



PRODUCT FEATURES

1. Traditional luminaire specially designed for the lighting of old and historic urban centers.
2. High pressure aluminum casting body with powder-coated lacquered powder coating resistant to corrosion
3. Structure with internal dissipator to offer a smooth surface to the outside, avoiding the accumulation of dirt over time and the loss of thermal dissipation.
4. Connectable technology, ease of replacement of components in case of breakage or failure.
5. Programmable intelligent electronic driver with numerous flow control and regulation systems, and integrated protection systems.
6. Led-by-pass technology: If a led is damaged, it does not affect the rest, nor does it increase its operating current.
7. Great diversity of optics and powers for each application.

PRODUCT ICONS FEATURE



General Information

Product Range: Street lighting
 Product Family: Classic urban
 Product Model: VA
 Series Reference: EXCVA4
 Warranty: 5 years
 Lifespan @ Ta=25°C: L70 - L80 F10 100.000 h
 Lifespan @ Ta=40°C: L70 - L80 F10 80.000 h

Electric Specifications

Voltage (V): 80-280V AC
 Frequency (Hz): 50-60 Hz
 Power Factor (PF): >0.95
 Power Efficiency (PE %): >90%
 Flicker (%): 0%
 Total Harmonic Distortion (THD %): <20%
 Protection Class: II

Light Specifications

System Luminous Efficacy (lm/W): 120-130 lm/W ±10%
 Color Render Index (CRI >Ra): 80
 Correlated Color Temperature (CCT °K): 2200K-6000K
 Color Consistency (SDCM): <±5
 Beam Angle (Degree): Different options regarding lens type
 Upper Light Output Ratio (ULOR %): <1%

Protection Specifications

Pressure & Condensation Protection: Ventilation valve
 Optical Compartment Tightness (IP): IP68
 Auxiliary Compartment Tightness (IP): IP68
 Impact Resistance (IK): IK08
 Surge Protection: Basic 40kV/Extended 120kV

Application Conditions

T1 Temperature (°C): <80°C @ Ta=25°C
 T2 Temperature (°C): <100°C @ Ta=25°C
 Storage Temperature (°C): -40°C +85°C
 Operating Temperature (°C): -40°C +60°C
 Operating Humidity (NARH): 5-95%RH

Control And Communication

Constant Light Output (CLO): Optional
 Dimming Function: 0-10V/PWM/DALI/Timer/ACDM/PLC/ZIGBEE/LORA

Installation And Maintenance

Type: Top fitting
 Fixing To Existing Pole: Yes
 System: Fixation to wing nut or post Ø70mm
 Vertical Angle Adjustment: No
 Mounting Height: 4-6M
 Horizontal Angle Adjustment: Yes
 Replaceable Light Source: Yes
 Replaceable Driver: Yes
 Replaceable Lens: Yes
 Replaceable Cover: Yes
 Housing Opening System: Stainless steel screws
 Wire Connectors System: Waterproof threaded fastener connector

PCB

PCB Type: MC-PCB
 PCB Material: Aluminium
 Thermal Vias: Yes
 Led Bypass Protection: Yes
 Overheating Protection: NTC Thermistor

LED

Brand: Philips, Lumileds
 Type: SMD
 Model: S535
 Max. Luminous Efficacy (lm/W): 179 lm/W

Driver

Brand: Inventronics, Philips, Meanwell (Optional)
 Series Type: EUC/EBG/Other series optional
 Isolated or Not: Isolated
 IP: IP67
 Lifespan @ Ta=40°C: 100,000 h
 Surge Protection: 4 kV, 10kV
 Overload and Short Circuit Protection: Yes
 Thermal Feedback Control: Optional

HeatSink

Thermal Interface Material (TIM): Yes
 Body Material: Aluminium
 Fins Material: Aluminium
 Extra Cooling System: The entire structure of the luminaire

Housing

Body Material: Cast aluminum high pressure
 Finishing: Anti-corrosion paint
 Color: RAL Grey/Black/Other optional

Optical

Lens Material: PMMA
 Reflector Material: Aluminium
 Diffuser Material: Tempered safety glass (optical block)

Wire Connection

Cable Material: 3 * 1.0mm rubber with cold pressed terminal
 Connectors System: WAGO quick connector

APPLICATION

- Parks
- Lighting of avenues
- Streets
- Roundabouts
- Squares

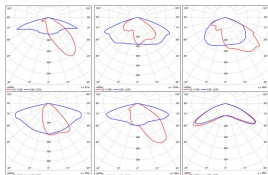
PRODUCT PARAMETERS

Reference	Typical Power	W	Current (A)	System Voltage (V _{sys})	Equivalent Power (W)				System temperature (°C) T _a =25°C	L ₉₀ (h)	L ₈₀ (h)	Dimmerless	Height (m)
					IP 10000h	IP 40000h	IP 50000h	IP 60000h					
ECLINO	20W	1.2	80mA	130 mV/W ±20%	3475	2634	2725	2807	100 F10 100.000h	+62°C	S40*90mm	5	
	35W		150mA	125 mV/W ±20%	3570	2769	2845	2926	100 F10 100.000h	+68°C			
	45W		180mA	130 mV/W ±20%	4370	4982	5050	5127	100 F10 100.000h	+70°C			
	20W	1.6	78mA	128mV/W ±20%	3058	3960	4042	4104	100 F10 100.000h	+62°C			
	35W		150mA	125 mV/W ±20%	4740	5560	5740	5920	100 F10 100.000h	+68°C			
	50W		180mA	123mV/W ±20%	6790	8120	8280	8440	100 F10 100.000h	+68°C			
	45W	2.4	80mA	130 mV/W ±20%	4990	5268	5470	5673	100 F10 100.000h	+62°C			
	100W		160mA	127mV/W ±20%	8545	8433	8680	8608	100 F10 100.000h	+62°C			
	60W		120mA	125 mV/W ±20%	7140	7598	7690	8140	100 F10 100.000h	+68°C			
	80W	3.2	78mA	128mV/W ±20%	7112	7796	8079	8379	100 F10 100.000h	+62°C			
	90W		120mA	125 mV/W ±20%	8520	10330	10560	10800	100 F10 100.000h	+68°C			
	100W		130mA	123mV/W ±20%	11018	12057	12226	12381	100 F10 100.000h	+70°C			

PRODUCT CONFIGURATOR

Code	Power	Light CCT	Voltage	Beam	Color Fin	Control	Accessories
ECLINO	100W	AMB2	120V	LBT1	Black	0-10V	ESP2001
	35W	2200K	120V-120V	symmetric distribution 1		Dimming 0-10V	Photometric control sensor INTCS4T12
	45W	AMB	240V	LBT2	Grey	0-10V	External surge protection device 20kV INTCS4T12
	60W	1700K	230V-240V	symmetric distribution 2		Constant Light Output	PP-1800040PV External surge protection device 20kV INTCS4T12
	80W	CW	300V	LBT3		0-5x0-10V/PWM/Tonor	PP-20K External surge protection device 20kV INTCS4T12
	90W	4000K	170V-300V	symmetric distribution 3		0-10V/PWM/Tonor	
	60W	HTV	300V	LBT4		0-10V/PWM/Tonor	
	80W	4000K	240V-120V	symmetric distribution 4		0-10V/PWM/Tonor	
		PW	300V	LBT5		symmetric distribution 5	
		5000K	30V-200V	LBT6		symmetric distribution 6	
		WF	2000K	LBT6		symmetric distribution 6	

LIGHT DISTRIBUTION IMAGE



Accessories

PRODUCT DIMENSIONS



PACKING SPECIFICATIONS

Code	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	Weight (kg)	Weight (kg)	Weight (kg)
VA-D	1	760	350	350	6		
VA-D	1	760	350	350	6		
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