

**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 - 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 System

Luminous Efficacy Lamp

Luminance Average EL

P.E.T.(NIOSH)

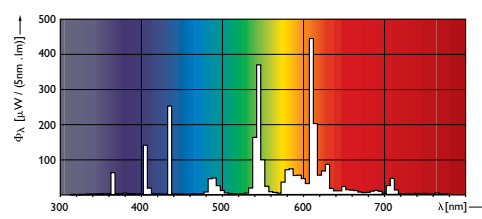
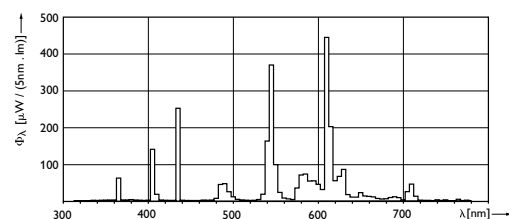
Damage Factor (Dfc)

QL05500027	QL05500030	QL05500040	QL05500050
QL Twist Base	QL Twist Base	QL Twist Base	QL Twist Base
55W 827	55W 830	55W 840	55W 850
1			
6			
0.137 kg per piece			

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
76 lm/W	78 lm/W	78 lm/W	74 lm/W
5.0 cd/cm <sup>2</sup>	5.0 cd/cm <sup>2</sup>	5.0 cd/cm <sup>2</sup>	5.0 cd/cm <sup>2</sup>
>24h	>24h	>24h	>24h
<0.6	<0.6	<0.6	<0.6

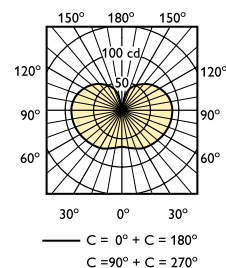
## PHOTOMETRIC DATA

### Spectral energy distribution

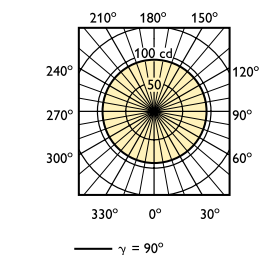


Typical Spectral energy distribution of QL 55W 3000K.

## 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

#### Characteristics

Storage temperature

Operating temperature

Operating Position

Safety approvals

EMC approvals

Cable length

Connectors

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**PC05500000**

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QL Power Coupler 55W

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6

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0.166 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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cULus 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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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 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<sub>case</sub>

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<sub>c</sub>=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 Vac

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 55W System

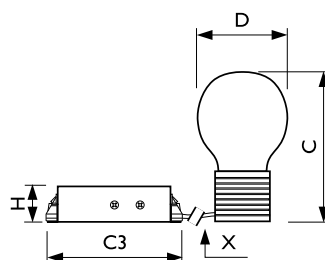


### DIMENSIONAL DRAWING

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

55 W
2.650 MHz
0.5 sec
10 min
0.5 sec

#### Environmental Characteristics

Mercury (Hg) Content 5.0 mg
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#### 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](mailto:info@ql-inductionlighting.us)  
[www.nedap-qlinduction.com](http://www.nedap-qlinduction.com)

#### EMEA manufacturing and sales:

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 Philipsweg 1  
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 Phone: +31 88 1269170  
 Fax: +31 88 1269199  
[sales@qlcompany.com](mailto:sales@qlcompany.com)  
[www.qlcompany.com](http://www.qlcompany.com)

#### Asia-Pacific distribution and sales:

IMT Far East Pte. Ltd.  
 7500A Beach Road  
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[sales@qlcompany.sg](mailto:sales@qlcompany.sg)