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165W Induction Lighting System

The most sustainab lighting solution CANER IN

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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 an 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 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 61000, 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 Cable length power coupler Operating temperature Safety approvals

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)

PHOTOMETRIC DATA

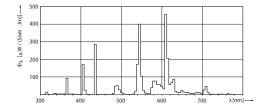


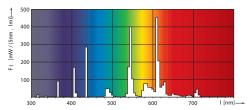
QL16500140	
QL Alu Base	
165W 840	
	QL Alu Base

4000K	
388	
380	
>80	
12000 lm	
70 lm/W	
86 lm/W	
7.5 cd/cm2	
>24h	
<0.6	
	388 380 >80 12000 lm 70 lm/W 86 lm/W 7.5 cd/cm2 >24h

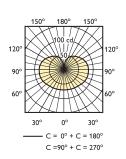
* Other color temperatures available upon request.

Spectral energy distribution

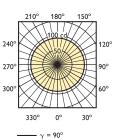




Typical Spectral energy distribution of QL 165W 3000K.



Typical light distribution of QL 165W



Typical light distribution of QL 165W, Azimuth angle

LIGHT DISTRIBUTION



QL 165W Generator

PRODUCT DATA

Product number Product description Pieces per box Net weight Dimensions (L x W x H) Connectors

Features

Dimming behavior

General Characteristics

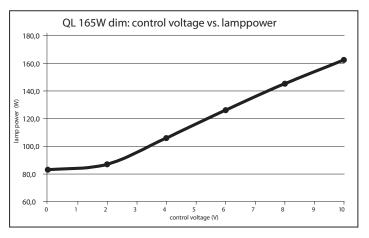
Lifetime system Efficiency Cooling Tcase Storage Operating temp. Operating position Safety approvals EMC approvals

Electrical Characteristics

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

GE16523001	GE16512001
QL Generator 165W 200-277V	QL Generator 165W 100-120V
6	6
0.703 kg per piece	0.703 kg per piece
190 x 112 x 41 mm	190 x 112 x 41 mm
Cage clamp terminals	Cage clamp terminals

High ReliabilityInstant hot and cold (re) startOperates in hot and cold environmentsDimmable to 50%L 70 >70.000 hrsPower Factor Correction and limited inrush currentProtection lamp end of lifeExtended protection against mains faults and deviations



80.000 hrs atTc=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

5 - 66Hz
0.98
NSI C82.11-2002
30 – 220 V _{ac}
.67 MHz ± 8%
epending on lamp
1.8 x I nom
2 kVp
N60929, 1-10 V _{dc} analog, 50-100% output power



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

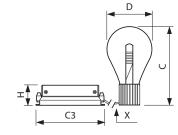
General Characteristics Operating Position Life System to 5% failures Life System to 10% failures Life System to 20% failures Life System to 50% failures

Electrical Characteristics

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

Environmental Characteristics

208 mm / 8.19 inch	
190 mm	
130 mm / 5.12 inch	
42.3 mm	
555 mm	



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

Mercury (Hg) Content 8.0 mg

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