





Terreno

Street luminaires

Engineered from the base up with environmental consciousness and energy efficiency in mind, AVADA's Terreno series, developed specifically to fulfill the demanding conditions of road and street lighting applications, are highly flexible and can be easily retrofitted onto existing street lighting infrastructure making it a state-of-the-art technology that is practical and most affordable.

Industry leading optical technology that minimizes light pollution and optimizes light distribution ensures that only the targeted areas are illuminated, reducing unwanted light trespass and sky glow. This characteristic ensures Terreno's compliance to the Dark Sky requirements modules but it also acts as the primary thermal management device, eliminating the need for additional and sometimes bulky heat sinks while improving the overall performance and extending the life span of the LEDs. Stainless steel fasteners in grade 316.

Durable silicone rubber gasket and impact resistant toughened glass diffuser. The luminaire is treated with a chemical chromatised protection before powder coating, ensuring high corrosion resistance.

La serie Terreno de AVADA, desarrollada específicamente para satisfacer las exigentes condiciones de las aplicaciones de iluminación de carreteras y calles, es altamente flexible y puede ser fácilmente adaptada a la infraestructura existente de iluminación de calles. La tecnología óptica líder en la industria que minimiza la contaminación lumínica y optimiza la distribución de la luz, que solo las áreas objetivo son iluminadas, reduciendo la luz no deseada y el brillo del cielo. Esta característica garantiza la conformidad de Terreno con el Cielo Oscuro Requisitos. Pero también actúa como el principal dispositivo de gestión térmica, eliminando la necesidad de disipadores de calor adicionales ya veces voluminosos mientras

Mejorando el rendimiento general y extendiendo la vida útil de los LEDs. Cierres de acero inoxidable en grado 316.

Caucho de silicona durable Empaquetadura y difusor de vidrio templado resistente al impacto. La luminaria se trata con una protección química cromatizada antes del revestimiento en polvo, Asegurando una alta resistencia a la corrosión.

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Applications

- Major roads: within and between cities, up to Me3 lighting class
- Minor roads: mixed traffic and residential streets
- Walking/cycling paths, car parks and roundabouts

Light Source

- From 12 LED to 106 LED
- 100 000hrs Drivers and LEDs (L90) at Ta25°C
- Luminaire efficacy up to 130Llm/W
- Up to 24000lm (180W)
- Colour Temperature 4000K but also 3000K and 5700K
- CRI: 70
- McAdams: 5 Ellipses
- Surge protection: 6kV mostly, 10kV on request.

Materials / Finish

Performance version: Canopy: die-cast aluminium, powder coated grey RAL 9006 (other RAL colours on request) with rear clip in stainless steel.
Basic version with canopy in glass reinforced polycarbonate, RAL 9006 with antigalvanic stainless steel screws
Body: die-cast aluminium unpainted
Spigot: plain die-cast aluminium
Enclosure: toughened glass
Screws: stainless steel



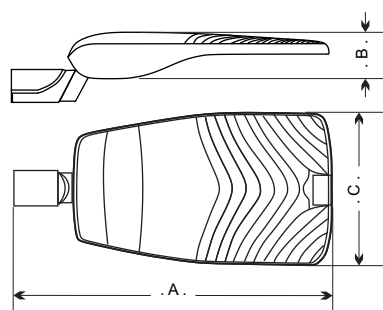
Installation / Mounting

CL1: Suitable for mounting on top Ø76mm or side Ø60mm or Ø42mm (Ø60mm delivery with reducer MA34/42mm fitted)
CL2: Suitable for mounting on top Ø76mm or side Ø60mm (Ø34/42mm with accessory 96261772)
Variable tilting setting: 0° to +10° on post top mounting and -20° to 0° on lateral mounting, in 5° steps.
Accessory to set at horizontal 0° the luminaire when retrofitted in side entry onto 45° tilt arm
Cable gland for Ø8 to 12mm cable. Delivered complete and ready to install, all supplied in a single carton

Standards



Dimensions



	Power Watt	Length A longitud	Height B altura	Width C anchura
Terreno M	50	680mm	115mm	283mm
	70	680mm	115mm	283mm
	90	680mm	115mm	352mm
Terreno MX	120	763mm	115mm	352mm
	150	763mm	259mm	352mm
	180	763mm	259mm	352mm

Standard Mounting Heights

	Pedestrian	Small Streets	Residential Streets	Roads & Intersections
12M				
10M				
8M				
6M				
4M				
	Terreno M50	Terreno M70	Terreno M90	Terreno MX120 Terreno MX150 Terreno MX180

Trust us to save you more.

Many local authorities are in a situation where they have outdated public lighting installations that are in desperate need of refurbishment; however they only have limited budgets to do so. TERRENO has been designed with this in mind and offers the most cost-effective solution for all refurbishment projects. It hosts a magnitude of features to save local authorities more, these include advanced lighting control options, smart long lasting construction, best in class optical performance and many installation considerations to make contractors lives easier.



Luminaire Efficiency

The tables below describe the indicative flux and output power of the available versions depending of the number of Leds and current.

The multipliers help understand the behaviour of the luminaire under different conditions and get a more precise value for the performances.

The luminaire efficiency (expressed in Llm/W) must be calculated as the ratio between the output luminous flux of the luminaire and the power absorbed by the unit. The tables also show the nominal LED flux so as to show the luminaire efficiency and for the ease of comparison between solutions.

Those values are subject to modifications as our continuous work towards the most efficient solutions. For precise measured values please use the photometric data of the preferred version.

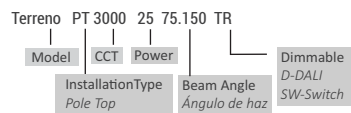
All measured values are subject to a tolerance of +/- 10% inherent to the technology and in accordance to IEC PAS 62722-2-1:2011

Luminaire Efficiency							
Wattages	Luminaire Useful Flux (lm)					Lifetime at 25°C	
	CCT	3000K	4000K	5000K	5700K	B50>	B10>
	30	3549	3900	4017	4044.3	75,000 hours L90	75000 hours L90
	50	5915	6500	6695	6740.5		
	70	8281	9100	9373	9436.7		
	90	10647	11700	12051	12132		
	120	14196	15600	16068	16177		
	150	17745	19500	20085	20221		
	180	21294	23400	24100	24265		

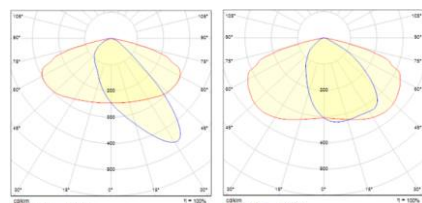
Multipliers				
Flux Function of colour temperatures		System Power functions of Ta		+/-10% tolerance on wattage/flux measurements.
3000K	0.91	35°C	0.99	
4000K	1.00	25°C	1.00	
5000K	1.023	15°C	1.01	
5700K	1.037			
6000K*	1.050			

* 5000K,6000 Colour temperatures are available on special requirements as non-standards versions.

Ordering Guide Sample *Ejemplo de la guía de pedido*

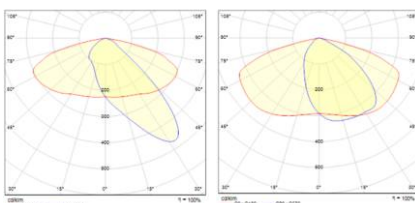


Polar curve Diagrams



Terreno M Narrow
60° x 130°

Terreno M Wide
75° x 150°



Terreno MX Narrow
60° x 130°

Terreno MX Wide
75° x 150°

Planning Aid

** For Planning Aid , visit <http://www.avadalight.es/planning-aid/>

5 Years Warranty

As a globally leading luminaire manufacturer, AVADA Lighting provides a five-year warranty for its complete product range within all European Countries.

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