

Intensia 62000 / 480 is a high power areal amp system designed for applications where best **Life Cycle Costs** are needed combined with lowest costs for installation. The lamp is designed for a 60 mm diameter standard pole with an adapter and have a solid design in casted aluminum with a modern design. Lamp is simple straight and have no special features except simple design low installation costs costs and excellent life cycle costs foe many years. Lamp have advanced led emitter cooling for best LCC costs and longest life time. LED and driver shall not be to warm. We are happy to offer a **5 years warranty of the complete lamp.**



Features of Intensia 62000 / 480 high power and intensity LED lamps.

- * Led emitter of Multi-array type with highest optical efficiency up to over 140 Lumen / W from emitter
- * System efficiency and losses gives up to 120 Lumen / W in light flux out from complete luminaire
- * European / US made key components designed for maximum life time and the reliability. Philips LED and mean well driver.
- * Unique cooling design makes components to operate at lower temperature than normal lamps
- * Illumination field 60x130 Degree with square beam output.
- * Natural white light at 5000 K in color temperature and CRI 70 or better
- * Power consumption is 480W and 62000 Lumen light flux with unique performance in efficiency
- * Rectangular output beam for best adaption to road like surfaces and lowest waste light spread beside important areas (Light Pollution) . Special high quality glass lens in BK7 glass.
- * Solid design is solid casted aluminum with powder paint coating. IP 66 encapsulation.
- * Mount that handle horisontal 60 mm diameter poles for horisontal mount. Optional swivel mount.
- * Life times MTBF over 100 000 hours for booth driver and LED emitter.
- * Very good Life cycle costs with 5 years warranty and over 10-15 years expected lifetime
- * Tropical design for high humidity, anticorrosion to salt and arcing protection to thunder and lightning bolts.
- * Casing injection moulded in Aluminum and power painted and profile cooler
- * Optional timer with intelligent features and power controls. Sun switch as option.

Intensia high power lamps This lamp is designed for best Life Cycle Costs (LCC) and earnings in low power consumption. This lamp replace a 1 KW HID lamp s or more in intensity and have far better and more uniform light distribution by special lens.

Technical specifications of Intensia led lamp series.

Housing	Injection casted aluminum with black powder paint + aluminium profiles
Weight	21 Kg complete with adjustable bracket and pole adapter 60 mm
Dimensions	579 x 442 x 218mm with 60 mm mount bracket
Encapsulation	IP 65 waterproof and corrosion resistant to very high degree.
Operating temperature	- 20 C to + 50 C in ambient air temperature
Connection	Junction box
Cable length	50 cm out of end of casted bracket, flying leads.
Color temperature	5000 K natural white CRI color rendering index 70
Led emitter L70 spec.	COB array of USA / MTBT L70 397 K Hours / 70% Standard
Life expectancy	50 000 hours / 70% output and less 5 % maintenance and service
Illumination field of view	Round beam with 120 degree FOV
Optics transmission	95% through lens
Power factor	0.95

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Intensa area lamp system 62000 /480

Input voltage	100-277VAC 50-60 Hz with Power factor 0.95 Start up time less 1 sec.
Surge/ lightning	All lamps have a 10 KA 1000 volt surge protection for lightning protection
CE standards	EN 61347-1 and EN 61347-2-13, ROHS 2011/65/EU, ROHS IEC 62031:2008+A1 Low voltage directive 2014/35/EU. IEC 72717:2014. ENEC -01559, EN55022, CISPR22 Class B EN 61000-3-2 Class A. EN6100-3-3 UL 8750, UL 935, UL 1012, UL 1310 Class 2, CSA-C-22.2 EN 55024 Industry level, Criteria A, 107.1, CSA C 22.2 No 223-M91 Class 2, Reach No 1907/2007 standard. MIL HDBK-217F (25C)
UL standard	Comply with UL8750 & EN 61347 Safety regulations. Conflict material acceptance CFSI.

Characteristics

Light flux out of lamp	62000 Lm
Light flux out of led	About 75000 Lm
Input power in Watt	480 W
Lumen / W total light flux	120 Lumen/ W
4000 Hours operation / year	1920 KWH / Year

Robusta Street lamp Model 62000/480

Light flux out from lamp in Lumen	Light flux out of lamp in Lumen
Inside lamp out of 2 LED emitters	Inside lamp out of 2 LED emitters
Into led driver. PF 0.95	Into led driver. PF 0.95
Out of Luminaire all included	Out of Luminaire all included
Power in KWH needed over 1 year	Power in KWH needed over 1 year

Notes.

Temperature affect characteristics so when we give a span in output and ty LED data based at 85C chip temperature but we are normally we have about 50C at 20C / ambient temperature.

LED emitters are always used far under recommended output in Lumen.

We have numerous options like timer, dimmer and detectors for all of our led lamps 450W+30W Sodium needs 1920 KWH and gives far less illumination of the street surface

- * **L70 value** of LED is one point where the LED emitter keeps at least 70% of specified output in light flux. LED emitter is produced by Philips Holland.
- * **Meanwell led driver** is possible nr 1 in quality and reliability. MIL Spec is the most demanding procedure and we have over 100 000 hours MTBF / Mean time between failure. We have different models in different sizes and all are IP 65 or better and fully potted and sealed to water.
- * **Aluminum casing** is a solid piece of casted aluminum designed to remove heat from led emitter and power supply in best ways. It is well analysed in aluminum thickness to keep all inside as cold as possible. General rule say 7 C lower temperature double life time of components. We have an own special solution called cold finger that distribute and cool better.
- * **Anti corrosion design** is a key as after 10 years and up often corrosion make problems and finally stop lamp. Stainless screws and rubber gaskets keep moisture out. We have no screw connection inside unit as this is a weak point and only solder connections with sealed shrink hose at outside. This keeps corrosion out.
- * **Electricity and power** is the most costly part of operation. Often electricity is so costly that costs will pay a new lamp unit each less 2-3 years. Here we are possible by far the lamp with highest Lumen/ W ratio. Pls note many talk about LED flux inside lamp where we measure what really comes out of the lamp.
- * **Sodium and mercury lamps** Typically we save 75-90 % of electricity and offer same light quality at street surface. **HID lamps** we are over 50% better

Here is the very large earning in costs !

- * **No problem operation.** In real life we expect that if lamp is installed in a 20C night time temperature area with rainy and wet weather we will have a reclamation level first 10 years of less 0.25% / year and between 10-20 years 0.5%
- * **Warranty** We offer 5 years warranty for entire lamp.
- * **Financial solution** If all is a solid project we can often offer a financial solution that is attractive. Costs from day 1 is cheaper that todays budget as we get paid by savings of power alone. Contract is between 3 and 7 years. Pls discuss this with us !

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