Villa Royal XLA Comfort



ENEC · CB Certificate · NOM · AENOR · ISSOP · CE · UKCA · Zhaga Consortium

Villa Royal XLA Comfort

High-Impact Tropicalized Transparent Thermo-Polymer T5



Lighting performance superior to glass, and 200 times more resistant.

Chemical polishing for maximum transparency and transmittance.

Exceeds impact tests above 50 joules –more than twice the standard set by IK EN 62262–

Reinforced Engineering Technical Polymer S7



Immune to corrosion and degradation caused by atmospheric agents.

Withstands tropical storms, constant humidity, electrocution, salt exposure, and even fire.

The material has been subjected to 3000 hours of UV radiation without showing any color alteration.

Villa Royal XLA Comfort



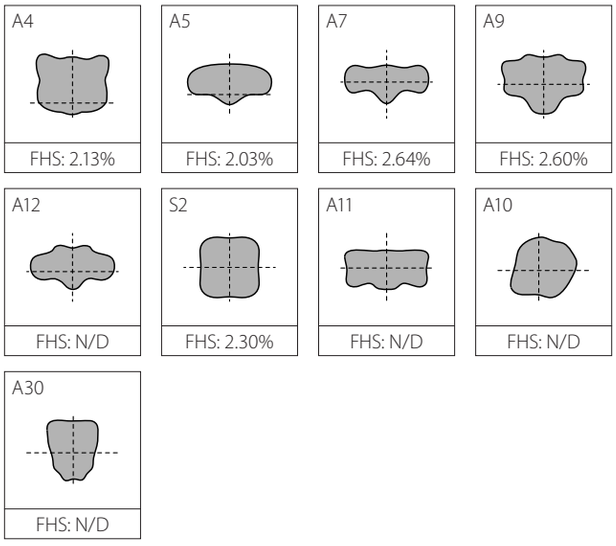
Technical characteristics

Maximum recommended height	8 m
Weight	6.7 kg
Wind surface	1780 cm^2
Coupling	50 / 60 / 75 mm
Insulation class	Class II
Full warranty	10 years
IK protection rating	IK10
IP protection rating	IP66+IPX9
Laminar Heatsink®	Yes
Photocell option	Yes
Zhaga / Nema compatible connector	Yes
Diffuser type	Comfort Diffuser®

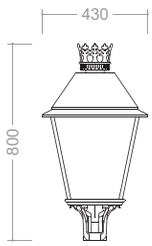
Standard colors (*)



Optics ()**



Dimensions



Power configurations

LED15	LED25	LED35
LED55	LED75	LED100

Color temperature / CRI

1800 K / IRC 70	2200 K / IRC 70
2700 K / IRC 70	3000 K / IRC 70
4000 K / IRC 70	PC AMBAR / IRC 58

2025.11.10

* OTHER COLORS AVAILABLE ON REQUEST
** OTHER OPTIONS AVAILABLE ON REQUEST

Villa Royal XLA Comfort

Certificates and Approvals

Technical	Values
Manufacturing materials	Non-conductive and stainless housing materials, resistant to 3,000 hours in a UV chamber (according to UNE 53104) without showing any color alteration. Tropicalized transparent high-impact T5 polymer diffuser, UV-stabilized. Confort® Diffuser specially designed to prevent LED glare issues.
Dimensions	430 x 430 x 800
Isolation class	Electrical insulation level of the luminaire: Class II according to UNE-EN 60598 standard.
Upward flux fraction (UFF)	2.64%
Lifetime	Luminaire lifespan of 100,000 hours when operating at an average ambient temperature of 25°C.
Operating temperature range	Operating temperature range from -30 to +35°C.
IP degree	Protection rating of the entire enclosure, including the optical assembly, IP66 + IPX9 (15°C) according to UNE-EN 60598 standard.
IK degree	IK10 rating across the entire luminaire, resistant to 20-joule impacts according to UNE-EN 62262 standard.
Light source	Light source with high-power LEDs.
Available optics	A4, A5, A7, A9, A12, S2, A11, A10, A30
CCT and CRI	1800 K IRC>70, 2200 K IRC>70, 2700 K IRC>70, 3000 K IRC>70, 4000 K IRC>70, PC AMBAR IRC>58
Certifications	CE, UKCA, NOM, N, IECEE, ENEC, ISSOP, Zhaga, NEMA

CE	European Conformity Mark.	NOM	NOM: Official Mexican Standards.
N	N: Spanish Association for Standardization and Certification.	IECEE	IECEE CB: IIEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (Conformity assessment of systems for electronic equipment and components).
ENEC 01	ENEC: European Norms Electrical Certification.	UK CA	UK Conformity Assessed
ISSOP	ISSOP: Seal (Sustainable Innovation without Planned Obsolescence).	ZHAGA Community Member	Zhaga Community Member.

2025.11.10

Villa Royal XLA Comfort

Technical specifications

Non-conductive and stainless housing materials, resistant to 3,000 hours in a UV chamber (according to UNE 53104) without showing any color alteration. Tropicalized transparent high-impact T5 polymer diffuser, UV-stabilized. Confort® Diffuser specially designed to prevent LED glare issues. One-piece diffuser with four flat sides that provides a complete seal over the LED optics. nan IK10 rating across the entire luminaire, resistant to 20-joule impacts according to UNE-EN 62262 standard. Protection rating of the entire enclosure, including the optical assembly, IP66 + IPX9 (15°C) according to UNE-EN 60598 standard. Electrical insulation level of the luminaire: Class II according to UNE-EN 60598 standard. Seamless polyurethane gasket without degradable adhesive. Minimum diffuser thickness of 3.5 mm or greater in all areas. Connection system using double-insulated (reinforced insulation) cable of 2x0.75 mm^2 or 2x1.5 mm^2 upon request. At the end, an IP68 watertight connector compliant with International Standard IEC 60529, UNE-EN 60598-1, or equivalent ANSI standard. Stainless steel screws. Luminaire external dimensions: 430 x 430 x 800 mm (Length x Width x Height). Minimum luminaire efficiency: 81.9. Upper hemisphere flux (FHS) lower than 2.64%. Photometric information available in American electronic format (IES) or European format (LDT). 100% recyclable luminaire. Standard available color temperatures and CRI: 1800 K IRC>70, 2200 K IRC>70, 2700 K IRC>70, 3000 K IRC>70, 4000 K IRC>70, PC AMBAR IRC>58. Light source with high-power LEDs. Luminaire lifespan of 100,000 hours when operating at an average ambient temperature of 25°C. Operating temperature range from -30 to +35°C. LED module luminous flux maintenance: L90 > 100,000h at 25°C ambient temperature and drive currents of 700mA or lower. Standard available optics: A4, A5, A7, A9, A12, S2, A11, A10, A30. Nominal input voltage range: 220~240VAC (supports 198~264VAC). Line frequency: 50/60Hz. Power factor: ≥0.98 (@ 230VAC). THD (@ 230VAC) < 8%. LED drive current: constant current. Programmable electronic control gear. Constant current driver capable of storing a profile to autonomously regulate the luminaire's power. This profile can be modified either through external programming via PWM pulses by accessing the column junction box, or from the control panel using network pulses, allowing the behavior of all luminaires connected to the same line to be changed. Surge protection of 6kV/3kA in differential mode (between line and neutral) in accordance with EN 61547-5-7 standard. CE, UKCA, NOM, N, IECEE, ENEC, ISSOP, Zhaga, NEMA Node with a Zhaga/NEMA-based telemanagement system inside the luminaire; it does not alter the product certifications since there is no modification to the luminaire's enclosure, and it provides additional protection for the node. The polymer enclosure does not interfere with radio frequency or Bluetooth communication systems.

2025.11.10

Villa Royal XLA Comfort

Photometric data

Fluxes and power @ 1800 K - IRC 70 (A5)	LED15	LED25	LED35	LED55	LED75	LED100
Total luminous flux at 25°C (Lm)	1320 Lm	2199 Lm	3388 Lm	4477 Lm	5473 Lm	8956 Lm
Luminaire efficacy (Lm/W)	79.99 Lm/W	81.44 Lm/W	89.16 Lm/W	84.48 Lm/W	72.97 Lm/W	87.80 Lm/W
Total luminaire power (W)	16.5 W	27.0 W	38.0 W	53.0 W	75.0 W	102.0 W
Number of LED modules	12 LED	12 LED	24 LED	24 LED	24 LED	48 LED
LED driving current	400 mA	700 mA	500 mA	700 mA	980 mA	700 mA

Fluxes and power @ 2200 K - IRC 70 (A5)	LED15	LED25	LED35	LED55	LED75	LED100
Total luminous flux at 25°C (Lm)	1589 Lm	2608 Lm	3959 Lm	5279 Lm	6952 Lm	10557 Lm
Luminaire efficacy (Lm/W)	96.33 Lm/W	96.61 Lm/W	104.18 Lm/W	99.60 Lm/W	92.69 Lm/W	103.50 Lm/W
Total luminaire power (W)	16.5 W	27.0 W	38.0 W	53.0 W	75.0 W	102.0 W
Number of LED modules	12 LED	12 LED	24 LED	24 LED	24 LED	48 LED
LED driving current	400 mA	700 mA	500 mA	700 mA	980 mA	700 mA

Fluxes and power @ 2700 K - IRC 70 (A5)	LED15	LED25	LED35	LED55	LED75	LED100
Total luminous flux at 25°C (Lm)	1730 Lm	2808 Lm	4276 Lm	5683 Lm	7477 Lm	11366 Lm
Luminaire efficacy (Lm/W)	104.85 Lm/W	103.99 Lm/W	112.54 Lm/W	107.23 Lm/W	99.69 Lm/W	111.43 Lm/W
Total luminaire power (W)	16.5 W	27.0 W	38.0 W	53.0 W	75.0 W	102.0 W
Number of LED modules	12 LED	12 LED	24 LED	24 LED	24 LED	48 LED
LED driving current	400 mA	700 mA	500 mA	700 mA	980 mA	700 mA

Fluxes and power @ 3000 K - IRC 70 (A5)	LED15	LED25	LED35	LED55	LED75	LED100
Total luminous flux at 25°C (Lm)	1846 Lm	3022 Lm	4630 Lm	6153 Lm	8071 Lm	12306 Lm
Luminaire efficacy (Lm/W)	111.87 Lm/W	111.92 Lm/W	121.85 Lm/W	116.09 Lm/W	107.61 Lm/W	120.64 Lm/W
Total luminaire power (W)	16.5 W	27.0 W	38.0 W	53.0 W	75.0 W	102.0 W
Number of LED modules	12 LED	12 LED	24 LED	24 LED	24 LED	48 LED
LED driving current	400 mA	700 mA	500 mA	700 mA	980 mA	700 mA

Fluxes and power @ 4000 K - IRC 70 (A5)	LED15	LED25	LED35	LED55	LED75	LED100
Total luminous flux at 25°C (Lm)	1875 Lm	3059 Lm	4658 Lm	6228 Lm	8155 Lm	12456 Lm
Luminaire efficacy (Lm/W)	113.62 Lm/W	113.30 Lm/W	122.59 Lm/W	117.51 Lm/W	108.73 Lm/W	122.12 Lm/W
Total luminaire power (W)	16.5 W	27.0 W	38.0 W	53.0 W	75.0 W	102.0 W
Number of LED modules	12 LED	12 LED	24 LED	24 LED	24 LED	48 LED
LED driving current	400 mA	700 mA	500 mA	700 mA	980 mA	700 mA

2025.11.10

Villa Royal XLA Comfort

Photometric data

Fluxes and power @ PC AMBAR - IRC 58 (A5)	LED15	LED25	LED35	LED55	LED75	LED100
Total luminous flux at 25°C (Lm)	1202 Lm	1948 Lm	2932 Lm	3967 Lm	5083 Lm	7934 Lm
Luminaire efficacy (Lm/W)	72.88 Lm/W	72.16 Lm/W	77.15 Lm/W	74.85 Lm/W	67.77 Lm/W	77.79 Lm/W
Total luminaire power (W)	16.5 W	27.0 W	38.0 W	53.0 W	75.0 W	102.0 W
Number of LED modules	12 LED	12 LED	24 LED	24 LED	24 LED	48 LED
LED driving current	400 mA	700 mA	500 mA	700 mA	980 mA	700 mA

2025.11.10

ATP

10-year warranty immune to corrosion street lighting

ISO 9001 Quality Management

ISO 14001 Environmental Management

ISO 45001 Occupational Health and Safety Management

Alumbrado Técnico Público S.A.

Avenida de Irún, 33 · 31194 · Arre (Navarra), Spain | Tel. (+34) 948 330 712
info@atpiluminacion.com | www.atpiluminacion.com