165W Induction Lighting System

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 an 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 165W QL features 12,000 initial lumens.
- Also available in 55 and 85 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 165W Lamp

PRODUCT DATA

Product number

Full product name

Pieces/sleeve Sleeves per box Net weight

Light Technical Characteristics

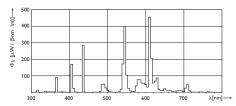
Chromaticity Coordinate X
Chromaticity Coordinate Y
RA
Luminous Flux System
Luminous Efficacy
Luminance Average EL
P.E.T.(NIOSH)
Damage Factor (Dfc)

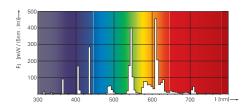
PHOTOMETRIC DATA

QL16500027	QL16500030	QL16500040	QL16500050
QL Twist Base	QL Twist Base	QL Twist Base	QLTwist Base
165W 827	165W 830	165W 840	165W 850
1			
6			
0.195 kg per piece			

2700K	3000K	4000K	5000K
472	435	388	346
418	398	380	359
>80	>80	>80	>80
11000 lm	12000 lm	12000 lm	11000 lm
67 lm/W	70 lm/W	70 lm/W	67 lm/W
7.0 cd/cm2	7.5 cd/cm2	7.5 cd/cm2	7.0 cd/cm2
>24h	>24h	>24h	>24h
<0.6	<0.6	<0.6	<0.6

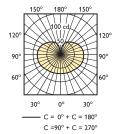
Spectral energy distribution



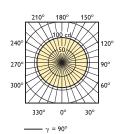


Typical Spectral energy distribution of QL 165W 3000K.

LIGHT DISTRIBUTION



Typical light distribution of QL 165W



Typical light distribution of QL 165W, Azimuth angle



QL 165W 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
Net Weight

PC16500000
QL Power Coupler 165W
6
0.277 kg per piece
-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

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.

0,277 kg per piece





QL 165W Generator

PRODUCT DATA

Product number

Product description Pieces per box Net weight

Dimmable

Product number Product description Pieces per box Net weight

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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 Ignition Dimming

Product Dimensions

Dimensions (L x W x H) Connectors

GE16523000	GE16512000
QL Generator 165W 200-277V	QL Generator 165W 100-120V
6	6
0.703 kg per piece	0.703 kg per piece

GE16523001	GE16512001
QL Generator 165W 200-277V	QL Generator 165W 100-120V
6	6
0.703 kg per piece	0.703 kg per piece

High Reliability
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 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
> 0.92
ANSI C82.11-2002
130 – 220 V _{ac}
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

190 x 112 x 41 mm / 7.5 x 4.4 x 1.6 inch

Cage clamp terminals



QL 165W System

DIMENSIONAL DRAWING

Product dimensions Overall length C (Max) Length gear C3 (Norm) Diameter D (Max) Height gear H (Norm) Cable length X (Norm)

SYSTEM DATA

General Characteristics

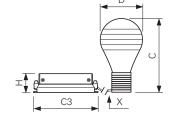
Operating Position Life System to 5% failures Life System to 10% failures Life System to 20% failures Life System to 50% failures

Electrical Characteristics

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

Environmental Characteristics

205.5 mm / 8.09 inch
190 mm
131 mm / 5.12 inch
42.3 mm
555 mm



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

165 W			
165 W			
2.650 MHz			
0.5 sec			
10 min			
0.5 sec			

Mercury (Hg) Content 7.0 mg