



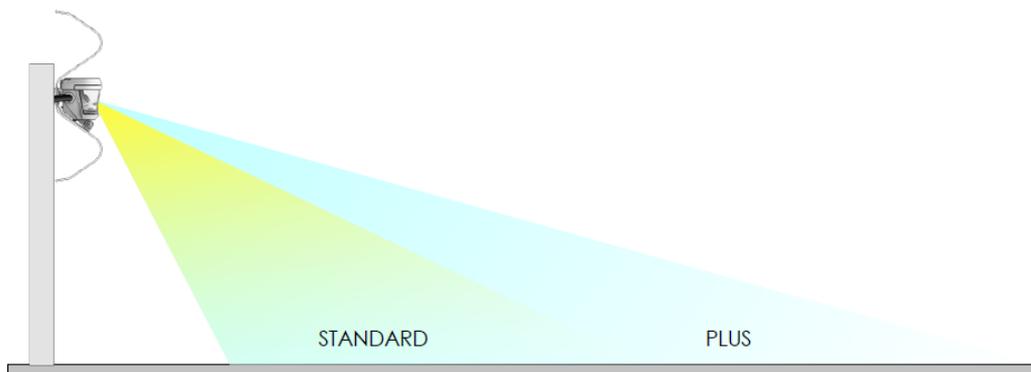
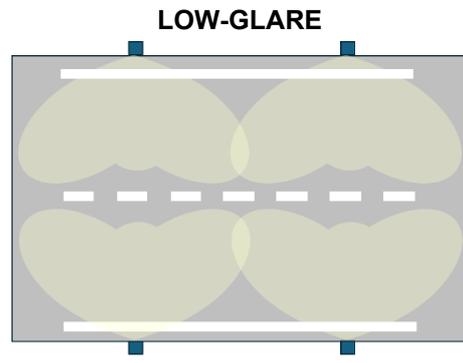
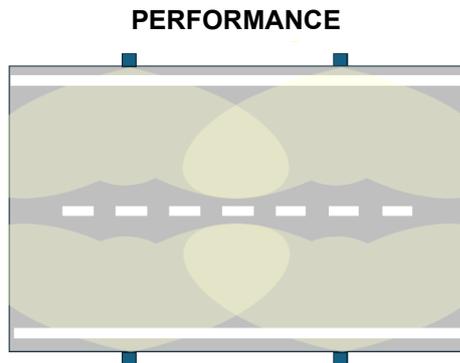
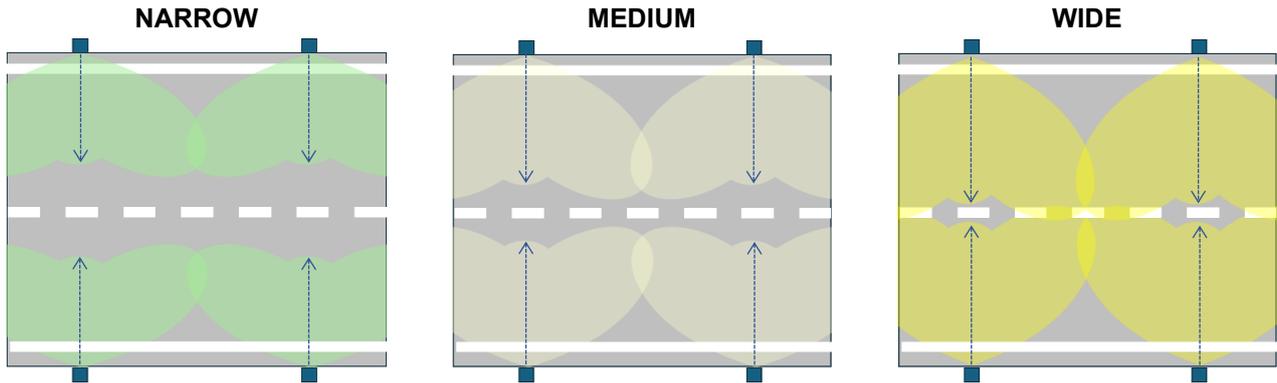
## MATREX DC

### MAIN CHARACTERISTICS

<b>Applications</b>	Grazing Street lighting
<b>Optic</b>	<p>Layer optic: multiple micro-optical architecture based on metallized reflector and multi-channel led source control.</p> <p>Symmetrical Optic for street lighting: wide, medium, narrow  Counterbeam Optic (right or left) for street lighting.  Pro-Beam Optic (right or left) for street lighting.  Optical variants: performance, low glare, plus</p> <p>Colour temperature: 4000K, 3000K (others in option)   CRI ≥ 70</p>
<b>Max Lumen output</b>	2750lm
<b>Insulation class</b>	F-DA: Classe III DALI: Classe II
<b>Protection degree</b>	IP66/IP67   IK10 total
<b>Dimensions</b>	See the drawing
<b>Weight</b>	max 1kg
<b>Mounting</b>	<p>Minimum installation height 0.5m  Fixing options: on road guardrails (without modifying the structure), safety barrier, recessed mounting.  See detail in the dedicated sections</p>
<b>Inclination</b>	<p>Screw fixing on guardrail: 0° ÷ -10°  Fixing the clamp on the guardrail: -10° ÷ +10°  Fixing on concrete support: -10° ÷ +15°</p>
<b>Pan</b>	<p>Screw fixing on guardrail: ±2.5°  Fixing the clamp on the guardrail: ±10°  Fixing on concrete support: ±10°</p>
<b>Power Supply</b>	External power supply 230Vac/48Vdc, to be installed in a separate box. No.1 power supply per group of appliances
<b>Operating temp.</b>	-40°C / +50°C
<b>Storage temp</b>	-40°C / +80°C
<b>Main reference standards</b>	EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN-61000-3-3
<b>ELECTRICAL CHARACTERISTICS</b>	
<b>Rated voltage</b>	48Vdc +10% / -15%
<b>Max consumption</b>	25W @48Vdc. Excluding plant losses
<b>DC Mains connection</b>	<p>Integrated cable:  F-DA: H07RN-F, 2 x 1.5mm<sup>2</sup>  DALI: H07RN-F, 4 x 1.5mm<sup>2</sup></p> <p>L=1.5m (Other lengths on request)</p> <p>Optional: IP66/68 M connector</p>
<b>Control system</b>	<p>F: Fixed power not dimmable  DA: Integrated automatic dimming (virtual midnight) with default profile.  DALI : Digital dimming interface (by external DALI driver)</p>
<b>Optical configuration</b>	Preconfigured in the factory.
<b>Profile configuration DA</b>	Preconfigured in the factory.
<b>Optical unit lifetime (Tq=25°C)</b>	<p>&gt;100.000hr L90B10  &gt;100.000hr L90, TM-21</p>

MATERIALS	
<b>Body</b>	Die-cast aluminium UNI EN1706. Powder coated with very low copper content.
<b>Fixing Bracket</b>	Stainless steel AISI 316L
<b>Optic</b>	Polycarbonate, metalized with high-efficiency aluminium
<b>Screen</b>	Polycarbonate, protected from UV rays. Scratch-resistant and weather-resistant.
<b>Cable gland</b>	Metallic - IP68
<b>Gasket</b>	Moulded Silicone
<b>Colour</b>	Graphite - Cod. 01

**AVAILABLE OPTICS**



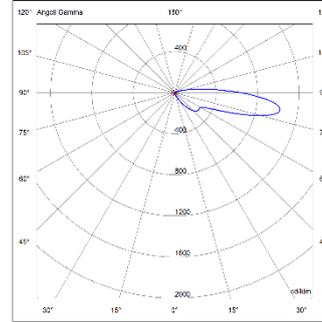
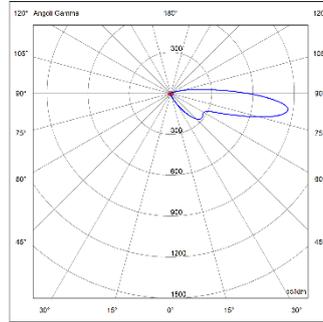
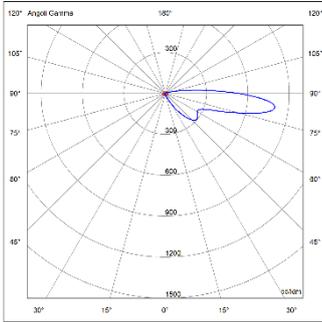
*Ideal For Micro-Adjustments In The Field*

PHOTOMETRICAL DISTRIBUTION

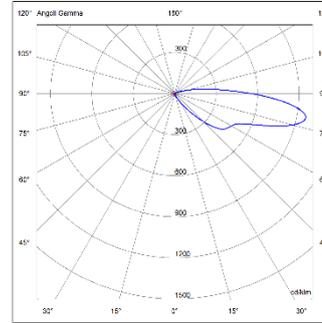
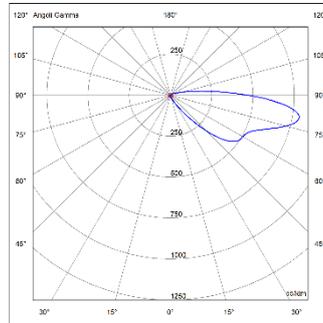
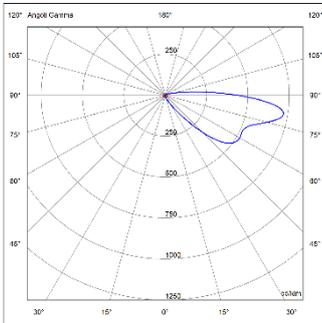
NARROW

MEDIUM

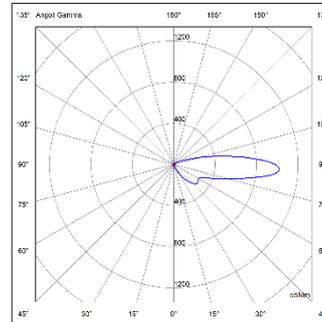
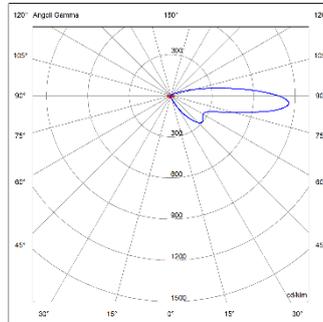
WIDE



STANDARD

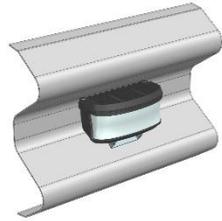
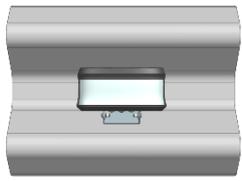


LOW GLARE



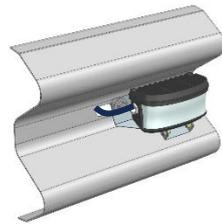
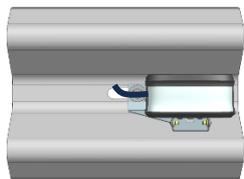
PLUS

**INSTALLATION ON GUARD-RAIL**



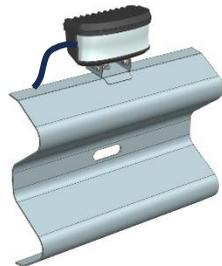
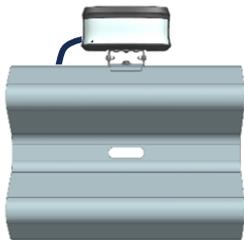
**Central mounting  
on guardrail**

**Cable entry  
rear**



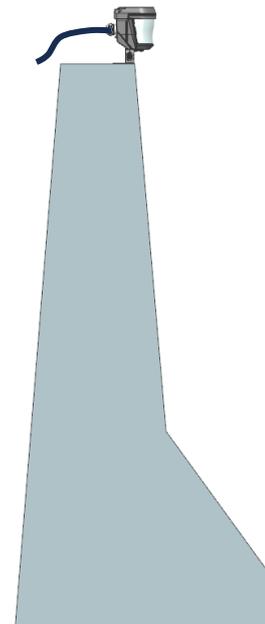
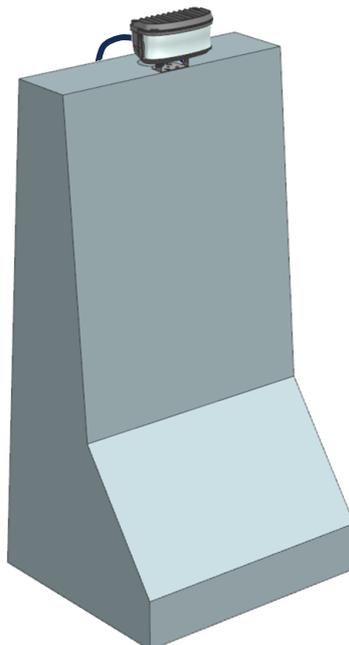
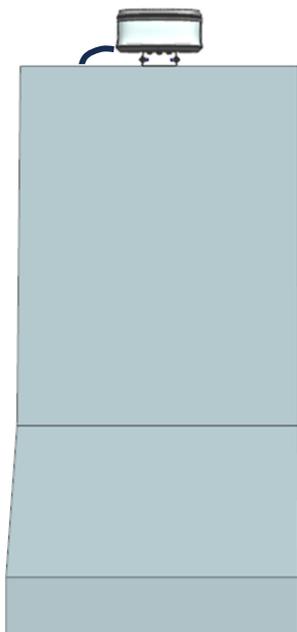
**Central mounting  
on guardrail**

**Cable entry  
lateral**

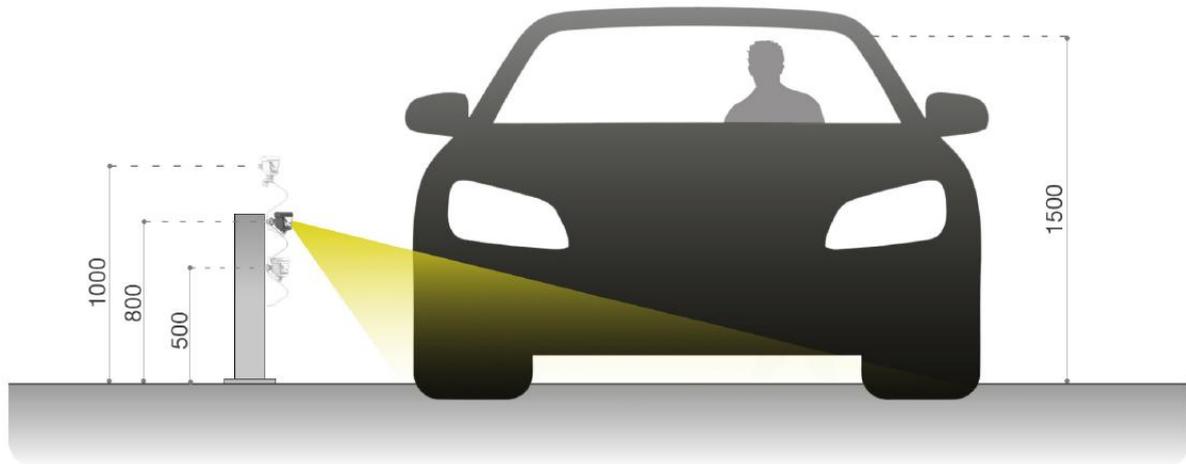


**Upper mounting  
on guardrail**

**SAFETY BARRIER INSTALLATION**



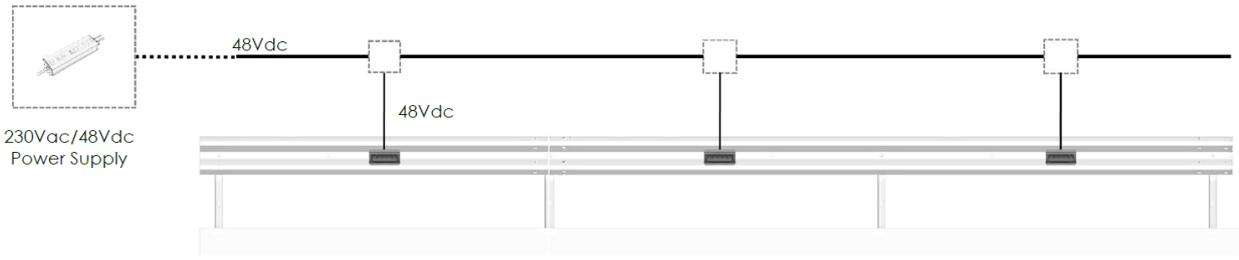
**TYPICAL HEIGHT OF MOUNTING**



**URBAN INSTALLATION**



**EXAMPLE OF CONNECTION**

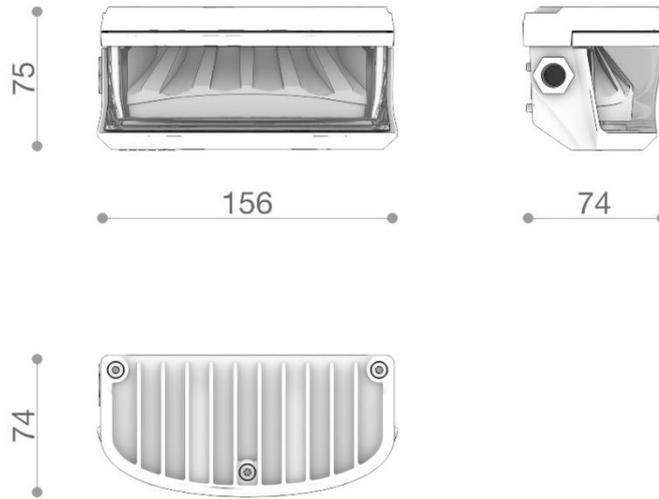


**NOTES:**

- The sizing of the 48Vdc power supply is defined by AEC.
- The 48Vdc power supply must be enclosed in a separate box.

**DIMENSIONAL DRAWING**

**LATERAL CABLE INPUT**



**REAR CABLE INPUT**

