

QL 55W Induction Lighting System

**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 - 55W QL features 3,650 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 61000, 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

Cable length power coupler

Operating temperature

Safety approvals

QL05500130                      QL05500140

QL Alu Base                      QL Alu Base

55W 830                          55W 840

1

6

0.325 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

442                              392

404                              385

>80                              >80

3650 lm                        3650 lm

66 lm/W                        66 lm/W

78 lm/W                        78 lm/W

5.0 cd/cm2                    5.0 cd/cm2

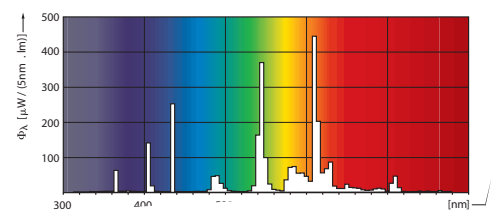
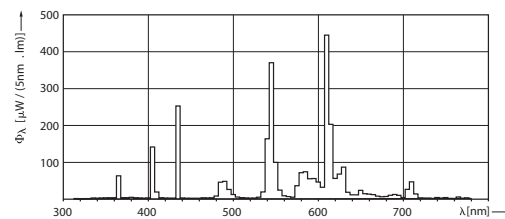
>24h                            >24h

<0.6                              <0.6

\* Other color temperatures available upon request.

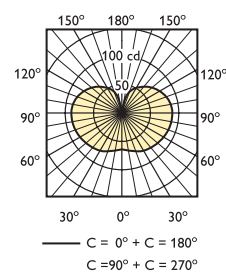
### PHOTOMETRIC DATA

#### Spectral energy distribution

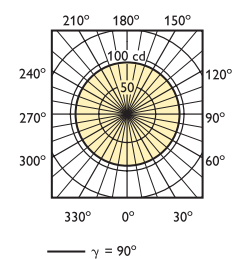


Typical Spectral energy distribution of QL 55W 3000K.

### LIGHT DISTRIBUTION



Typical light distribution of QL 55W



Typical light distribution of QL 55W, Azimuth angle

## QL 55W 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

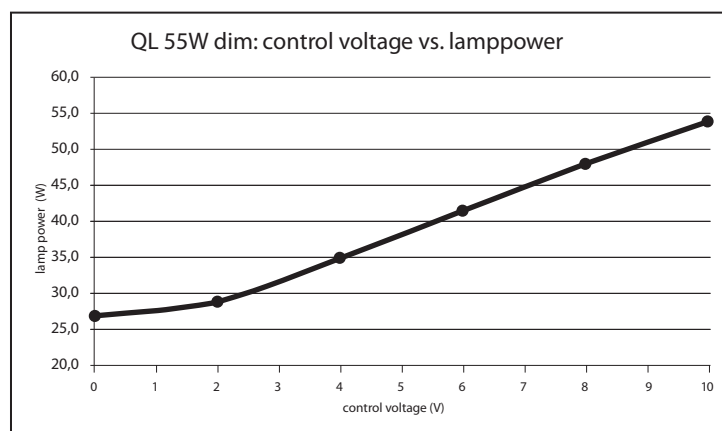
### Electrical Characteristics

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



GE05523001	GE05512001
QL Generator 55W 200-277V	QL Generator 55W 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 Vac  
2.67 MHz ± 8%  
Depending on lamp  
< 1.8 x I<sub>nom</sub>  
EN60929, 1-10V<sub>dc</sub> analog, 50-100% output power

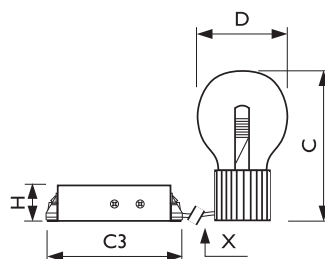


## QL 55W System

### DIMENSIONAL DRAWING

#### Product dimensions

Overall length C (Max)	150 mm / 5.91 inch
Length gear C3 (Norm)	154 mm / 6.06 inch
Diameter D (Max)	85 mm / 3.35 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	55 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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