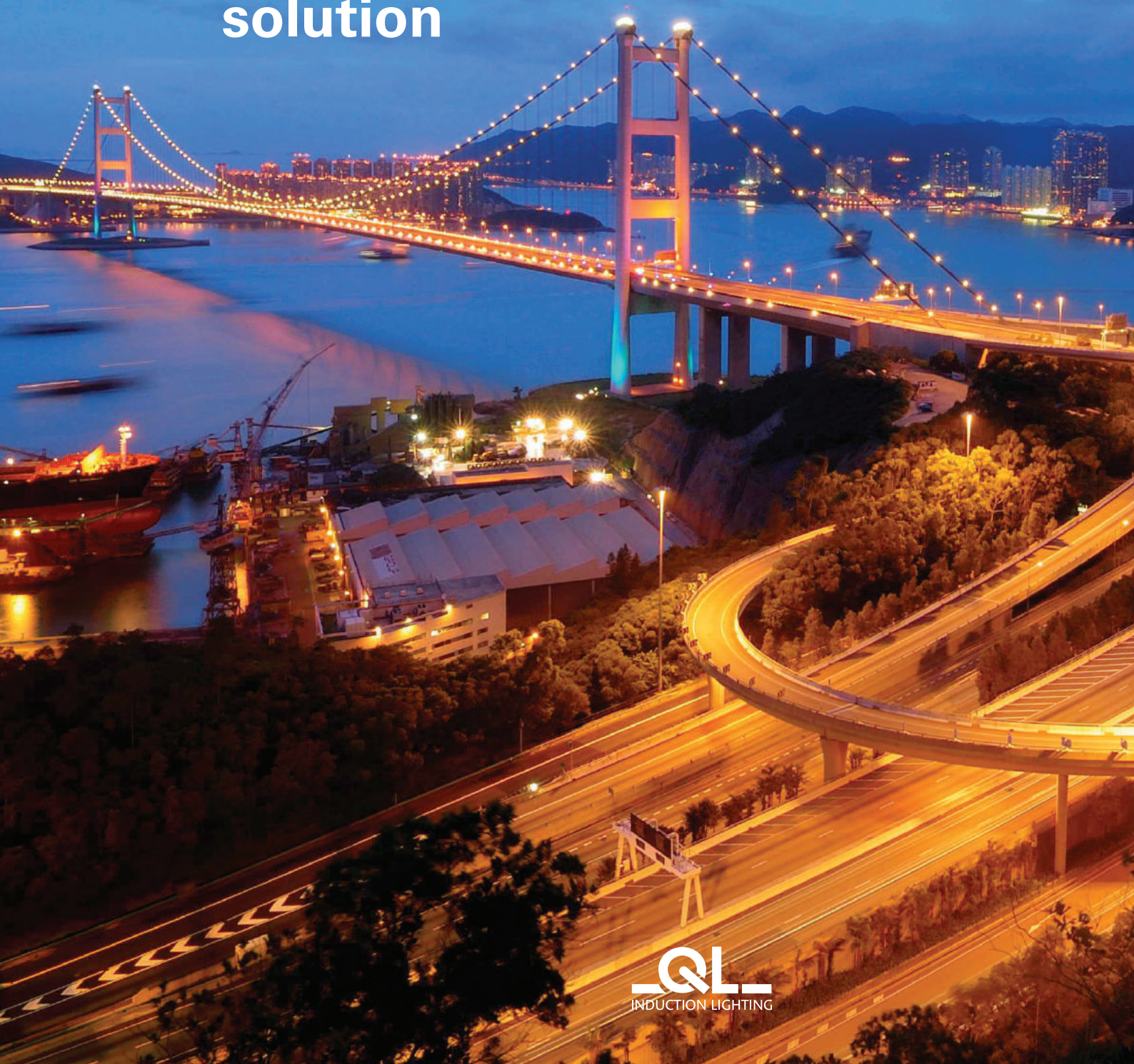


# The most sustainable lighting solution



## QL Induction Lighting Systems

QL induction lighting is used for professional, general and special lighting applications because of its unmatched durability and high luminous efficacy with excellent light quality. QL offers a nearly maintenance free operation and superior energy saving. Induction lamps have a unique long performance life up to 100,000 hours because there is no use of electrodes in the bulb. The lifetime of the system is determined at 80,000 hours, which equals approximately 20 years based on 4000 burning hours per year.

The major features of QL lamp systems, and their related benefits for the user, are:

### Benefits

- Easy installation
- Good color rendering (Ra > 80) and choice of color temperature
- Useful light immediately after switch on
- Easy to use as retrofit or in new construction applications
- Economic, environment-friendly lighting in situations with long burning hours
- Lowest maintenance costs

### Features

- Also available in 55 and 165 watts.
- Crisp white light with no color shift.
- Operates in hot and cold environments - amalgam control.
- High lumen efficiency - 85W QL features 6,200 initial lumens.

### Application

Ideal for street lighting, bridges and tunnels, hazardous areas, cold storage warehouses and hard-to-reach applications.

### Compliances and approvals

- Safety  
IEC 62532, IEC 61347-1, IEC 62471
- Performance  
IEC 62639 (in prep.), IEC 60929
- Quality standard  
ISO 9001
- Environmental management system  
ISO 14001
- Electromagnetic Compatibility  
EN 61000, EN 55015, EN 55022
- Vibration and (thermal)shocks  
IEC 60068



## QL 85W Lamp

### PRODUCT DATA

#### Product number

QL08500130                      QL08500140

#### Full product name

QL Alu Base                      QL Alu Base

85W 830                      85W 840

#### Pieces/sleeve

1

#### Sleeves per box

6

#### Net weight

0.360 kg per piece

#### Cable length power coupler

555 mm / 21.9 inch

#### Operating temperature

40°C to +55°C ambient

#### Safety approvals

C-UL-US and CE

### Light Technical

#### Characteristics

#### Chromaticity Coordinate X

3000K\*                      4000K

#### Chromaticity Coordinate Y

444                      392

#### RA

404                      385

#### Luminous Flux System

>80                      >80

#### Luminous Efficacy System

6200 lm                      6200 lm

#### Luminous Efficacy Lamp

73 lm/W                      73 lm/W

#### Luminance Average EL

86 lm/W                      86 lm/W

#### PE.T.(NIOSH)

75 cd/cm2                      75 cd/cm2

#### Damage Factor (Dfc)

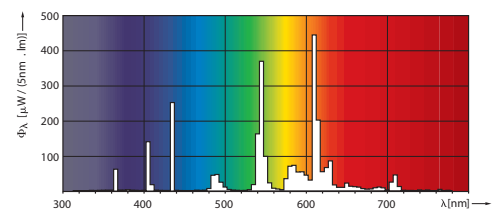
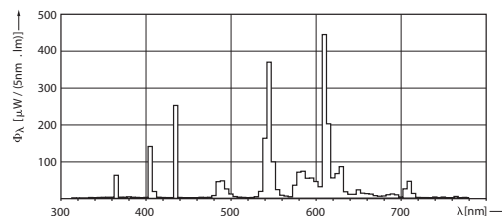
>24h                      >24h

<0.6                      <0.6

\* Other color temperatures available upon request.

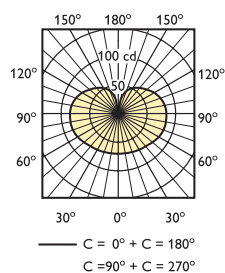
### PHOTOMETRIC DATA

#### Spectral energy distribution

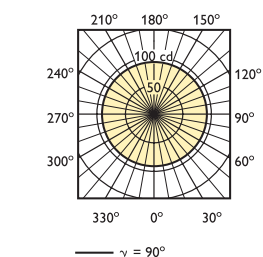


Typical Spectral energy distribution of QL 85W 3000K.

### LIGHT DISTRIBUTION



Typical light distribution of QL 85W  
Azimuth angle



Typical light distribution of QL 85W,



## QL 85W Generator



### PRODUCT DATA

#### Product number

Product description

Pieces per box

Net weight

Dimensions (L x W x H)

Connectors

### Features

### General Characteristics

Lifetime system

Efficiency

Cooling

Tcase

Storage

Operating temp.

Operating position

Safety approvals

EMC approvals

### Electrical Characteristics

Input line freq.

Power Factor

Current THD

Output Voltage

Switching freq.

Current nom.

Run-up/short

GE08510271

QL Generator 85W 100-277V

6

0.50 kg per piece

155 x 100 x 51 mm

Screw terminals

High reliability

Instant hot and cold (re) start

Operates in hot and cold environments

L 70 >70.000 hrs

Power Factor Correction and limited inrush current

Protection lamp end of life

Extended protection against mains faults and deviations

80.000 hrs at Tc=72°C

> 90%, max. load

convection, dependent on system set-up, heat sinking required

82°C max (72°C for full life)

-40°C to +85°C

-40°C to +55°C ambient

Universal

C-UL-US and CE

Complies with all international EMC requirements

45 - 66Hz

> 0.98

ANSI C82.11-2002

300 V

2.65 MHz ± 8%

Depending on lamp

< 1.8 x I<sub>nom</sub>

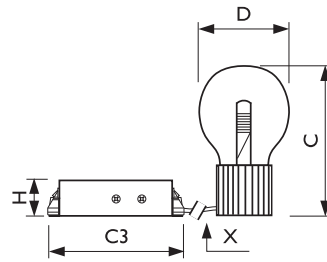


## QL 85W System

### DIMENSIONAL DRAWING

#### Product dimensions

Overall length C (Max)	182 mm / 7.16 inch
Length gear C3 (Norm)	155 mm / 6.10 inch
Diameter D (Max)	110 mm / 4.33 inch
Height gear H (Norm)	50 mm / 1.97 inch
Cable length X (Norm)	555 mm / 21.85 inch



### SYSTEM DATA

#### General Characteristics

Operating Position	Universal
Life System to 5% failures	40,000 hr
Life System to 10% failures	60,000 hr
Life System to 20% failures	80,000 hr
Life System to 50% failures	100,000 hr

#### Electrical Characteristics

System Power	85 W
Operating Frequency	2.650 MHz
Ignition Time	0.5 sec
Run-up time 70%	10 min
Re-ignition Time	0.5 sec

#### Environmental Characteristics

Mercury (Hg) Content	6.0 mg
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