

HORTUS DA



BASIC PRODUCT INFORMATION

The product line HORTUS DA for park lighting is technically up to products of the world most renowned companies. The product line HORTUS DA uses reflected light and so it meets the highest requirements. It is suitable for illumination of sidewalks in the parks, residential areas and bicycle paths. Illuminous flux and power consumption comes fluently between 4.000 and 6.000 lm. Thanks to these facts, our lights always beats competition in price-performance ratio.

ADVANTAGES OF HORTUS DA

- Hermetic optical unit with the highest possible protection grade IP68 and with a glass lens made of hardened optical boron silicate glass, ensuring virtually no need of maintenance.
- Option of equipping with a programmable unit Smart Control, which lowers the light intensity in times of low road traffic to a predefined level(s). These units are built-in into the lamps and work autonomously, without the need of a steering signal from a central unit.
- Dimmable drivers from renowned world producers such as Meanwell, with high efficiency $n > 88\%$ incl. power factor compensation.

CERTIFICATES & COMPLIANCE

CE, RoHS, IP65, IP67 (LED driver), IP68 (optical unit), IK08.

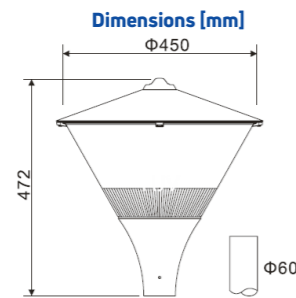
Technical parameters of HORTUS DA lamps

| | |
|----------------------------|--|
| Rated voltage | 230 V/50 Hz |
| Power | 30 – 50 W |
| Luminous flux | 4,000 – 6,000 lm |
| Luminaire efficiency @25°C | up to 130 lm/W |
| IP Rating | IP65 |
| Lamp life | min. 100.000 hours |
| Operating temperature | -40°C to +40°C |
| Lamp body | aluminium die cast, diffuser PC, aluminium sheet |
| Dimensions | Ø450x472 mm |
| Weight | 4,5 kg |
| Insulation class | I |
| Pole diameter | 46-60 mm |

Technical parameters of LED module

| | |
|-----------------------------|---|
| Color temperature | 4,000K (as an option 3,000 and 5,000K) |
| Color rendering index (CRI) | $R_a > 70$ $R_a > 80$ - Option Epistar, Bridgelux |
| LED COB chips | Epistar, Bridgelux |
| Impact protection grade | IK08 |
| Light source | encapsulated LED module IP68 |
| Lens | hardened optical silicate glass |
| LED lifetime L80 @Ta=25°C | min. 50.000 hours |

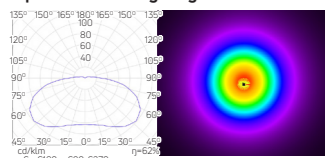
| | |
|--------------|----------|
| LED driver | MeanWell |
| Manufacturer | > 0,95 |
| Power factor | > 88% |
| Efficiency | |



TYPICAL PHOTOMETRIC FEATURES AND THEIR APPLICATION AREAS

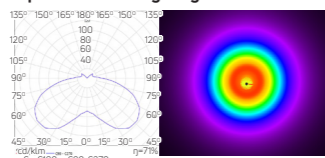
WP01S22

Typical application: residential areas, parks, bike path
Optimal for illuminating classes: P
Optimal mounting height: 4-6 m



HCS22

Typical application: residential areas, parks, bike path
Optimal for illuminating classes: P
Optimal mounting height: 4-6 m



RATED LUMINOUS FLUX AND POWER CONSUMPTION BY TYPE VARIANTS

| Power grade | DA40 | DA50 | DA60 |
|--------------------------------|------|------|------|
| Rated luminous flux @25°C [lm] | 4000 | 5000 | 6000 |
| Power consumption [W] | 30 | 40 | 50 |

SPOT DA



BASIC PRODUCT INFORMATION

The product line SPOT DA for outdoors lighting is technically up to products of the world most renowned companies. Illuminous flux and power consumption comes fluently between 3.000 and 11.000 lm. This outdoor floodlight is suitable for area lighting, design lighting and lighting of buildings. Thanks to these facts, our lights always beats competition in price-performance ratio.

ADVANTAGES OF SPOT DA

- Robust body and attractive design.
- Dimmable drivers from renowned world producers such as Meanwell, with high efficiency $n > 88\%$ incl. power factor compensation.
- High-performance LEDs from leading producers (Epistar, Bridgelux, Nichia), reaching 200 lm/W top performance
- Hermetic optical unit with the highest possible protection grade IP68 and with a glass lens made of hardened optical boron silicate glass, ensuring virtually no need of maintenance.
- Optimal lamp thermal management, ensuring long lifetime and long-term stability of parameters and allowing unrivalled LED lifetime parameters
- Option of equipping with a programmable unit Smart Control, which lowers the light intensity in times of low road traffic to a predefined level(s). These units are built-in into the lamps and work autonomously, without the need of a steering signal from a central unit.

CERTIFICATES & COMPLIANCE

CE, RoHS, IP65, IP67 (LED driver), IP68 (optical unit), IK08.

Technical parameters of SPOT DA lamps

| | |
|----------------------------|--------------------------|
| Rated voltage | 230 V/50 Hz |
| Power | 22 – 85 W |
| Luminous flux (lamp) | 3,000 - 11,000 lm |
| Luminaire efficiency @25°C | up to 135 lm/W |
| IP Rating | IP65 |
| Lamp life | min. 100.000 hours |
| Operating temperature | -40°C to +40°C |
| Lamp body | aluminium die cast |
| Surface finish | polyester powder coating |
| Dimensions | 391x322x114 mm |
| Weight | 5,5 kg |
| Insulation class | I |
| Mounting strip | 350 mm |

Technical parameters of LED module

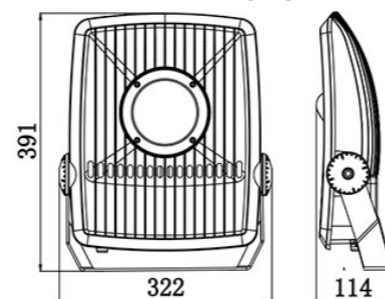
| | |
|-----------------------------|--|
| Color temperature | 4,000K (as an option 3,000 and 5,000K) |
| Color rendering index (CRI) | $R_a > 70$ standard $R_a > 80$ - Option Epistar, Bridgelux |
| LED COB chips | Epistar, Bridgelux |
| Impact protection grade | IK08 |
| Light source | encapsulated LED module IP68 |
| Lens | hardened optical boron silicate glass |
| LED lifetime L80 @Ta=25°C | min. 100.000 hours |

| | |
|----------------------------|----------|
| LED driver | MeanWell |
| Manufacturer | > 0,95 |
| Power factor of LED driver | > 88% |
| Efficiency of LED driver | |

On-demand lamp control options

- DALI
- Smart Control
- CLO (constant light output)
- LED Module thermal protection

Dimensions [mm]



RATED LUMINOUS FLUX AND POWER CONSUMPTION BY TYPE VARIANTS

| Power grade | DA30 | DA40 | DA50 | DA60 |
|--------------------------------|-------|-------|-------|-------|
| Rated luminous flux @25°C [lm] | 3 000 | 4 000 | 5 000 | 6 000 |
| Power consumption [W] | 22 | 30 | 38* | 46* |

| Typová varianta | DA70 | DA80 | DA90 | DA100 | DA110 |
|-----------------------------------|-------|-------|-------|--------|--------|
| Jmenovitý světelný tok @25°C [lm] | 7 000 | 8 000 | 9 000 | 10 000 | 11 000 |
| Příkon [W] | 54* | 62* | 69* | 77* | 85** |

* Possibility of power adjustment -50%/+10%
** Possibility of power adjustment -50%

Production and installation of outdoors lighting

elmont-invest

Czech producer

- 2005 creation of a wiring company
- 2007 manufacture of adjustable drawers
- 2009 production of switchboards
- 2013 production of LED lights
- 2014 modernization of production premises
- 2015 increased production efficiency with CNC
- 2016 production of charging stations for electric vehicles

elmont-invest s.r.o.

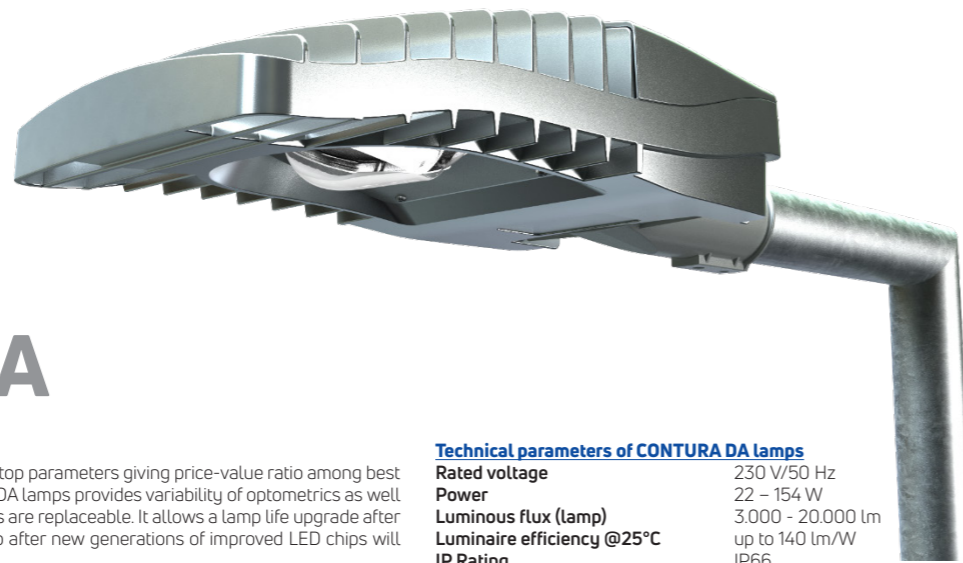
Jihlavská 2523/36
591 01 Žďár nad Sázavou
Czech Republic

+420 730 150 208
+420 739 233 307

info@elmont-invest.com

www.elmont-invest.com

eshop.elmont-invest.com



CONTURA DA

BASIC PRODUCT INFORMATION

The product line CONTURA DA stands for street lamps with top parameters giving price-value ratio among best on the market. Patented modular concept of the CONTURA DA lamps provides variability of optometrics as well as performance parameters. Fully sealed LED optic modules are replaceable. It allows a lamp life upgrade after LED lifetime expiration or an efficiency upgrade of the lamp after new generations of improved LED chips will enter the market.

ADVANTAGES OF CONTURA DA

- Robust body and attractive design.
- Dimmable drivers from renowned world producers such as Meanwell, with high efficiency $\eta > 88\%$ incl. power factor compensation.
- High-performance LEDs from leading producers (Epistar, Bridgelux, Nichia, Citizen), reaching 200 lm/W top performance
- Modular concept enabling to compile exactly the optimum lamps for each illumination project. As an option, a special optics distributing light asymmetrically in both vertical axes is available, a technology very well applicable for illumination of street pedestrian crossings.
- Hermetic optical unit with the highest possible protection grade IP68 and with a glass lens made of hardened optical boron silicate glass, ensuring virtually no need of maintenance.
- Optimal lamp thermal management, ensuring long lifetime and long-term stability of parameters and allowing unrivalled LED lifetime parameters
- Option of equipping with a programmable unit Smart Control, which lowers the light intensity in times of low road traffic to a predefined level(s). These units are built-in into the lamps and work autonomously, without the need of a steering signal from a central unit.

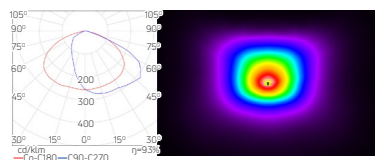
CERTIFICATES & COMPLIANCE

CE, RoHS, IP66, IP67 (LED driver), IP68 (optical unit), ENEC, IK08.

TYPICAL PHOTOMETRIC FEATURES AND THEIR APPLICATION AREAS

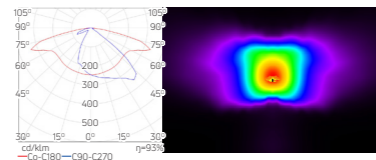
W401CS22

Typical application: car parkings, crossways
Optimal for illuminating classes: P and C
Optimal mounting height: 6-12 m



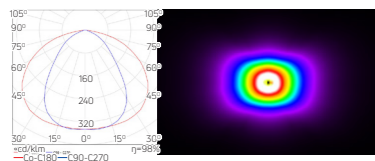
W504CS22

Typical application: main roads, residential areas
Optimal for illuminating classes: M, P and C
Optimal mounting height: 8-12 m



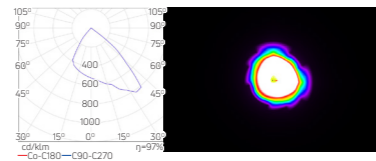
W782CS22

Typical application: architectural lighting sports areas
Optimal mounting height: 6-12 m



W787RCN15

Typical application: crosswalks
Compatible standard: TKP15
Optimal mounting height: 6 m



RATED LUMINOUS FLUX AND POWER CONSUMPTION BY TYPE VARIANTS

| Power grade | DA30 | DA40 | DA50 | DA60 | DA70 | DA80 | DA90 | DA100 | DA110 |
|--------------------------------|-------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Rated luminous flux @25°C [lm] | 3 000 | 4 000 | 5 000 | 6 000 | 7 000 | 8 000 | 9 000 | 10 000 | 11 000 |
| Power consumption [W] | 22 | 30 | 38 ¹ | 46 ¹ | 54 ¹ | 62 ¹ | 69 ¹ | 77 ¹ | 80 ¹ |

| Power grade | DA120 | DA130 | DA140 | DA150 | DA160 | DA170 | DA180 | DA190 | DA200 |
|--------------------------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|
| Rated luminous flux @25°C [lm] | 12 000 | 13 000 | 14 000 | 15 000 | 16 000 | 17 000 | 18 000 | 19 000 | 20 000 |
| Power consumption [W] | 86 ¹ | 93 ¹ | 100 ¹ | 107 ¹ | 114 ¹ | 126 ¹ | 133 ¹ | 146 ¹ | 154 ^{1,2} |

1 Possibility of power adjustment -50% /+10%
 2 Output increase +10% allowed for $T_a < 25^\circ\text{C}$

Technical parameters of CONTURA DA lamps

| | |
|------------------------------------|--|
| Rated voltage | 230 V/50 Hz |
| Power | 22 – 154 W |
| Luminous flux (lamp) | 3.000 - 20.000 lm |
| Luminaire efficiency @25°C | up to 140 lm/W |
| IP Rating | IP66 |
| Lamp life | min. 100.000 hours |
| Operating temperature | -40°C to +40°C |
| Lamp body | aluminium die cast |
| Surface finish | polyester powder coating light grey RAL 7042 |
| Dimensions (top pole mounting) | 512,5x255x117,5 mm |
| Dimensions (horizontal bracket) | 420x255x180 mm |
| Weight | 7,1 – 7,8 kg (power grade and optics depending) |
| Insulation class | I |
| Pole diameter | 60 mm |
| Elevation (tilt) | 0° to 30°, step 5° |
| Technical parameters of LED module | |
| Color temperature | 4.000K (as an option 3.000 and 5.000K) |
| Color rendering index (CRI) | $R_a > 70$ standard $R_a > 80$, $R_a > 90$ - Option Nichia, Bridgelux (22-77W) Citizen (80W-154W) |
| LED COB chips | IK08 |
| Impact protection grade | encapsulated LED module IP68 |
| Light source | hardened optical boron silicate glass |
| Lens | DA80-200 >110.000 hours Up to DA70 >150.000 hours |
| LED lifetime L80 @Ta=25°C | DA80-200 >140.000 hours Up to DA70 >150.000 hours |
| LED lifetime L80 @Ta=10°C | Up to DA70 >150.000 hours |

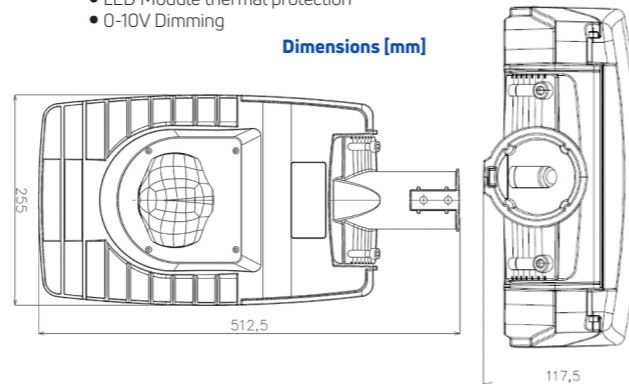
LED driver

LED Driver MeanWell
 Power factor of LED driver $> 0,95$
 Efficiency of LED driver $> 90\%$

On-demand lamp control options

- DALI
- Smart Control
- CLO (constant light output)
- LED Module thermal protection
- 0-10V Dimming

Dimensions [mm]



OMNIA DA

BASIC PRODUCT INFORMATION

The product line OMNIA DA for outdoors lighting is technically up to products of the world most renowned companies. The advantage of our products is wide variety of optics with high efficiency, which ensures optimization of our lights according to your individual project. Illuminous flux and power consumption comes fluently between 2.000 and 6.000 lm. Thanks to these facts, our lights always beats competition in price-performance ratio.

ADVANTAGES OF OMNIA DA

- Robust body and attractive design.
- Dimmable drivers from renowned world producers such as Meanwell, with high efficiency $\eta > 88\%$ incl. power factor compensation.
- High-performance LEDs from leading producers (Epistar, Bridgelux, Nichia), reaching 200 lm/W top performance
- Modular concept enabling to compile exactly the optimum lamps for each illumination project. As an option, a special optics distributing light asymmetrically in both vertical axes is available, a technology very well applicable for illumination of street pedestrian crossings.
- Hermetic optical unit with the highest possible protection grade IP68 and with a glass lens made of hardened optical boron silicate glass, ensuring virtually no need of maintenance.
- Optimal lamp thermal management, ensuring long lifetime and long-term stability of parameters and allowing unrivalled LED lifetime parameters
- Option of equipping with a programmable unit Smart Control, which lowers the light intensity in times of low road traffic to a predefined level(s). These units are built-in into the lamps and work autonomously, without the need of a steering signal from a central unit.

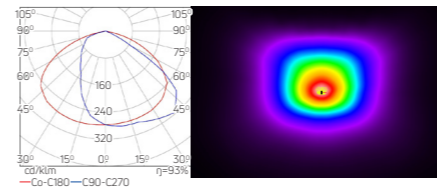
CERTIFIKACE A SHODA

CE, RoHS, IP65, IP67 (LED driver), IP68 (optical unit), IK08.

TYPICAL PHOTOMETRIC FEATURES AND THEIR APPLICATION AREAS

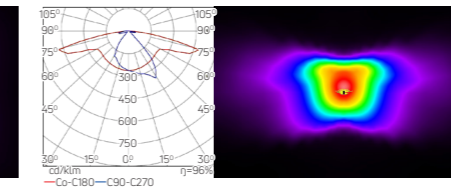
W401S22

Typical application: car parkings, crossways
Optimal for illuminating classes: S a CE
Optimal mounting height: 4-8 m



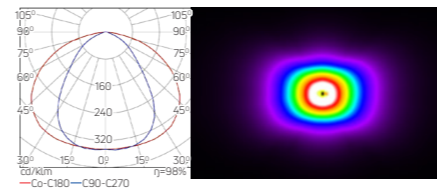
W504S22

Typical application: main roads, residential areas
Optimal for illuminating classes: ME, S a CE
Optimal mounting height: 6-8 m



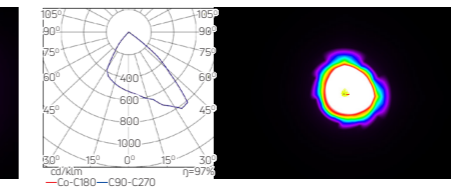
W782S22

Typical application: architectural lighting sports areas
Optimal mounting height: 4-8 m

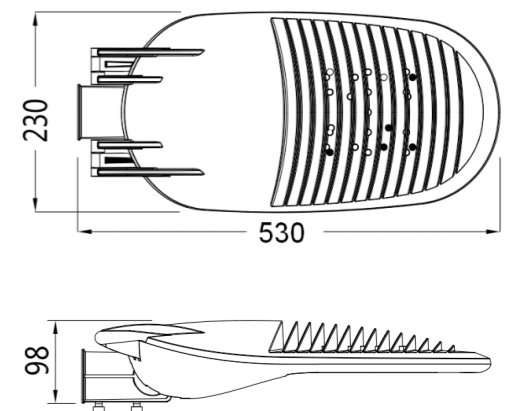


W787RN15

Typical application: crosswalks
Compatible standard: TKP15
Optimal mounting height: 6 m



Dimensions [mm]



RATED LUMINOUS FLUX AND POWER CONSUMPTION BY TYPE VARIANTS

| Power grade | DA20 | DA30 | DA40 | DA50 | DA60 | DA70 |
|--------------------------------|-------|-------|-------|-------|------|------|
| Rated luminous flux @25°C [lm] | 2 000 | 3 000 | 4 000 | 5 000 | 6000 | 7000 |
| Power consumption [W] | 15 | 22 | 30* | 38* | 46* | 54** |

* Possibility of power adjustment -50% /+10%
 ** Possibility of power adjustment -50%