



ZHAGA D4i CERTIFIED

NEW ECO PRO



future
proof

powered by VISIOCOM

MODERN,
EFFICIENT,
RELIABLE
COMPONENTS,
EXTENDED
WARRANTY,
READY
FOR THE FUTURE.

ECO PRO, local road, Czech Republic

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CONNECTED

The journey from standard lighting to “connected” to dynamic lighting is the result of the need to reduce consumption and ensure control.

For more information



[Click here](#)

DYNAMIC CONNECTED

CONNECTED

PROGRAMMABLE



Fully programmable lighting with the ability to adjust power consumption, dimming during the night, phase dimming, etc.



Connected lighting with remote management via integrated eSIM. Setup and control from anywhere in the world.



Connected lighting that responds to dynamic changes in traffic to maximize savings. Remote management via integrated eSIM. Setup and control from anywhere in the world.

1_FUTURE PROOF CONCEPT

LED luminaires are designed with reliable and long-lasting operation in mind. The luminaire is composed of individual prefabricated components that can be easily replaced at any time. Another important factor is the availability of spare parts for at least 10 years from the delivery of the luminaire.



Description

- A The luminaire body is made of highly durable cast aluminum with polyester powder paint RAL7022, meeting the ISO9227 test for resistance to salt water for 1,000 hours. Other colors on request.
- B Straight tempered glass with high transmittance and to ensure resistance against vandals. The glass is attached to the body of the luminaire with steel clips for easy replacement.
- C Surge protection 10KV, 20kV on request.
- D A stainless steel support to secure the cover ensures safe access to the LED modules and ballast from below.
- E Closing clip made of cast aluminum for tool-free entry into the luminaire.
- F QUICK system for quick and trouble-free replacement of the ballast. Integrated temperature protection. The ballast starts to reduce the luminous flux if the LED chips reach a critical temperature. At the customer's request, a sensor can be additionally installed on the PCB.
- G Silicone gasket and built-in valves ensure IP66 protection for the entire luminaire.
- H LED PCB board with CREE LED chips in 1800K, 2200K, 2700K, 3000K, 4000K, 5000K, 6000K with L90B10 lifetime of 118,000 hours. 16 optics available as standard for various types of illuminated areas.
Console made of cast aluminum, standard for side installation on Ø48mm. Universal console for vertical/horizontal installation on Ø48, Ø60 and Ø76mm for an additional charge.

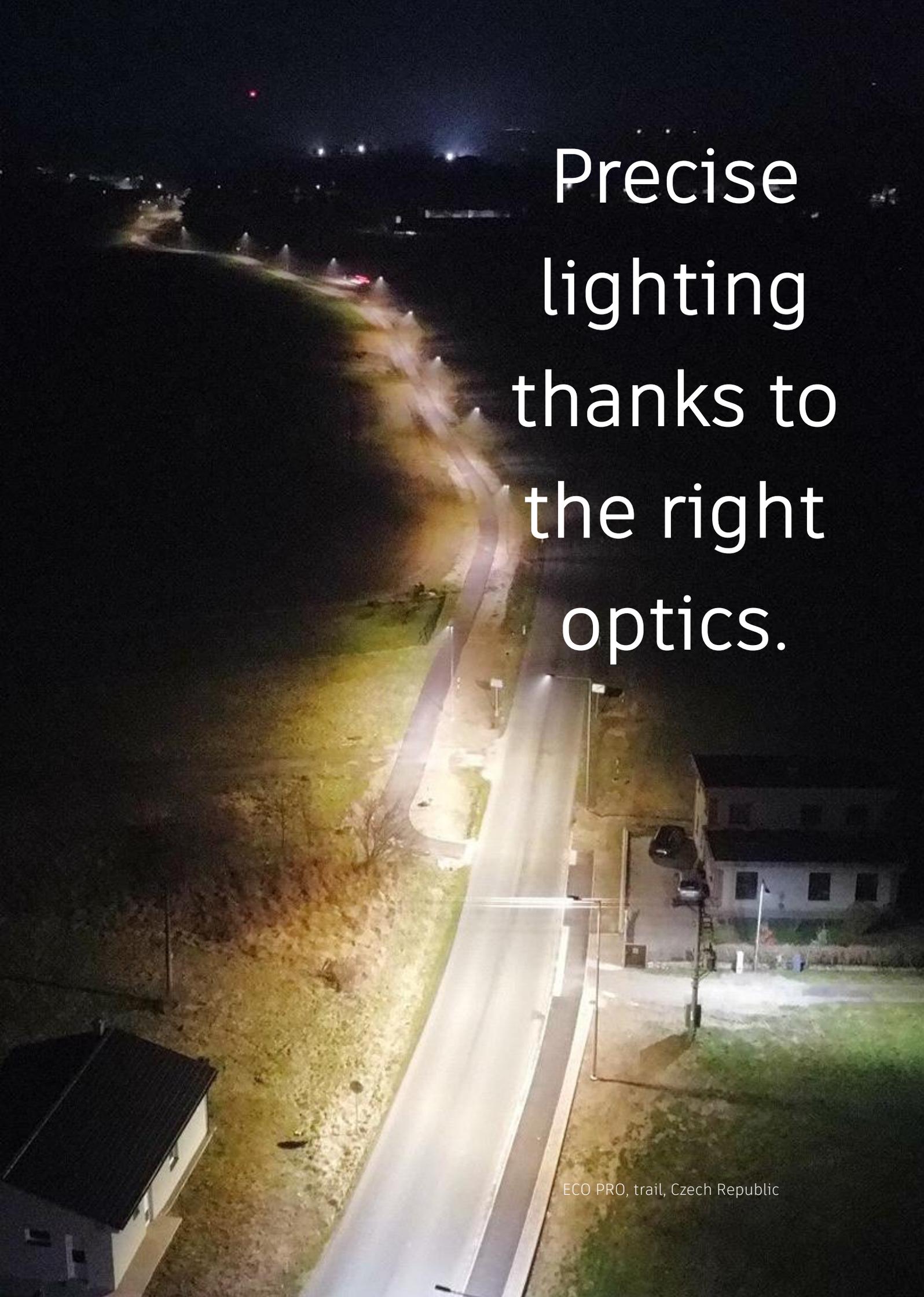
ZHAGA, 2xZHAGA or NEMA connector as accessories, ECO PRO 36 ZH2 luminaire shown



ECO PRO, main road, Czech Republic



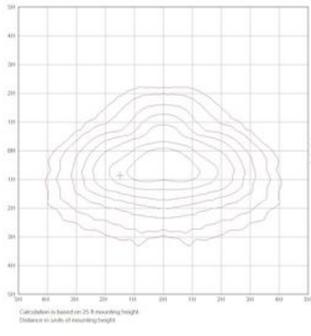
Custom optics to achieve optimal lighting in various situations.

An aerial night photograph of a winding trail illuminated by a series of spotlights. The lights create a bright path through the dark landscape, highlighting the terrain and surrounding vegetation. In the background, a building and other structures are visible under the night sky.

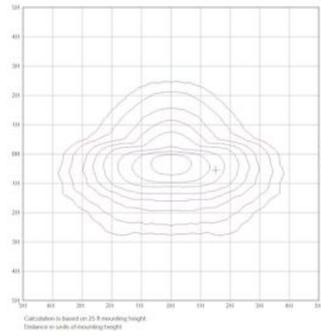
Precise
lighting
thanks to
the right
optics.

ECO PRO, trail, Czech Republic

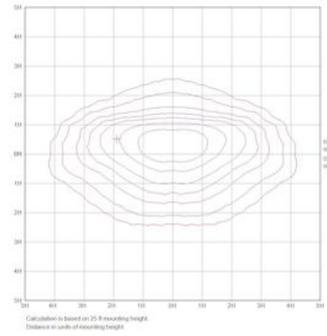
2_OPTICS



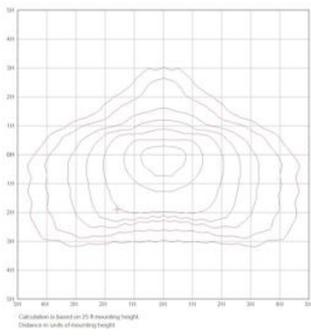
M1



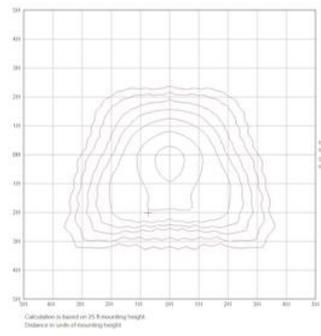
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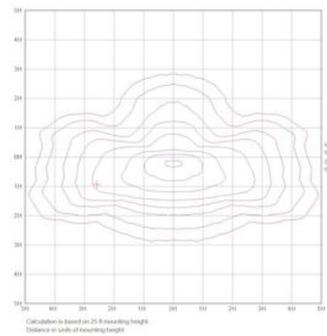
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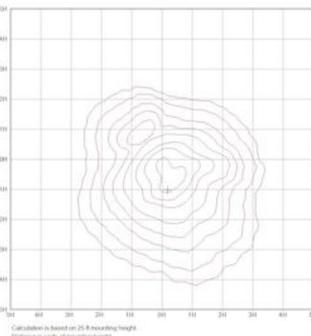
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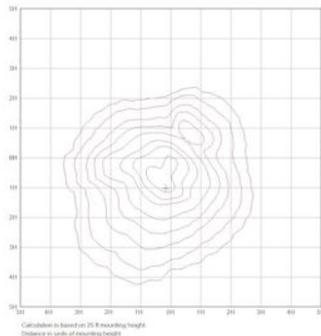
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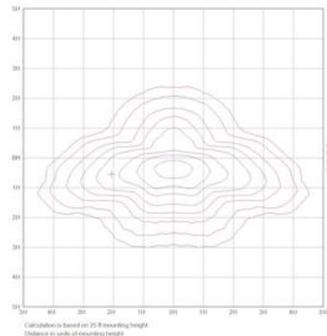
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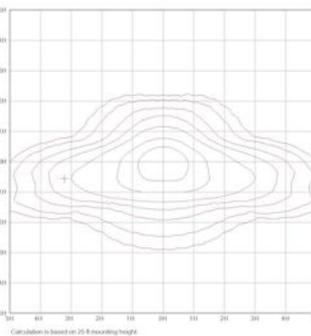
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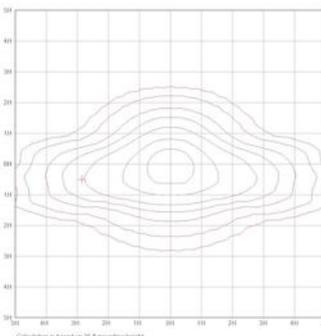
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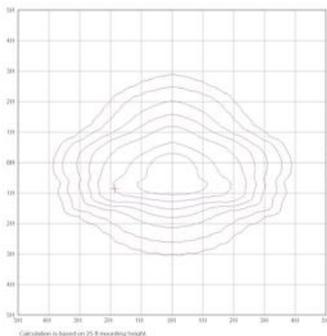
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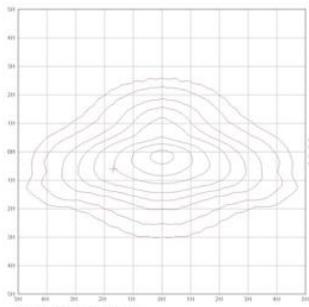
T1



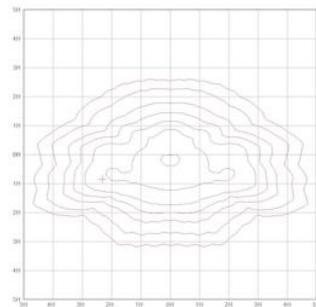
T1A



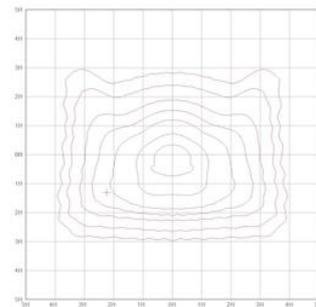
T2



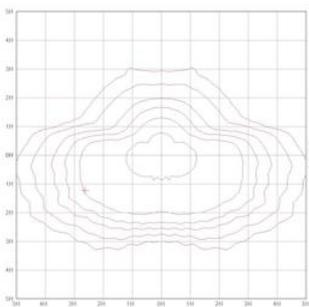
T2A



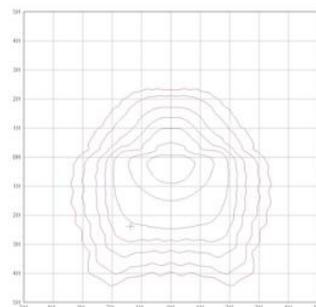
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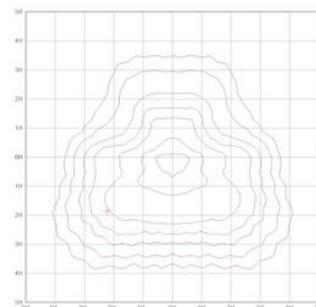
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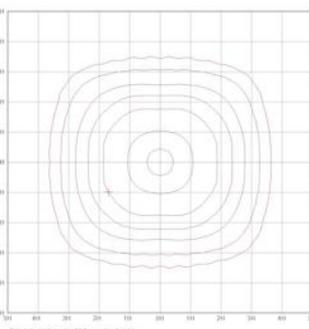
T3B



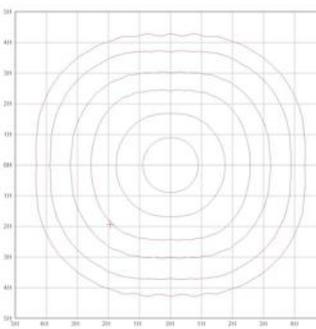
T4



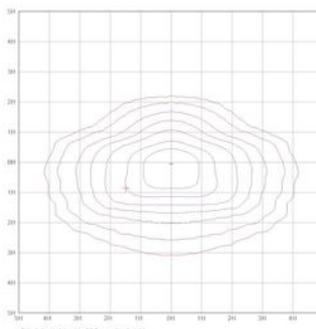
T4B



T5



T5B



VERB

Glare reduction screen
BLC-001

AMBER OPTICS
AMBER-XXX

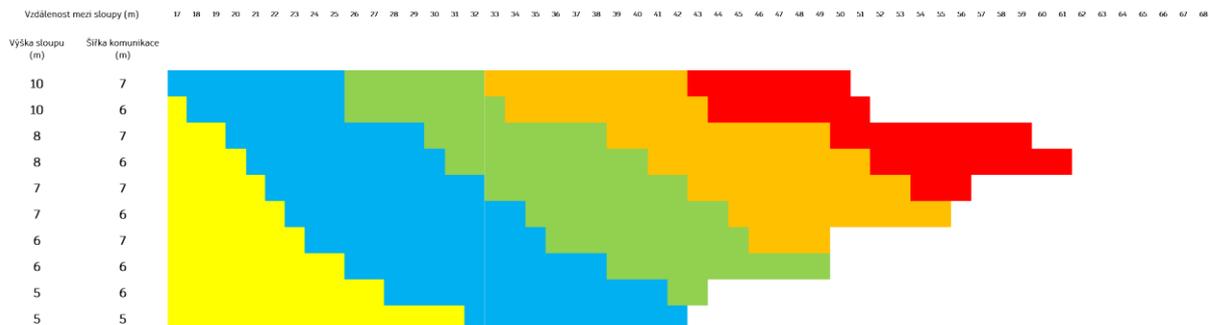


Příslušenství

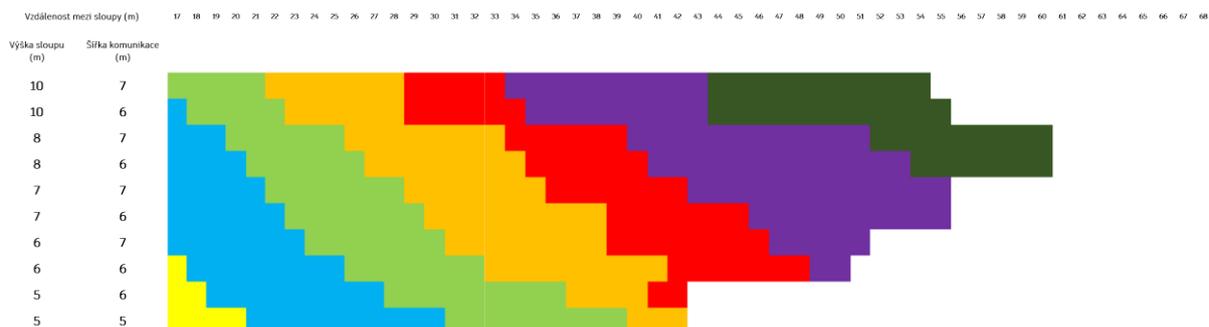
3_ WHAT LIGHT

ECO PRO 08	ECO PRO MIDI 64
ECO PRO 12	ECO PRO MIDI 56
ECO PRO 16	ECO PRO MIDI 48
ECO PRO 20	ECO PRO MIDI 40
ECO PRO 24	ECO PRO MIDI 32

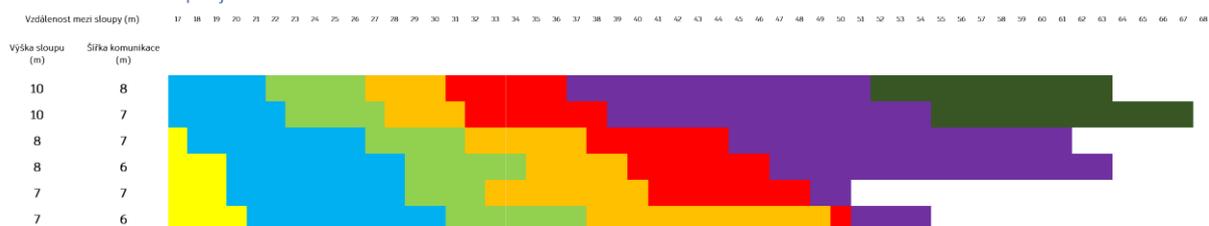
P4 - Reziđenční zóna běžná komunikace



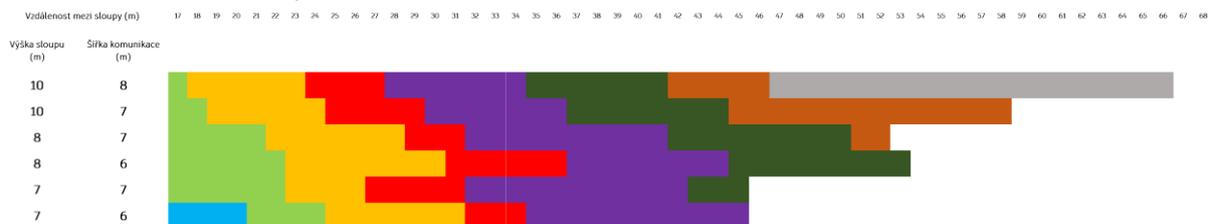
P3 - Reziđenční zóna sběrná komunikace



M5 - Menší město průjezdná komunikace



M4 - Středně velké město průjezdná komunikace



*Poznámka
Výpočty byly provedeny se světla ECO, CCT 4000K Ra70, při použití příslušných optik. Provedení výpočet je vzorový a uvedené údaje mají informativní charakter.

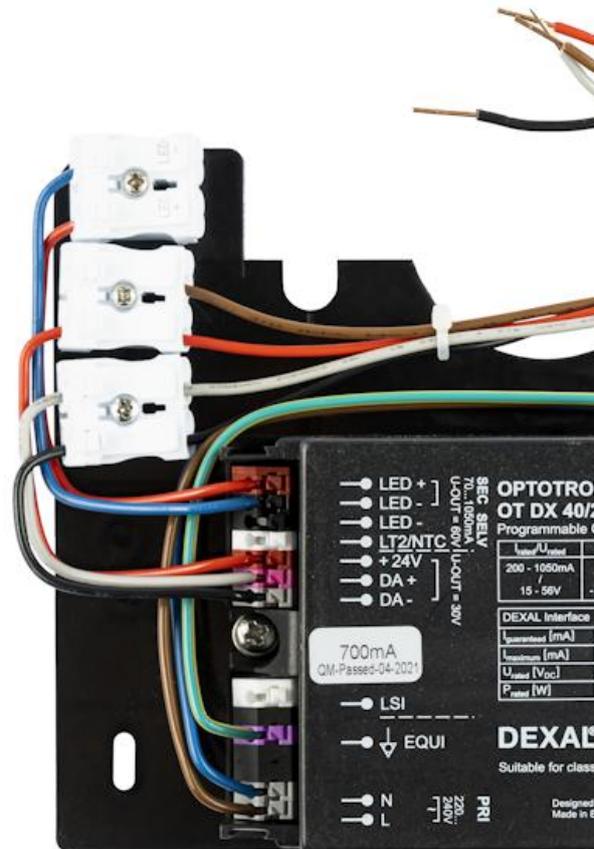
4_DRIVERS

The luminaires are equipped with proven ballasts from leading global manufacturers. Thanks to the modular concept, any replacement is very simple. The ballasts are on a separate board so that they are not affected by the heat dissipated through the luminaire body and at the same time so that their possible replacement on site is almost tool-free.



Branded
drivers with
programming
options

Replaceable at any
time without tools



5_TECHNICAL PARAMETERS

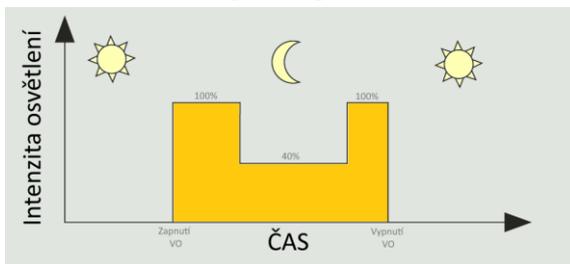
	ECO PRO	ECO MIDI PRO	ECO MAXI PRO
Number of LEDs (pcs)	8-36	40-64	72-96
Luminous flux (lm)	1.000-10.000	5.000-18.000	10.000-27.000
Power consumption (W)	10-80	50-150W	80-200W
Installation	Pole/boom, adjustable $\pm 15^\circ$		
Supply voltage	AC 175 ~ 264 V 50 / 60 Hz		
Connection method	terminal block		
Surge protection	10kV standard (20kV on order)		
Light source	LED CREE XPG3 / LED PHILIPS LUMILEDS 5050		
Initial luminous flux	10 ~ 200 W, variant SUPER up to 380W		
LED efficiency	Up to 169 lm/W (@ TJ =85°C,IF<600mA)		
LED lifespan	100.000 hours (L90B10 @ TJ =85°C,IF<400mA)		
Optics	PMMA, replaceable		
Driver	Philips, Osram, Tridonic		
Power factor	PF > 0,97 (ActivePFC)		
Protection class	Standard Class I, optional Class II		
Lamp cover	Tempered glass		
Color rendering (Ra70)	1800K, 2200K, 2700K, 3000K, 4000K, 5000K, 6000K, RGB		
Color rendering index	Ra70, on request Ra80, Ra90		
Light distribution type	16 basic optics		
Luminaire body	Die-cast aluminum		
Body color	RAL7022, other RAL colors on request		
Surface type	Powder paint		
IP protection	IP66		
IK resistance	IK09, IK10 on request		
Regulation (optional)	0-10V (standard) DALI (FP, 4DIMM) BLUETOOTH SmartCity IoT		
Accessories (connectors)	ZHAGA (1 or 2 connectors)	NEMA	
Accessories (optical part)	BLC – backlight reduction		
Operating temperature	-40°C to +50°C		
Standards	EN 60598-1:2015 + A1:2018 EN 60598-2-3:2003 + A1:2011 IEC TR 62778:2014 IEC 62471 IEC 61547:2009 IEC 61000-3-2:2018 IEC 61000-3-3:2013 + AMD1 EN 55015:2013 + AMD1 EN61547:2009 EN61000-3-2:2014 EN61000-3-3:2013		
Warranty	5 let/10 let/15 let/20 let 100.000 hours (contractual partners)		
	ECO PRO	ECO MIDI PRO	ECO MAXI PRO
Luminaire dimensions	458 x 240 x 100 mm	590 x 314 x 130 mm	730 x 340 x 140mm
Weight of the luminaire	5kg	7kg	9kg
EPA	0,04m2	0,06m2	0,07m2

6_AVAILABLE TECHNOLOGY

Moderní The technology may not be

unavailable. The basic version of the luminaires already includes the option of programming individual luminaire parameters, which makes it possible to achieve further significant savings, including extending their service life.

Dimming lights during the night

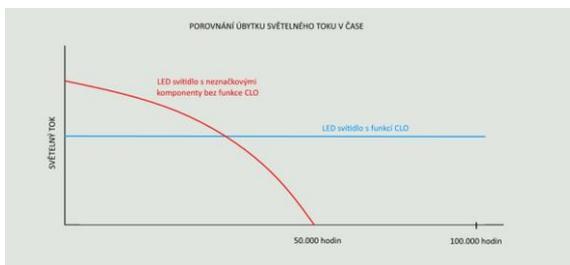


It makes sense to regulate lighting at night. At night, only a very small number of road users are on the roads. Night dimming can save up to 35% on the electricity consumed, and the technical standard for road lighting even recommends dimming.

There are several ways to regulate the luminous flux at night. The most commonly used is automatic autonomous dimming without the need for operator intervention. The main advantage of ECO PRO luminaires is that all luminaires in this series include this function.

The operator of the public transport system can decide whether to use our standard schedule or use their own.

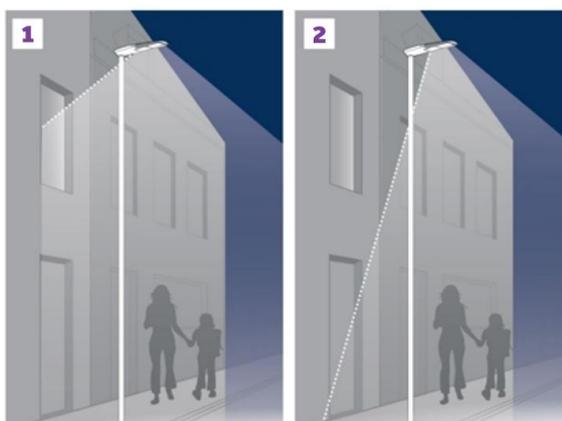
Constant luminous flux



LED light sources lose their ability to convert electrical energy into light over the course of their lifetime. This decrease in luminous flux can be compensated for by gradually increasing the power input of the luminaire.

The result is a constant luminous flux of the luminaire, thus eliminating over-illumination of the space. Savings on energy consumption achieved by the constant luminous flux function are up to 10%. This function is standard in ECO PRO luminaires.

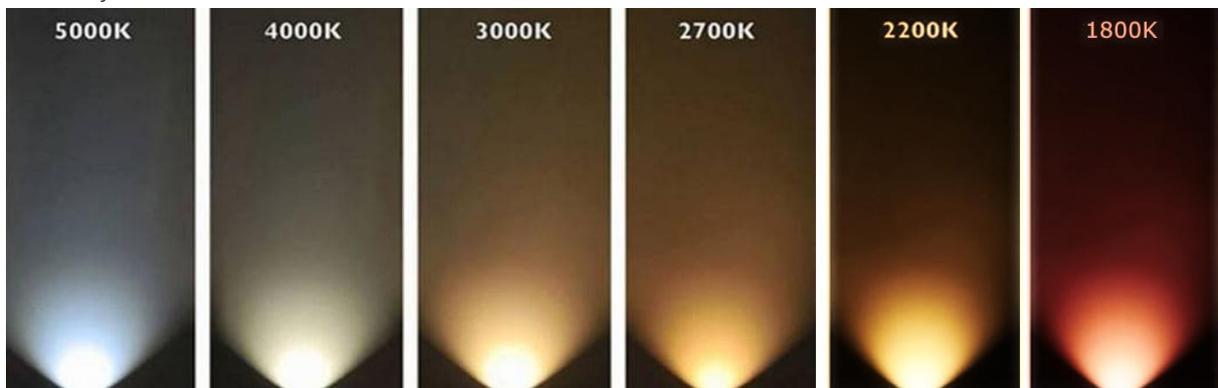
Backlight control



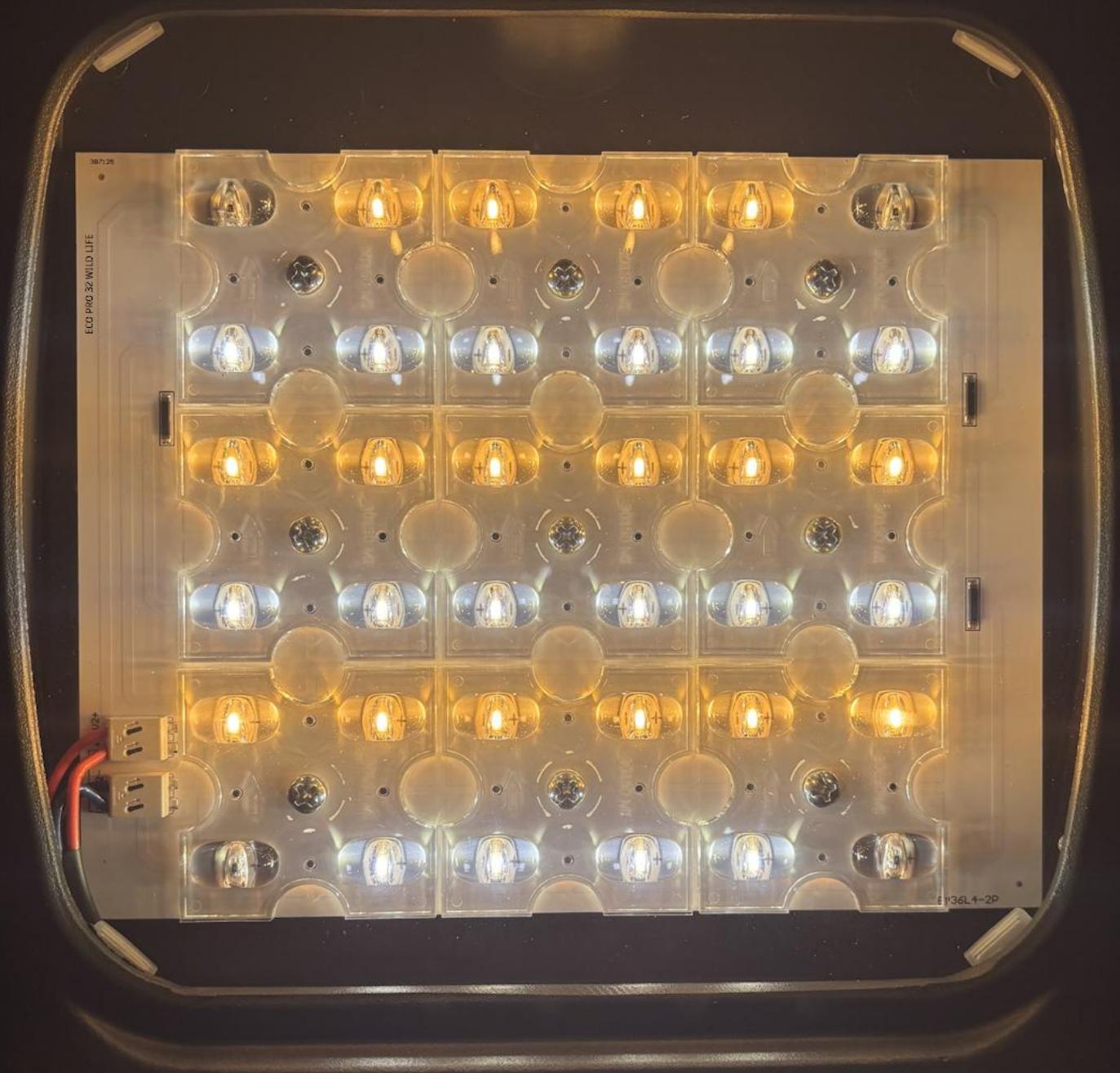
As an option, the LED modules can be equipped with a BackLight control system. This additional function minimizes light leakage behind the luminaire to prevent disturbing light towards buildings.

7_CORRELATED COLOR TEMPERATURE

This parameter indicates the shade of white generated by LED light sources. The most common shade is neutral white (4000K), which suits most urban spaces. Warm white shades (3000K) are suitable for areas with a predominant presence of pedestrians and cyclists. Warm white (2700K) is suitable for residential areas. AMBER temperature (1800K) is suitable for protected landscape areas. Cold white (above 5000K) is used mainly for pedestrian crossings and is unsuitable for ordinary urban environments.



LED color rendering index						
	5000K	4000K	3000K	2700K	2200K	1800K
Ra70	750	740	730	727	722	AMB
Ra80		840	830			
Ra90		940	930			



WILD LIFE series

8_WILD LIFE

The unique technology of ECO PRO public lighting fixtures allows to ensure suitable conditions for the night life of people, animals and plants. The fixtures can be set autonomously or remotely to change the color rendering with a smooth transition up to 1800K.



18:00



21:00



22:00



0:00

9_PROGRAMMING OPTIONS

ECO PRO LED street lighting luminaires are factory-programmed according to the project (lighting intensity, constant luminous flux, etc.) and customer requirements. Thanks to smart technologies, the luminaires and their settings can be adjusted even after installation by the installer.



Luminaire settings can be made using specialized software and a reader (for setting all parameters), or via a mobile phone with an application for setting selected parameters (power settings, dimming schedule, etc.). Available for luminaires with a basic range of ballasts.



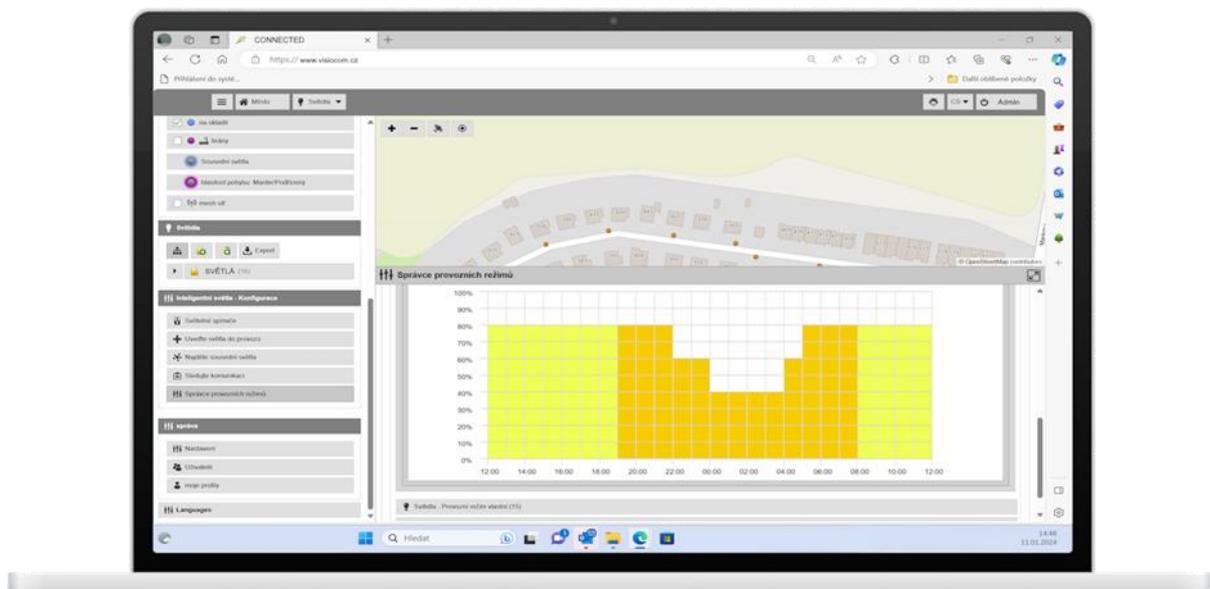
Setting, modifying the parameters of the luminaires, reading their status is possible via a PC and connecting the luminaires via the DALI digital protocol. Available for luminaires with DALI ballasts.



Management of individual luminaires or groups of luminaires can be carried out via an application on a smartphone via Bluetooth. Possibility of setting various parameters. Available for luminaires equipped with SmartCity controllers and compatible ballasts.



A modern system for remote management of public lighting fixtures with the ability to control them from anywhere in the world. Secure communication between individual fixtures without the need to build additional transmitters or modify existing switchboards. Discover the advantages of the CONNECTED system with prepaid operation for up to 10 years with the possibility of further extension. Connection using the ZHAGA connector.



10_VisioTAG

Each luminaire is easily identifiable thanks to the unique [VisioTag](#).

This is a QR code that stores all essential information such as luminaire type, optics, power consumption, programmed dimming schedule, delivery date, invoice/delivery note number, etc.

Even after a long time, all information is available without unnecessary searching.

To find out the information stored in the QR code, you can use any freely available QR code reading application.

Other information that the VO operator considers important can also be stored in the VisioTag.



11_WARRANTY

At Visiocom s.r.o. we believe in our products. We have been operating on the market since 2009 and during this time we have supplied a number of public lighting fixtures. Based on our real experience, we know what our fixtures can do and that they are ready

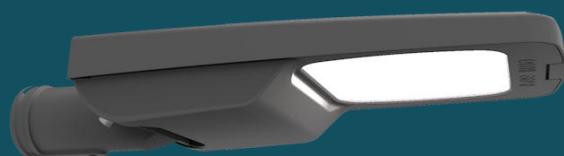
A standard 5-year warranty is provided for ECO PRO fixtures with the option of extension to 10, 15 or 20 years.

ECO PRO luminaires come with up to 20 years warranty..



For more information about the warranty, please contact your supplier or visit www.visiocom.cz.

Click for more information:



Visit us also here:



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