

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

Light Technical

Characteristics

Chromaticity Coordinate X

Chromaticity Coordinate Y

RA

Luminous Flux System

Luminous Efficacy System

Luminous Efficacy Lamp

Luminance Average EL

P.E.T.(NIOSSH)

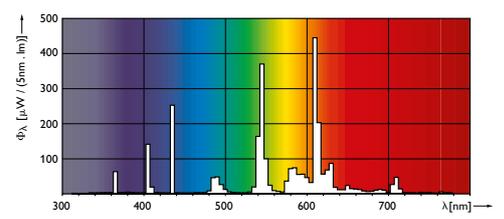
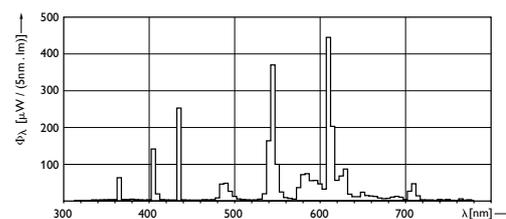
Damage Factor (Dfc)

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
85 lm/W	86 lm/W	86 lm/W	79 lm/W
7.0 cd/cm ²	7.5 cd/cm ²	7.5 cd/cm ²	7.0 cd/cm ²
>24h	>24h	>24h	>24h
<0.6	<0.6	<0.6	<0.6

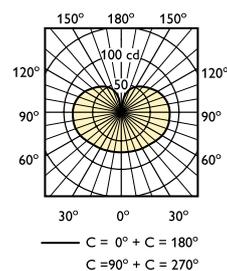
PHOTOMETRIC DATA

Spectral energy distribution

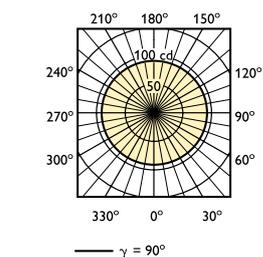


Typical Spectral energy distribution of QL 85W 3000K.

LIGHT DISTRIBUTION



Typical light distribution of QL 85W
Azimuth angle



Typical light distribution of QL 85W,

QL 85W Power coupler



PRODUCT DATA

Product number

Product description

Pieces per box

Net weight

PC08500000

QL Power Coupler 85W

6

0.200 kg per piece

Characteristics

Storage temperature

Operating temperature

Operating Position

Safety approvals

EMC approvals

Cable length

Connectors

Net Weight

-40°C to +85°C

-40°C to +55°C_{ambient}

Universal

C-UL-US and CE

Complies with all international EMC requirements

555 mm / 21.9 inch

N/A

0,200 kg per piece

For detailed information and guiding concerning the development of appropriate luminaire designs please visit our website 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
 Dimensions (L x W x H)
 Connectors

Features

Dimming behavior

General Characteristics

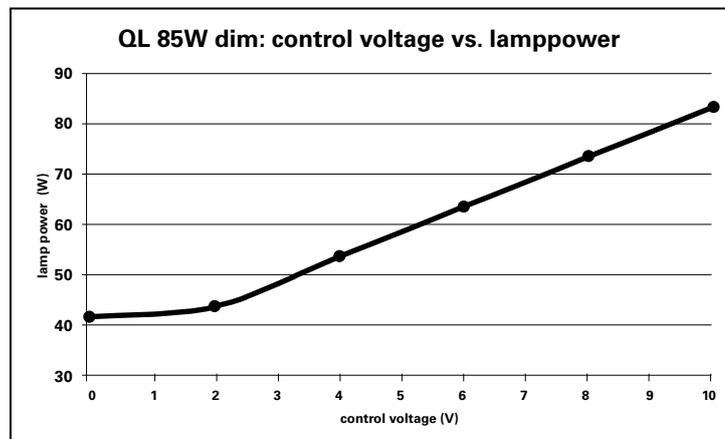
Lifetime system
 Efficiency
 Cooling
 T_{case}
 Storage
 Operating temp.
 Operating position
 Safety approvals
 EMC approvals

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%
- Can operate on both AC and DC power
- Power Factor Correction and limited inrush current
- Protection lamp end of life
- Extended protection against mains faults and deviations



- 80.000 hrs at T_c=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

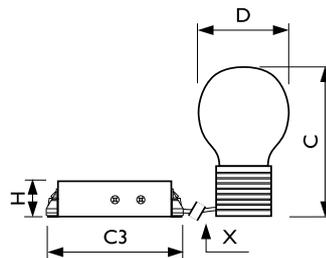


DIMENSIONAL DRAWING

Product dimensions

Overall length C (Max)
 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 1% failures
 Life System to 3% failures
 Life System to 5% failures
 Life System to 10% failures

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

Electrical Characteristics

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

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:

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