

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

- Dimmable to 50%
- 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.
- 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 61000, 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

Cable length power coupler

Operating temperature

Safety approvals

QL08500130

QL08500140

QL Alu Base

QL Alu Base

85W 830

85W 840

1

6

0.360 kg per piece

555 mm / 21.9 inch

40°C to +55°C ambient

C-UL-US and CE

Light Technical

Characteristics

Chromaticity Coordinate X

Chromaticity Coordinate Y

RA

Luminous Flux System

Luminous Efficacy System

Luminous Efficacy Lamp

Luminance Average EL

PE.T.(NIOSH)

Damage Factor (Dfc)

3000K*

4000K

444

392

404

385

>80

>80

6200 lm

6200 lm

73 lm/W

73 lm/W

86 lm/W

86 lm/W

7.5 cd/cm²

7.5 cd/cm²

>24h

>24h

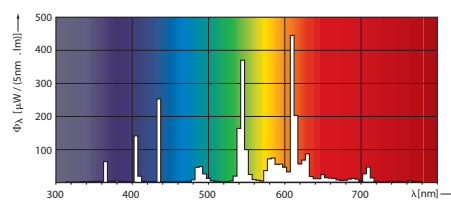
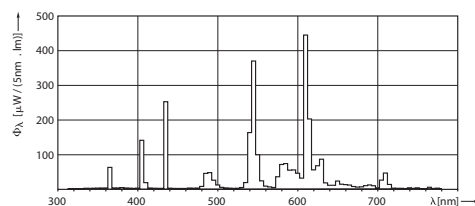
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* Other color temperatures available upon request.

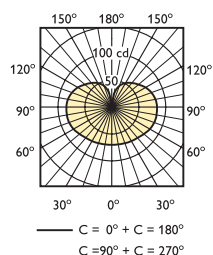
PHOTOMETRIC DATA

Spectral energy distribution

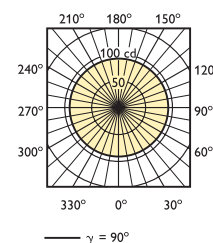


Typical Spectral energy distribution of QL 85W 3000K.

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

Dimming behavior

General Characteristics

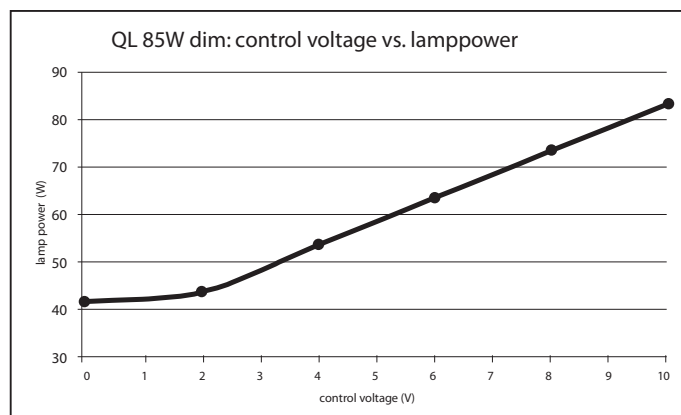
Lifetime system
 Efficiency
 Cooling
 Tcase
 Storage
 Operating temp.
 Operating position
 Safety approvals
 EMC approvals

Electrical Characteristics

Input line freq.
 Power Factor
 Current THD
 Output Voltage
 Switching freq.
 Current nom.
 Run-up/short
 Dimming

GE08523001	GE08512001
QL Generator 85W 200-277V	QL Generator 85W 100-120V
6	6
0.580 kg per piece	0.580 kg per piece
152 x 76 x 41 mm	152 x 76 x 41 mm
Cage clamp terminals	Cage clamp terminals

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 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
 130 - 220 V_{ac}
 2.67 MHz ± 8%
 Depending on lamp
 < 1.8 x I_{nom}
 EN60929, 1-10 V_{dc} analog, 50-100% output power



QL 85W System

DIMENSIONAL DRAWING

Product dimensions

Overall length C (Max)

182 mm / 7.16 inch

Length gear C3 (Norm)

154 mm / 6.06 inch

Diameter D (Max)

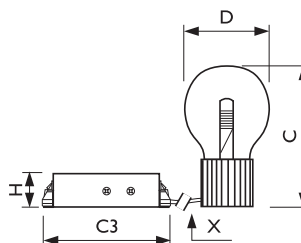
110 mm / 4.33 inch

Height gear H (Norm)

40.8 mm / 1.61 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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