

# 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 lighting systems have a unique long performance life up to 100,000 hours because there is no use of electrodes in the induction system. In many cases the systems lifetime is determined at 60,000 hours, which equals approximately 15 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

- Dimmable to 50%
- Crisp white light with no color shift.
- Operates in hot and cold environments - amalgam control.
- High lumen efficiency - 85W QL features 12,000 initial lumens.
- Also available in 55 and 165 watts.

### 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 55015, EN 55022
- **Vibration and (thermal)shocks**  
IEC 60068



## QL 85W Lamp

### PRODUCT DATA

#### Product number

Full product name

Pieces/sleeve

Sleeves per box

Net weight

#### Light Technical

#### Characteristics

Chromaticity Coordinate X

Chromaticity Coordinate Y

RA

Luminous Flux System

Luminous Efficacy

Luminance Average EL

P.E.T.(NIOSH)

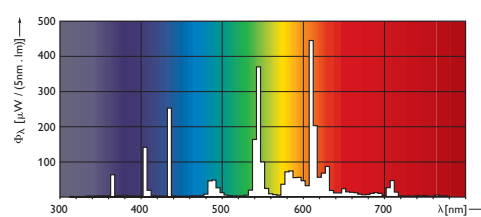
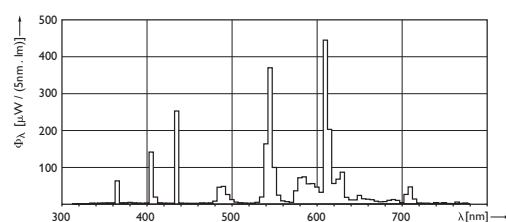
Damage Factor (Dfc)

QL08500027	QL08500030	QL08500040	QL08500050
QL Twist Base	QL Twist Base	QL Twist Base	QL Twist Base
85W 827	85W 830	85W 840	85W 850
1			
6			
0.137 kg per piece			

2700K	3000K	4000K	5000K
476	444	392	346
417	404	385	359
>80	>80	>80	>80
6100 lm	6200 lm	6200 lm	6100 lm
72 lm/W	73 lm/W	73 lm/W	72 lm/W
7.0 cd/cm <sup>2</sup>	7.5 cd/cm <sup>2</sup>	7.5 cd/cm <sup>2</sup>	7.0 cd/cm <sup>2</sup>
>24h	>24h	>24h	>24h
<0.6	<0.6	<0.6	<0.6

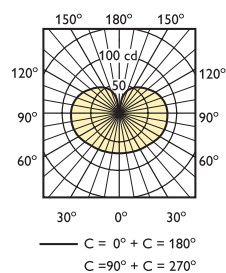
### PHOTOMETRIC DATA

#### Spectral energy distribution

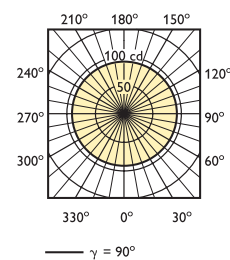


Typical Spectral energy distribution of QL 85W 3000K.

### LIGHT DISTRIBUTION



Typical light distribution of QL 85W



Typical light distribution of QL 85W,  
Azimuth angle

## QL 85W Power coupler

### PRODUCT DATA

#### Product number

Product description

Pieces per box

Net weight

#### Characteristics

Storage temperature

Operating temperature

Operating Position

Safety approvals

EMC approvals

Cable length

Connectors

Net Weight

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**PC08500000**

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QL Power Coupler 85W

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6

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0,200 kg per piece

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-40°C to +85°C

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-40°C to +55°C<sub>ambient</sub>

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Universal

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C-UL-US and CE

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Complies with all international EMC requirements

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555 mm / 21.9 inch

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N/A

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0,200 kg per piece

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For detailed information and guiding concerning the development of appropriate luminaire designs please visit our website [www.qlcompany.com](http://www.qlcompany.com); "Information for Original Equipment" (OEM Guide).

Specifications subject to change without notice.



# QL 85W Generator



## PRODUCT DATA

### Product number

Product description

Pieces per box

Net weight

### Dimmable

Product number

Product description

Pieces per box

Net weight

### 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

Ignition

Dimming

### Product Dimensions

Dimensions (L x W x H)

Connectors

### GE08523000

QL Generator 85W 200-277V

6

0.580 kg per piece

GE08523001

QL Generator 85W 200-277V

6

0.580 kg per piece

### GE08512000

QL Generator 85W 100-120V

6

0.580 kg per piece

GE08512001

QL Generator 85W 100-120V

6

0.580 kg per piece

High Reliability

Instant hot and cold (re)start

Operates in hot and cold environments

Dimmable to 50%

L 70 >70.000 hrs

Power Factor Correction included

Limited inrush current

Output Power Stabilized

Protections

- Open/short output

- Thermal

- Lamp end of life

Extended protection against mains faults and deviations

100.000 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<sub>ambient</sub>

Universal

C-UL-US and CE

Complies with all international EMC requirements

45 - 66Hz

> 0.92

ANSI C82.11-2002

130 - 220 V<sub>ac</sub>

2.67 MHz ± 8%

Depending on lamp

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

1.2 kVp

EN60929, 1-10 V<sub>dc</sub> analog

50-100% output power

152 x 76 x 41 mm / 6.0 x 3.0 x 1.6 inch

Cage clamp terminals

## QL 85W System

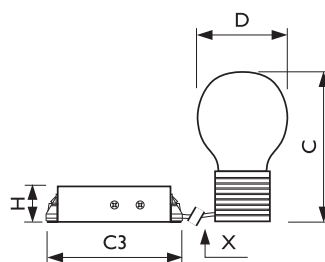


### DIMENSIONAL DRAWING

Product dimensions

Overall length C (Max)  
 Length gear C3 (Norm)  
 Diameter D (Max)  
 Height gear H (Norm)  
 Cable length X (Norm)

180.5 mm / 7.11 inch  
 154 mm / 6.06 inch  
 111 mm / 4.37 inch  
 40.8 mm / 1.61 inch  
 555 mm / 21.85 inch



### SYSTEM DATA

#### General Characteristics

Operating Position  
 Life System to 5% failures  
 Life System to 10% failures  
 Life System to 20% failures  
 Life System to 50% failures

Universal  
 40,000 hr  
 60,000 hr  
 80,000 hr  
 100,000 hr

#### Electrical Characteristics

System Power  
 Watts  
 Operating Frequency  
 Ignition Time  
 Run-up time 70%  
 Re-ignition Time

85 W  
 85 W  
 2.650 MHz  
 0.5 sec  
 10 min  
 0.5 sec

#### Environmental Characteristics

Mercury (Hg) Content 5.0 mg

#### North America distribution and sales:

Nedap Light Controls USA  
 14A Industrial Way  
 Atkinson, NH 0381, USA  
 Phone: 603 458 2089  
 Fax: 603 458 5632  
 info@ql-inductionlighting.us  
 www.nedap-qlinduction.com

#### EMEA manufacturing and sales:

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 Fax: +31 88 1269199  
 sales@qlcompany.com  
 www.qlcompany.com

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