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GAGGIONE

SHAPING YOUR LIGHT



50 x 50
Road lighting families
AVIKA2X2
AVIKA8X1

AVIKA2X25050*



GAGGIONE's standard road lighting range is expanding! New AVIKA2X25050* -LN1, -ME and -LW1 lenses are the **first optics** in the market passing requirements energy efficiently with both **5050 and 3535 LED** packages. Versatile solution for both: Illuminance and Luminance based roads. Extremely low threshold increment(TI) and high longitudinal uniformity (UI). **Designed and manufactured in FRANCE**

Optics are optimized for EN13201 M roads, providing excellent uniformity and minimized backlight. Well controlled backlight and Cut-off design allows the lenses to be used in countries where backlight is regulated by law. For even stricter requirements, GAGGIONE have developed **backlighting mask** which is ideal for next to building installations.

Dimensions: (W) 50 mm x (L) 50 mm x (H) <10mm

Mounting method: M3 Screw

Optical efficiency: >90%

LED types: 3535 & 5050 packages

Cut-off classification: Cut-off (full cut-off in actual luminaire)

Materials: PMMA & PC



M1AVIKA2X25050
backlighting mask



AVIKA2X25050LN1 – ideal for installations, where road width is narrower than the pole height

AVIKA2X25050ME – ideal for installations, where road width is the same or less as the pole height

AVIKA2X25050LW1 – ideal for installations, where road width is wider than the pole height



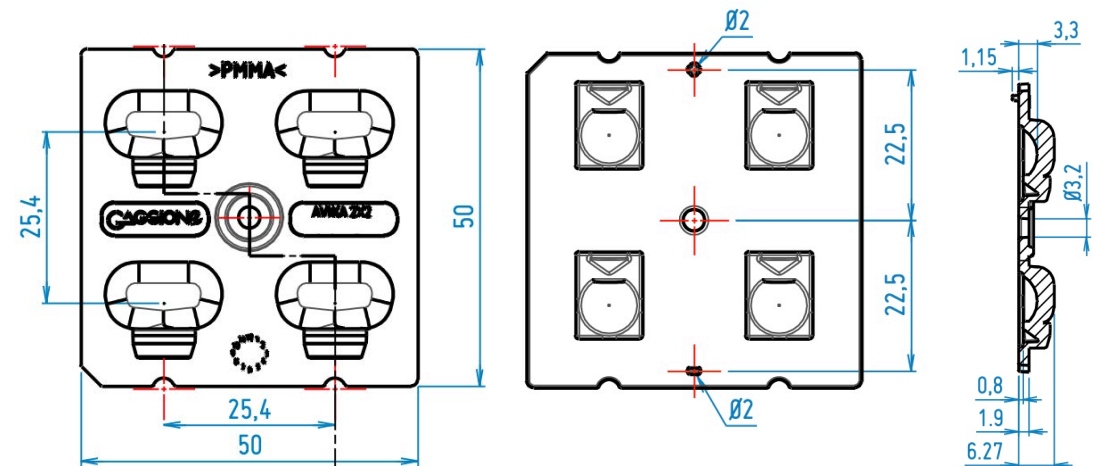
AVIKA2X25050LN1



AVIKA2X25050ME



AVIKA2X25050LW1



For full compatibility matrix, please refer to our website www.optic-gaggione.com

AVIKA2X25050LN1



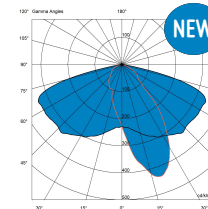
Application example: Regulation M3 road, motorway

- Luminaires on the side (2 lanes, two way)
- LED type: 5050 & 3535

- Average Road Brightness : **> 1.0 cd/m2 (min)**
- Road width : **7 m (3.5 m x 2)**
- Pole distance : **45 m**
- Pole height : **10 m**
- Boom length : **1 m**
- Boom angle : **0°**
- Maintenance factor: **0.8**
- Overhang : **0 m**
- Pole distance to roadway : **0 m**
- Overall uniformity (U0) : **> 0.40**
- Traffic lane uniformity (UI) : **> 0.60**
- Edge illumination ratio (EIR) : **> 0.30**
- Glare (TI) : **< 15**
- Road condition : **Tarmac (R3)**
- Luminous intensity class : **Cut-off**



M1AVIKA2X25050
backlighting mask



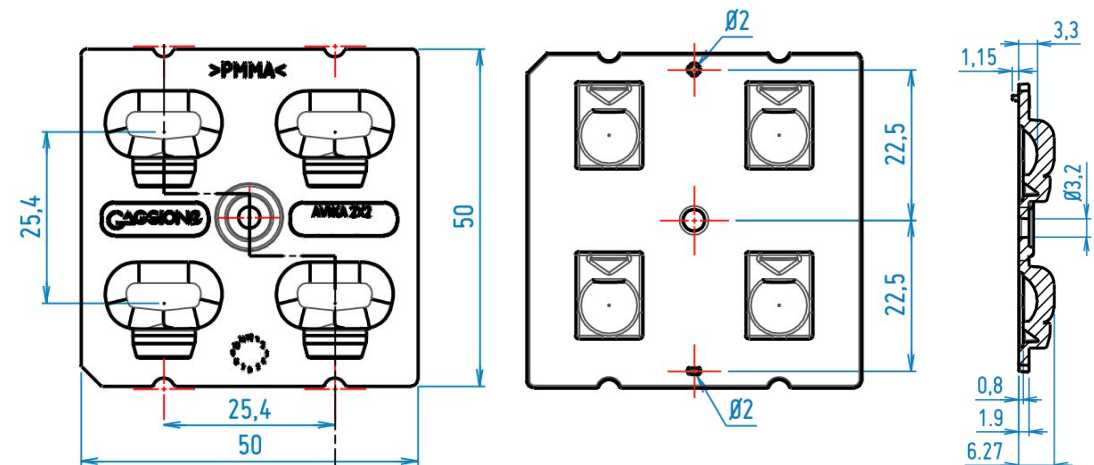
AVIKA2X25050LN1

* Typically **10-20%** less lumens or LEDs required vs competition

* Photometry and simulation made with protective glass

Roadway 1 (M3)		
✓ ≥	1.00	1.07 ✓
✓ ≥	0.40	0.47 ✓
✓ ≥	0.60	0.61 ✓
✓ ≤	15	10 ✓
✓ ≥	0.30	0.46 ✓

Roadway 1 (M3)		
✓ ≥	1.00	1.01 ✓
✓ ≥	0.40	0.47 ✓
✓ ≥	0.60	0.64 ✓
✓ ≤	15	11 ✓
✓ ≥	0.30	0.65 ✓



AVIKA2X25050ME



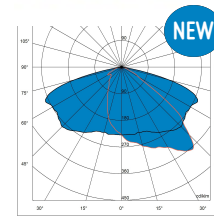
Application example: Regulation M3 road, motorway

- Luminaires on the side (3 lanes, one way)
- LED type: 5050 & 3535

- Average Road Brightness : **> 1.0 cd/m2 (min)**
- Road width : **10.5 m (3.5 m x 3)**
- Pole distance : 45 m
- Pole height : 10 m
- Boom length : 1 m
- Boom angle : 0°
- Maintenance factor: 0.8
- Overhang : -0.650 m
- Pole distance to roadway : 0 m
- Overall uniformity (U0) : > 0.40
- Traffic lane uniformity (UI) : > 0.60
- Edge illumination ratio (EIR) : > 0.30
- Glare (TI) : < 15
- Road condition : Tarmac (R3)
- Luminous intensity class : Cut-off



M1AVIKA2X25050
backlighting mask



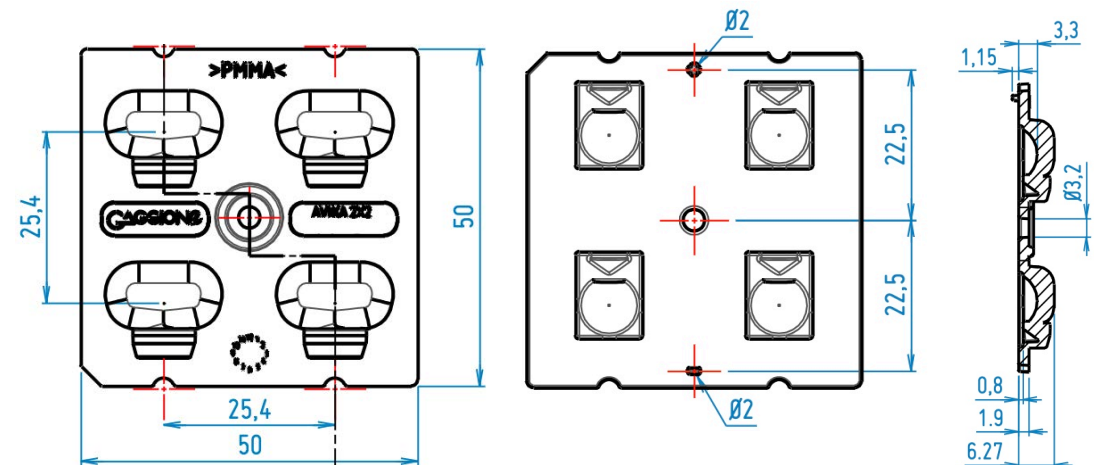
AVIKA2X25050ME

* Typically **10-20%** less lumens or LEDs required vs competition

* Photometry and simulation made with protective glass

Roadway 2 (M3)		
✓ ≥	1.00	1.00 ✓
✓ ≥	0.40	0.48 ✓
✓ ≥	0.60	0.65 ✓
✓ ≤	15	11 ✓
✓ ≥	0.30	0.55 ✓

Roadway 2 (M3)		
✓ ≥	1.00	1.00 ✓
✓ ≥	0.40	0.39 ✗
✓ ≥	0.60	0.65 ✓
✓ ≤	15	14 ✓
✓ ≥	0.30	0.59 ✓



For full compatibility matrix, please refer to our website www.optic-gaggione.com

AVIKA2X25050LW1



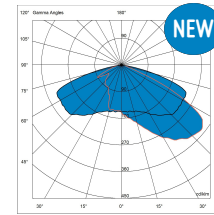
Application example: Regulation M3 road, motorway

- Luminaires on the side (4 lanes, one way)
- LED type: 5050 & 3535

- Average Road Brightness : **> 1.0 cd/m2 (min)**
- Road width : **15 m (3.75 m x 4)**
- Pole distance : 50 m
- Pole height : 12 m
- Boom length : 1 m
- Boom angle: 0°
- Maintenance factor: 0.8
- Overhang : -2 m
- Pole distance to roadway : 3 m
- Overall uniformity (U0) : > 0.40
- Traffic lane uniformity (UI) : > 0.60
- Edge illumination ratio (EIR) : > 0.30
- Glare (TI) : < 15
- Road condition : Tarmac (R3)
- Luminous intensity class : Cut-off



M1AVIKA2X25050
backlighting mask



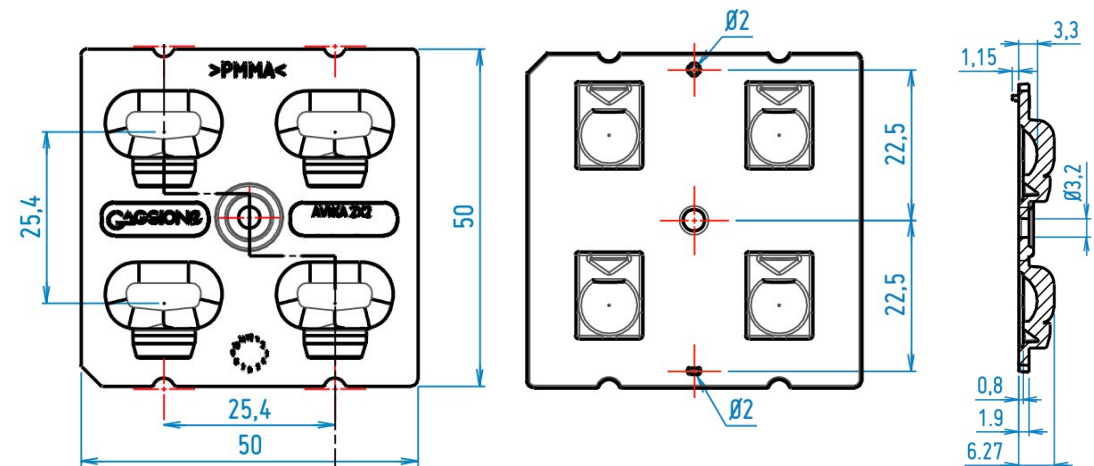
AVIKA2X25050LW1

* Typically **5-15%** less lumens or LEDs required vs competition

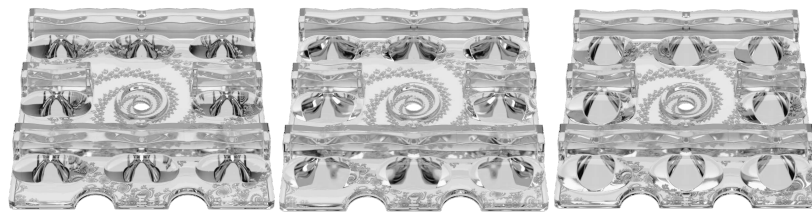
* Photometry and simulation made with protective glass

Roadway 2 (M3)		
✓ ≥	1.00	1.00 ✓
✓ ≥	0.40	0.48 ✓
✓ ≥	0.60	0.65 ✓
✓ ≤	15	11 ✓
✓ ≥	0.30	0.55 ✓

Roadway 2 (M3)		
✓ ≥	1.00	0.99 ✗
✓ ≥	0.40	0.44 ✓
✓ ≥	0.60	0.77 ✓
✓ ≤	15	17 ✗
✓ ≥	0.30	0.73 ✓



AVIKA8X1*



New AVIKA8X1* road lighting family is the best compromise between price and performance. AVIKA8X1* product family is optimized for up to 3535 LED packages and provides the same lumen output as AVIKA2X2 with 5050 (up to 2500 lumens). AVIKA8X1 family has the same PCB location pin positions and screw mounting hole as AVIKA2X2 and is also **designed and manufactured in FRANCE**

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Dimensions: (W) 49.5 mm x (L) 49.5 mm x (H) <10mm

Mounting method: M3 Screw

Optical efficiency: >90%

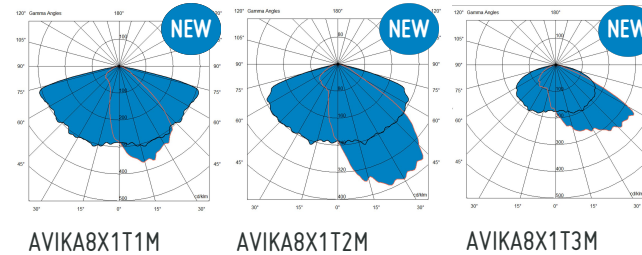
LED types: 3030 & 3535 packages

Cut-off classification: Cut-off (full cut-off in actual luminaire)

Materials: PMMA & PC



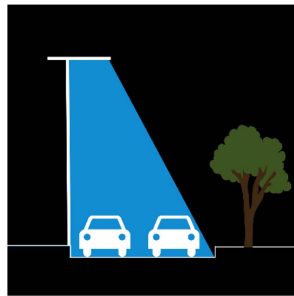
M1AVIKA8X1
backlighting mask



- AVIKA8X1T1M** - ideal for installations, where road width is narrower than the pole height
- AVIKA8X1T2M** - ideal for installations, where road width is the same or less as the pole height
- AVIKA8X1T3M** - ideal for installations, where road width is wider than the pole height



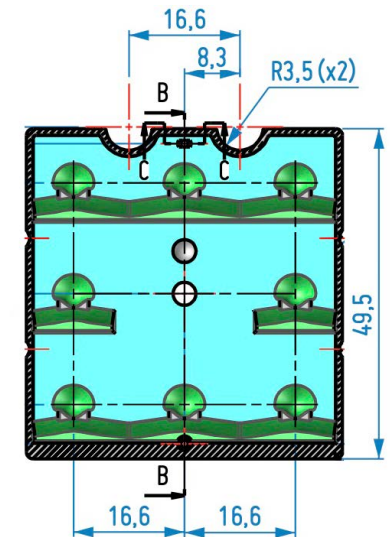
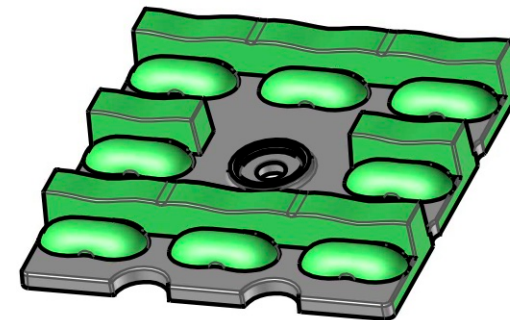
AVIKA8X1T1M



AVIKA8X1T2M



AVIKA8X1T3M



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