

55 Watt Induction 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 - 55W QL features 12,000 initial lumens.
- Also available in 85 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 55W 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)

QL05500027

QL Twist Base

55W 827

1

6

0.137 kg per piece

QL05500030

QL Twist Base

55W 830

QL05500040

QL Twist Base

55W 840

QL05500050

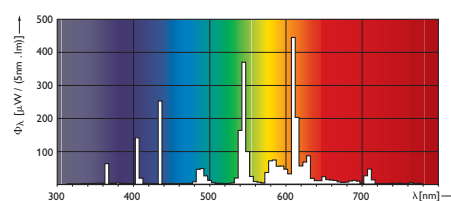
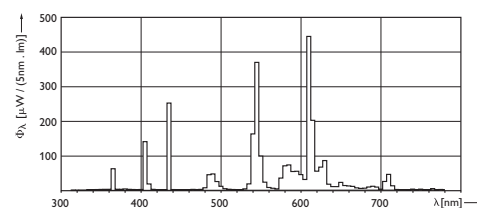
QL Twist Base

55W 850

| 2700K | 3000K | 4000K | 5000K |
|------------|------------|------------|------------|
| 471 | 442 | 392 | 346 |
| 416 | 404 | 385 | 359 |
| >80 | >80 | >80 | >80 |
| 3550 lm | 3650 lm | 3650 lm | 3500 lm |
| 65 lm/W | 66 lm/W | 66 lm/W | 64 lm/W |
| 5.0 cd/cm2 | 5.0 cd/cm2 | 5.0 cd/cm2 | 5.0 cd/cm2 |
| >24h | >24h | >24h | >24h |
| <0.6 | <0.6 | <0.6 | <0.6 |

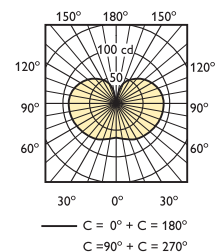
PHOTOMETRIC DATA

Spectral energy distribution

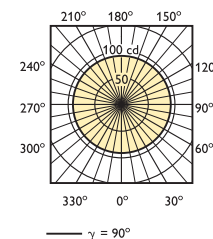


Typical Spectral energy distribution of QL 55W 3000K.

LIGHT DISTRIBUTION



Typical light distribution of QL 55W



Typical light distribution of QL 55W,
Azimuth angle

QL 55W Power coupler

PRODUCT DATA

Product number

Product description
Pieces per box
Net weight

PC05500000

QL Power Coupler 55W
6
0.166 kg per piece

Characteristics

Storage temperature
Operating temperature
Operating Position
Safety approvals
EMC approvals
Cable length
Connectors

-40°C to +85°C
-40°C to +55°C ambient
Universal
cULus and CE
Complies with all international EMC requirements
555 mm / 21.9 inch
N/A



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 55W 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

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

Ignition

Dimming

Product Dimensions

Dimensions (L x W x H)

Connectors

GE05523000

QL Generator 55W 200-277V

6

0.580 kg per piece

GE05512000

QL Generator 55W 100-120V

6

0.580 kg per piece

GE05523001

QL Generator 55W 200-277V

6

0.580 kg per piece

GE05512001

QL Generator 55W 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 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

> 0.92

ANSI C82.11-2002

130 - 220 Vac

2.67 MHz ± 8%

Depending on lamp

< 1.8 x I_{nom}

1.2 kVp

EN60929, 1-10 V_{dc} analog

50-100% output power

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

Cage clamp terminals

QL 55W System



DIMENSIONAL DRAWING

Product dimensions

Overall length C (Max)

Length gear C3 (Norm)

Diameter D (Max)

Height gear H (Norm)

Cable length X (Norm)

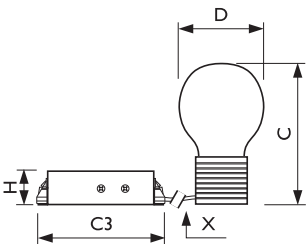
141 mm / 5.55 inch

154 mm / 6.06 inch

86 mm / 3.39 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

55 W

55 W

2.650 MHz

0.5 sec

10 min

0.5 sec

Environmental
Characteristics

Mercury (Hg) Content 5.0 mg