

PRODUCT DATASHEET HQL LED 6000 lm 41 W/4000 K E40

HQL LED PRO | LED replacement for HID lamps for outdoor application



Areas of application

- Streets
- Area lighting
- Pedestrian zones
- Parks
- Outdoor applications only in suitable luminaires

Product benefits

- Saves up to 78 % energy when used as replacement for mercury vapor lamps (HQL)
- Low maintenance costs thanks to long lifetime
- Instant 100 % light, no warm-up time

Product features

- Replacement for HQL: Suitable for operation with conventional control gear (CCG) for HQL or 230 V mains
- Replacement for other HID: Suitable for operation with line voltage without control gear
- Power factor: 0.9
- Type of protection: IP65
- High surge protection: up to 6 kV (L-N)





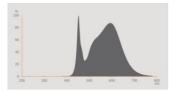
TECHNICAL DATA

Electrical data

| Nominal wattage | 41 W |
|--|----------|
| Construction wattage | 41.00 W |
| Nominal voltage | 220240 V |
| Claimed equiv. conventional lamp power | 125 W |
| Nominal current | 190 mA |
| Type of current | AC |
| Operating frequency | 50/60 Hz |
| Mains frequency | 50/60 Hz |
| Max. lamp no. on circuit break. 10 A (B) | 33 |
| Max. lamp no. on circuit break. B10 A - CCG without compensation | 25 |
| Max. lamp no. on circuit break. B10 A - CCG with compensation | 23 |
| Max. lamp no. on circuit break. 16 A (B) | 52 |
| Max. lamp no. on circuit break. B16 A - CCG without compensation | 42 |
| Max. lamp no. on circuit break. B16 A - CCG with compensation | 37 |
| Total harmonic distortion | 20 % |
| Power factor λ | > 0.90 |

Photometrical data

| Luminous flux | 6000 lm |
|---|------------|
| Nominal useful luminous flux 90° | 6000 lm |
| Luminous efficacy | 146 lm/W |
| Lumen main.fact.at end of nom.life time | 0.70 |
| Light color (designation) | Cool White |
| Color temperature | 4000 K |
| Color rendering index Ra | ≥80 |
| Light color | 840 |
| Standard deviation of color matching | ≤6 sdcm |
| Rated LLMF at 6,000 h | 0.80 |
| Flickering metric (Pst LM) | 1.0 |
| Stroboscope effect metric (SVM) | 0.40 |



Light technical data

| Beam angle | 360 ° |
|------------------------------------|----------|
| Warm-up time (60 %) | < 0.50 s |
| Starting time | < 0.5 s |
| Rated beam angle (half peak value) | 360.00 ° |

Dimensions & Weight

| Overall length | 204.00 mm |
|------------------|-----------|
| Diameter | 80.00 mm |
| Maximum diameter | 80 mm |
| Product weight | 690.00 g |

Temperatures & operating conditions

| Ambient temperature range | -20+50 °C |
|--------------------------------------|-----------|
| Maximum temperature at tc test point | 105 ℃ |

Lifespan

| Lifespan | 50000 h |
|-------------------------------------|---------|
| Number of switching cycles | 100000 |
| Lumen maintenance at end of serv | 0.70 |
| Rated lamp survival factor at 6,000 | ≥ 0.90 |

Additional product data

| Base (standard designation) | E40 |
|-----------------------------|--------|
| Mercury content | 0.0 mg |

Capabilities

| Lapadiuties Control of the Control o | | | |
|--|-----------------|--|--|
| Dimmable | No | | |
| Certificates & Standards | | | |
| Energy efficiency class | D | | |
| Energy consumption | 41.00 kWh/1000h | | |
| Type of protection | IP65 | | |
| Standards | CE | | |
| Photobiological safety group acc. to EN62778 | RGO | | |
| Country-specific categorizations | | | |
| Order reference | HQLLED6000 41W/ | | |
| LOGISTICAL DATA | | | |
| Temperature range at storage | -20+80 °C | | |
| Energy labelling regulation data acc EU 2019/2015 | | | |
| Lighting technology used | LED | | |
| Non-directional or directional | NDLS | | |
| Mains or non-mains | MLS | | |
| Light source cap-type (or other electric interface) | E40 | | |
| Connected light source (CLS) | No | | |
| Color-tuneable light source | No | | |
| Envelope | No | | |
| High luminance light source | No | | |
| Anti-glare shield | No | | |
| Correlated colour temperature type | SINGLE_VALUE | | |
| Claim of equivalent power | No | | |
| Length | 204.00 mm | | |
| Height | 80.00 mm | | |
| Width | 80.00 mm | | |
| Chromaticity coordinate x | 0.382 | | |
| Chromaticity coordinate y | 0.380 | | |
| R9 Colour rendering index | 0.40 | | |
| Beam angle correspondence | SPHERE_360 | | |
| Survival factor | 0.90 | | |
| | | | |

0.90

Displacement factor

| LED light source replaces a fluorescent light source | No |
|--|---------|
| EPREL ID | 503822 |
| Model number | AC32916 |

Safety advice

- The bulb may be larger and heavier than the replaced bulb. Before installation it must be checked, if the luminaire and especially the holder is capable of carrying the weight of the lamp. If possible, please install the safety rope included in the package containing the lamp for the types 90 W lamps.
- Not suitable for operation with ignitors
- Operation on the capacitor can lead to a reduction of the power factor of the system.
- When installed horizontally, the t_c point of the lamp is located on the top side of the lamp.
- Use in tight luminaires and luminaires with tight reflectors not recommended.

DOWNLOAD DATA

| | DOWNLOAD DATA |
|-----|------------------|
| POF | User instruction |

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075612532 | Folding box 1 | 105 mm x 105 mm x 255 mm | 756.00 g | 2.81 dm ³ |
| 4058075612549 | Shipping box 6 | 335 mm x 230 mm x 275 mm | 4958.00 g | 21.19 dm ³ |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.