

STANDARD RANGE

Street lighting solutions

AVIKA2X25050 and AVIKA8X1

March, 2024

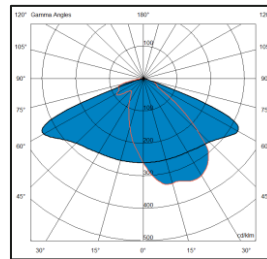
NEW



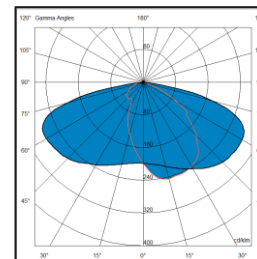
ø50 mm
(for up to 5050)

AVIKA2X25050

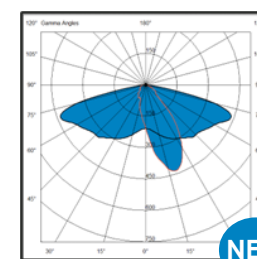
- Industry's standard AVIKA-2X2 lenses optimized for Illuminance and Luminance based roads with low threshold increment requirements.
- Optics are optimized for EN13201 M roads, providing excellent uniformity with minimized backlight
- First optics in the market passing requirements with both 5050 and 3535 LED packages
- Screw mounting from the middle
- >90% Optical efficiency
- Black mask available to minimize backlight in regulated areas for even better backlight control
- AVIKA is available for following IESNA classes
 - TYPE I MEDIUM (LN1)
 - TYPE II SHORT
 - TYPE II MEDIUM (ME)
 - TYPE III SHORT
 - TYPE III MEDIUM (LW1)



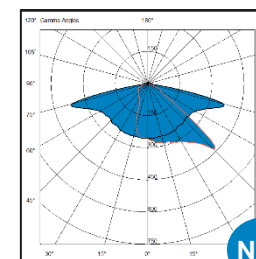
T2S



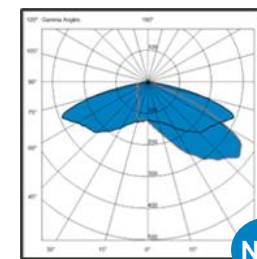
T3S



LN1



ME



LW1

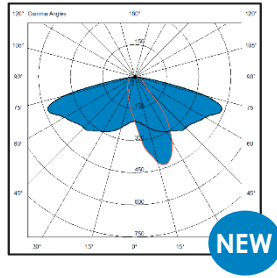


** Photometries with protective glass

NEW



ø50 mm
(for up to 5050)



AVIKA2X25050LN1

Regulation M3 road, motorway. IESNA TYPE I M

- 1. **Luminaires on the side:** (2 lanes, two way),
 - LED Type: 5050 & 3535
 - **Average Road Brightness** : >1.0cd/m²(min)
 - **Width per lane** : **7m** (3.5m x 2)
 - Pole distance : **46 m**
 - Pole Height : **10 m**
 - Boom length : **1 meter**
 - Boom Angle : 0
 - Maintenance factor : 0.80
 - Overhang : 0 m
 - Pole distance to roadway: 0
 - Overall uniformity : U0: 0.45
 - Traffic lane uniformity : U1: 0.65
 - Edge illumination ratio : EIR: 0.3
 - Glare : TI: 11
 - Lumens : **14 000lm**
 - Road condition : **Tarmac (R3)**
- Luminous intensity class: CUTOFF

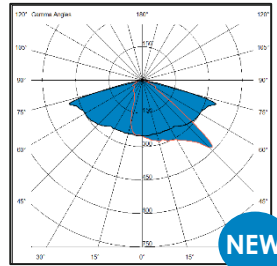


Confidential

NEW



ø50 mm
(for up to 5050)



AVIKA2X25050ME

Regulation M3 road, motorway. IESNA TYPE II M

- 1. **Luminaires on the side:** (3 lanes, one way),
 - LED Type: 5050 & 3535
 - **Average Road Brightness** : >1.0cd/m²(min)
 - Width per lane : 10.5m (3.5m x 3)
 - Pole distance : **45 m**
 - Pole Height : **10 m**
 - Boom length : **1 meter**
 - Boom Angle : 0
 - Maintenance factor : 0.80
 - Overhang : -0.650 m
 - Pole distance to roadway: 0
 - Overall uniformity : U0: 0.55
 - Traffic lane uniformity : U1: 0.70
 - Edge illumination ratio : EIR: 0.7
 - Glare : TI 13
 - Lumens : 19 000
 - Road condition : **Tarmac (R3)**
- Luminous intensity class: CUTOFF

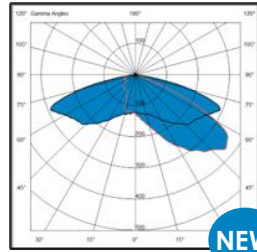


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NEW



ø50 mm
(for up to 5050)



AVIKA2X25050LW1

Regulation M3, roads with multiple lanes. Type-3 Medium.

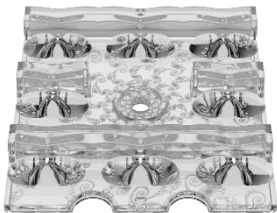
Luminaires on the side: 1 Luminaire (4 lanes, two way),

- LED Type: 5050 & 3535
 - **Average Road Brightness** : >1.0cd/m²(min)
 - Width per lane : 15m (3.75m x 4)
 - Pole distance : **56 m**
 - Pole Height : **12 m**
 - Boom length : **1 m**
 - Boom Angle : 0-5
 - Maintenance factor : 0.80
 - Overhang : -2 m
 - Pole distance to roadway: 3
 - Overall uniformity : U0: 0.4min < **target 0.50**
 - Traffic lane uniformity : UI: 0.7min < **target 0.70**
 - Edge illumination ratio : EIR: 0.3min
 - Glare : TI=<11min
 - Lumens : **31 500lm**
 - Road condition : **Tarmac (R3)**
- Target Luminous intensity class: CUTOFF or FULL CUTOFF



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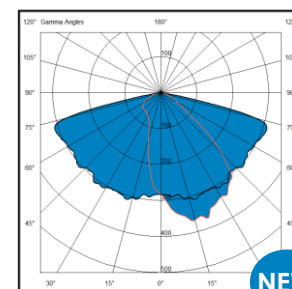
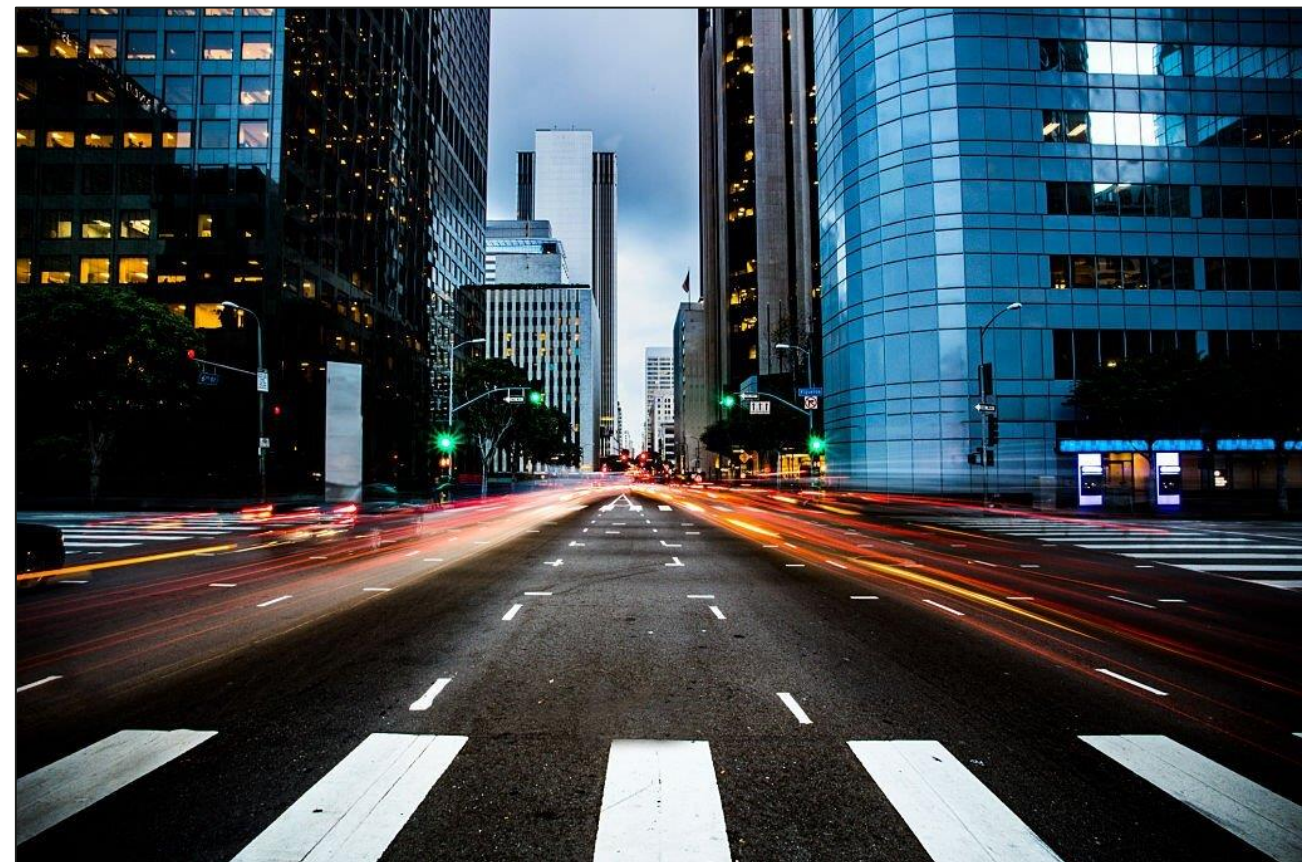
NEW



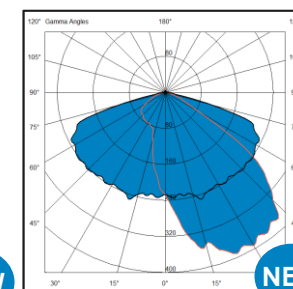
ø50 mm
(for up to 3535)

AVIKA8X1

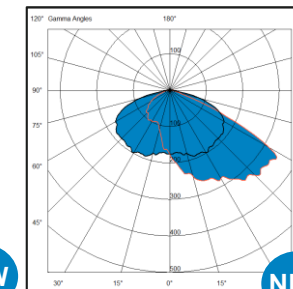
- Industry's standard AVIKA-8X1 lenses optimized for Illuminance and Luminance based roads
- Optimized for High Power 3535 packages
- Excellent uniformity with minimized backlight and best lm/\$
- Screw mounting from the middle
- >90% Optical efficiency
- Black mask available to block backlight
- AVIKA is available for following IESNA classes
- TYPE I MEDIUM
- TYPE II MEDIUM
- TYPE III MEDIUM



T1M



T2M



T3M



Confidential

** Photometries with protective glass

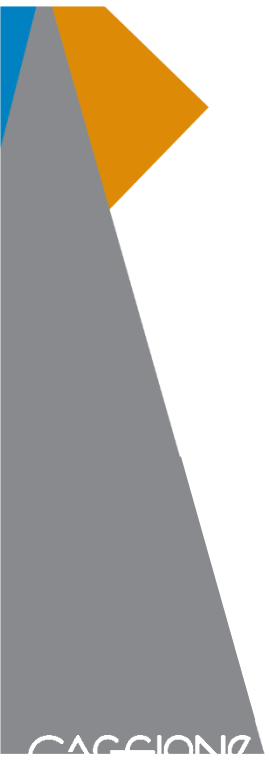
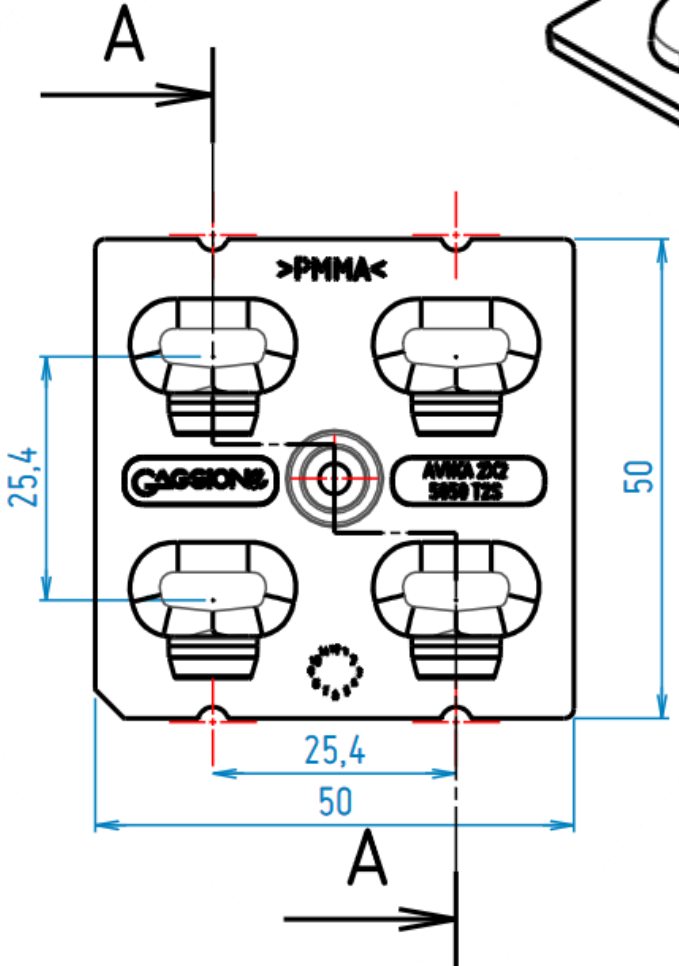
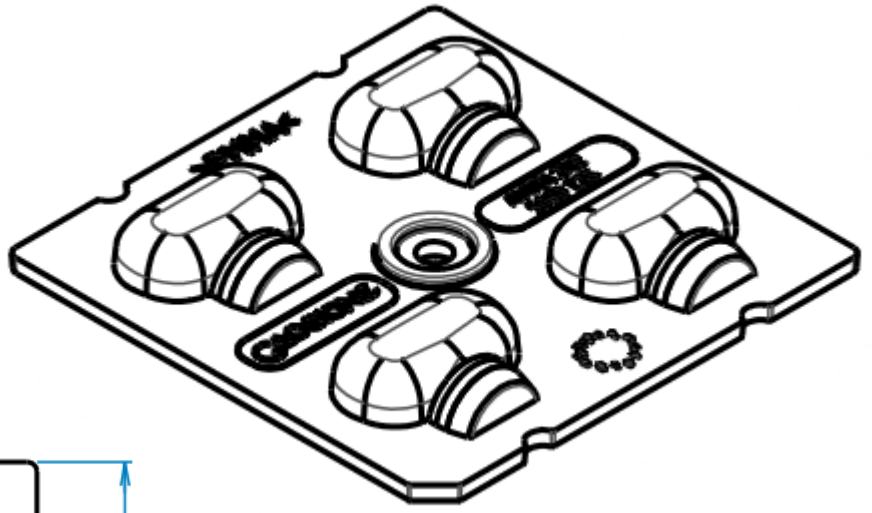
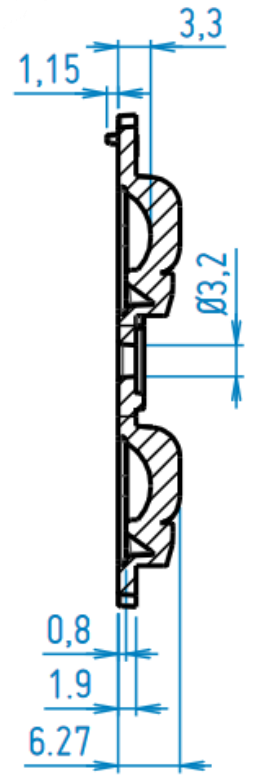
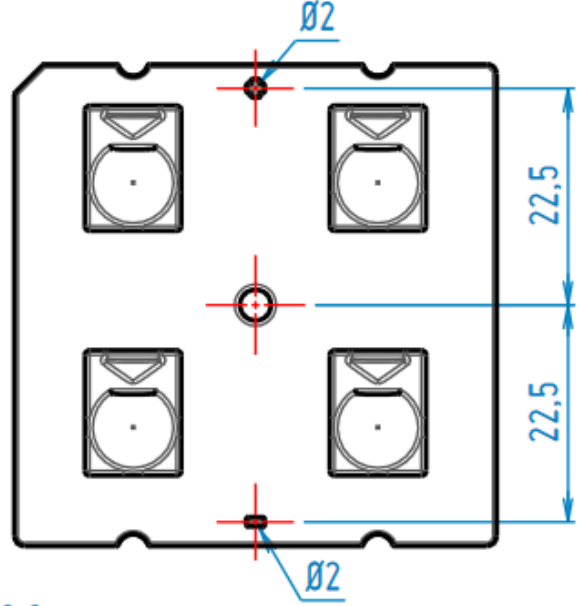
AVIKA: Mask Compatibilities

Optical component : AVIKA* + Mask : AVIKA*M

Optical component	Mask
AVIKA 2x2 5050 T3S	AVIKA 2x2 5050 T3S M
AVIKA 2x2 5050 T2S	AVIKA 2x2 5050 T2S M
AVIKA 2x2 5050 T3M	AVIKA 2x2 5050 T3M M
AVIKA 2x2 5050 LN1	M1 AVIKA 2X2 5050
AVIKA 2x2 5050 ME	M1 AVIKA 2X2 5050
AVIKA 2x2 5050 LW1	M1 AVIKA 2X2 5050
AVIKA 8X1 T1M	M1 AVIKA 8X1
AVIKA 8X1 T2M	M1 AVIKA 8X1
AVIKA 8X1 T3M	M1 AVIKA 8X1

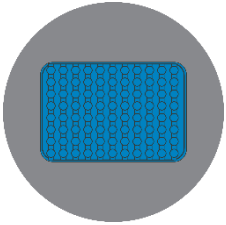
AVIKA: 2D drawing

All dimensions are in millimeters.
standard NF T 58-000 cat. 4, reduced class.



AVIKA: Packaging

AVIKA2X25050

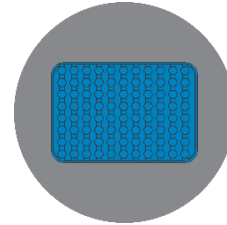


4 layers of 165 pieces
individually packed



660 parts
Box: 340x320x260mm
Weight: 6 kg

AVIKA8X1



4 layers of 153 pieces
individually packed



612 parts
Box: 340x320x260mm
Weight: 6 kg

Code form standard range

LENS

OPTICAL

- 01: 16 mm
- 02: 16 mm
- 12: 16 mm
- 22: 16 mm RGBW
- 05: 32 mm
- 15: 32 mm
- 25: 32 mm RGBW
- 07: 35 mm
- 45: 45 mm UFO or VEGA
- 49: 45 mm RGBW
- 59: 45 mm RGBW gen 2
- 56: 67mm in PMMA
- 66: 67 mm in silicone
- 76: 67mm in silicone
- 67: 67 mm UFO

PRODUCT

- LLC: Collimator
- LLH: Holder
- LLL: Linear collimator
- LLR: Reflector
- LLS: Set
- UFO: Ultra Flat Optic
- VEGA : 45mm COB oriented
- AVIKA : Street Lighting

BEAM ANGLE

- U/R/RF/UF: Ultra Narrow
- N/NF: Narrow
- M: Medium
- W: Wide
- X: Extra large
- S: Super large
- L: Large
- V: Very large
- E: Elliptical
- Z: Zoom

MATERIAL

- 0 or nothing : PMMA
- 1: PC
- 2: PC anti-UV
- 7: Silicone

LLS01W01ABC001

ABC: Holder type according to LED package

COLORS & DECORS

- 0: Translucent
- 1: White
- 2: Black

ADHESIVE OPTION

- 1: Yes
- Nothing: No

VERSION

TYPE

- 1: 16mm
- 2: 32mm
- 3: 3x16mm
- 4: 4x16mm
- 9: 45mm

HOLDER

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