

# STANDARD RANGE

Street lighting solutions

AVIKA2X25050 and AVIKA8X1

December, 2024

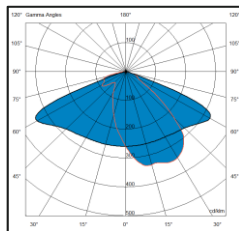
NEW



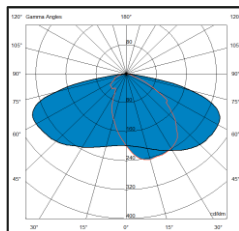
ø50 mm  
(for up to 5050)

# AVIKA2X25050

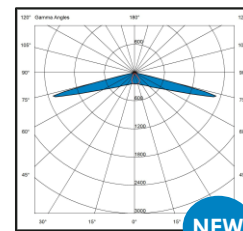
- Industry's standard AVIKA-2X2 lenses optimized for Illuminance and Luminance based roads with low threshold increment requirements.
- Optics are optimized for EN13201 M roads, providing excellent uniformity with minimized backlight
- First optics in the market passing requirements with both 5050 and 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
  - TYPE II SHORT
  - TYPE II MEDIUM
  - TYPE III SHORT
  - TYPE III MEDIUM
  - TYPE **T5M (Type 5, rounded square)**



T2S

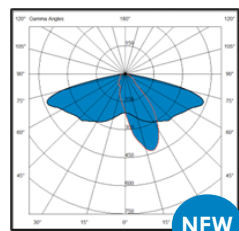


T3S



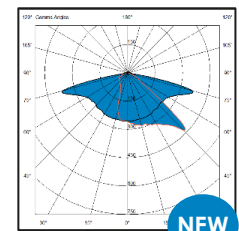
T1M

NEW



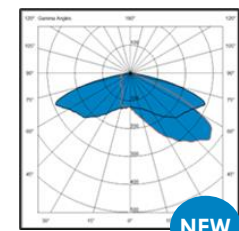
LN1

NEW



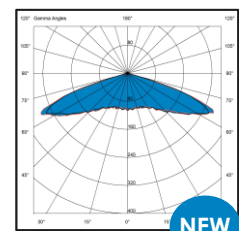
ME

NEW



LW1

NEW



T5M

NEW

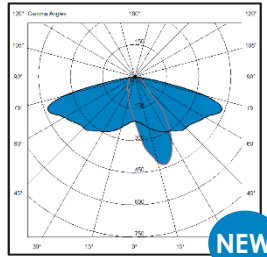


\*\* Photometries with protective glass

NEW



ø50 mm  
(for up to 5050)



# AVIKA2X25050LN1

Regulation M3 road, motorway. IESNA TYPE II M

- 1. **Luminaires on the side:** (2 lanes, two way),
- LED Type: 5050 & 3535
  - **Average Road Brightness** : >1.0cd/m<sup>2</sup>(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

Available  
in recycled  
PMMA



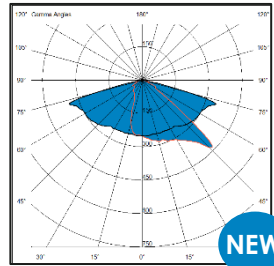
Confidential



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/m<sup>2</sup>(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 : UI: 0.70
- Edge illumination ratio : EIR: 0.7
- Glare : TI 13
- Lumens : 19 000
- Road condition : **Tarmac (R3)**
- Luminous intensity class: CUTOFF

Available  
in recycled  
PMMA



Confidential

NEW



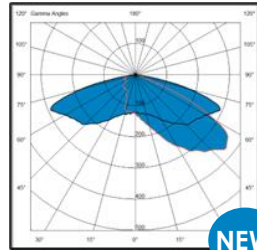
ø50 mm  
(for up to 5050)

# AVIKA2X25050LW1

Regulation M3, roads with multiple lanes. Type III Medium.

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

- LED Type: 5050 & 3535
  - **Average Road Brightness** : >1.0cd/m<sup>2</sup>(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: 0.5min
  - Traffic lane uniformity : U1: 0.7min
  - Edge illumination ratio : EIR: 0.3min
  - Glare : TI= 11
  - Lumens : **31 500lm**
  - Road condition : **Tarmac (R3)**
- Target Luminous intensity class: CUTOFF

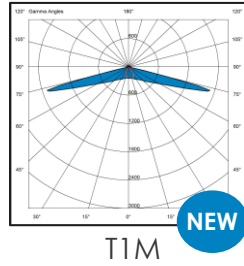
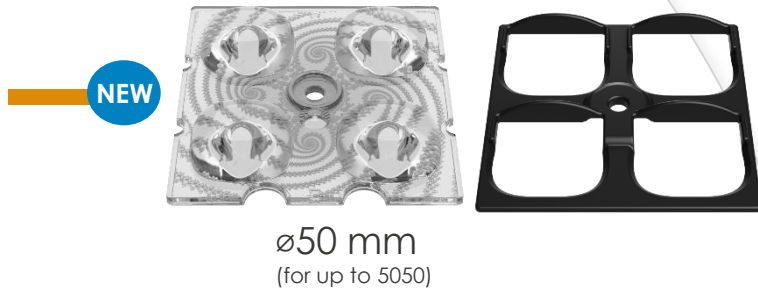


Available  
in recycled  
PMMA



Confidential





# AVIKA2X25050T1M

Regulation P4, Pedestrian road. Type I Medium.

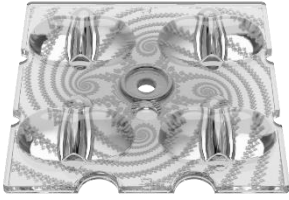
**Luminaires on the side:** 1 Luminaire  
(2 lanes, bicycle/walking road)

- LED Type: 5050 & 3535
  - **Average Road Brightness** : >1.0cd/m<sup>2</sup>(min)
  - Width per lane : 7m (3.5m x 2)
  - Pole distance : **42 m**
  - Pole Height : **5 m**
  - Boom length : **0.5 - 1 m**
  - Boom Angle : 0-5
  - Maintenance factor : 0.80
  - Overhang : 0 m
  - Pole distance to roadway: 1
  - Lumens : **3000 lm**
  - **Em (lx): 6.50 lx**  
**Emin (lx) 1.55 lx**
  - Road condition : **Tarmac (R3)**
- Luminous intensity class: CUTOFF



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NEW

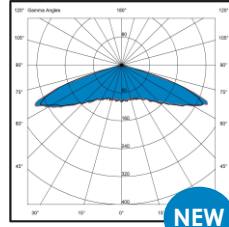


ø50 mm  
(for up to 5050)

## AVIKA2X25050T5M

Parking lot, Area and Wide area lighting  
IESNA Type 5 Medium (square)

- LED Type: 5050 & 3535
  - **Illuminance requirement: (Eav): 20 lx, Emin 11 lx, U0 0.6**
  - Pole distance : **25 m**
  - Pole Height : **5 m**
  - Boom length : **0 m**
  - Boom Angle : **0**
  - Maintenance factor : **0.80**
  - Overhang : **0 m**
  - Lumens : **16 000lm**
  - Road condition : **Tarmac (R3)**
- Target Luminous intensity class: Semi-cutoff



T5M

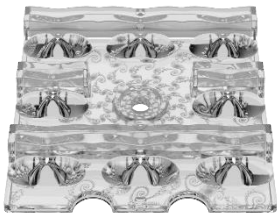
NEW



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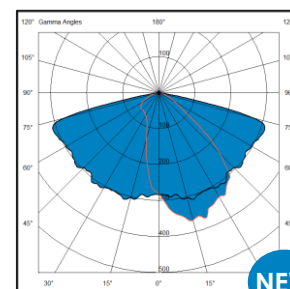
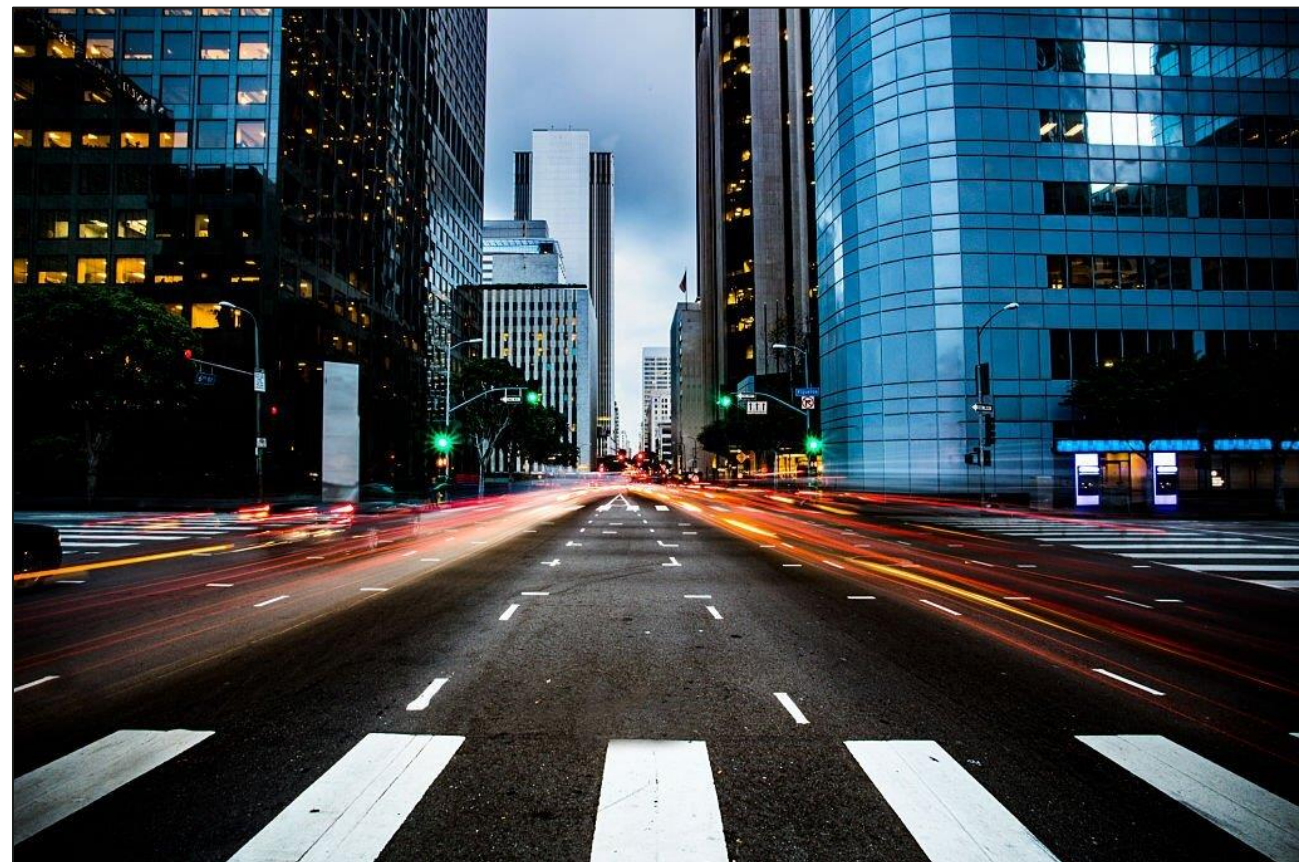
NEW



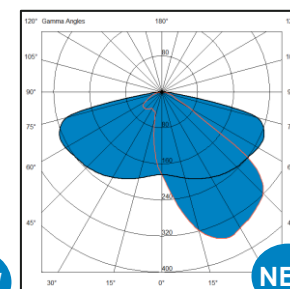
ø50 mm  
(for up to 3535)

# 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



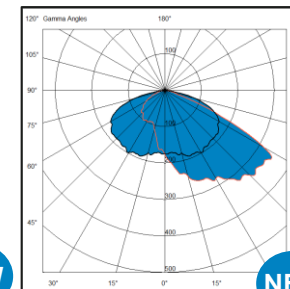
T1M



ME



Available in recycled PMMA



T3M



Available in recycled PMMA

## Confidential

\*\* Photometries with protective glass



# AVIKA: Mask Compatibilities

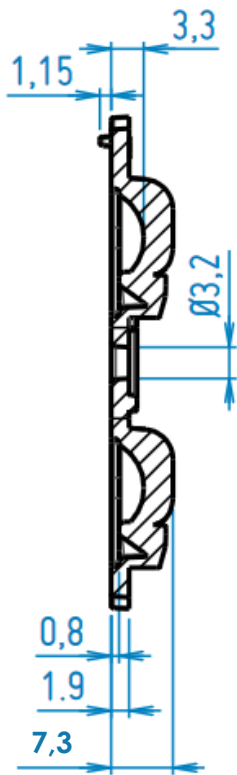
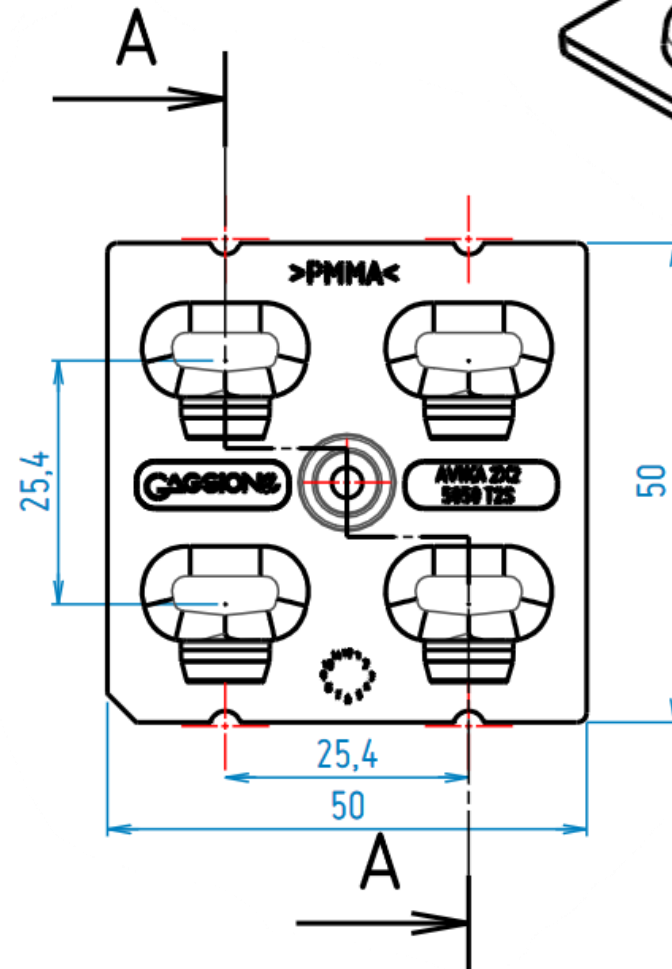
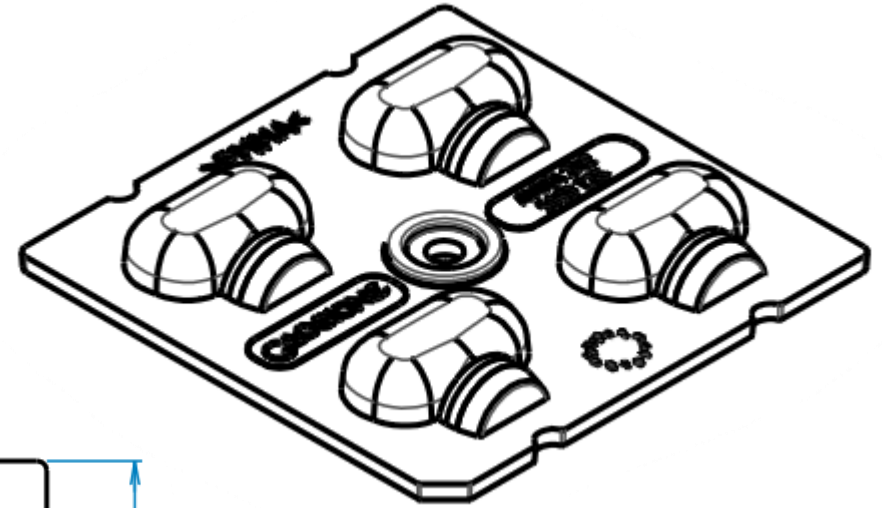
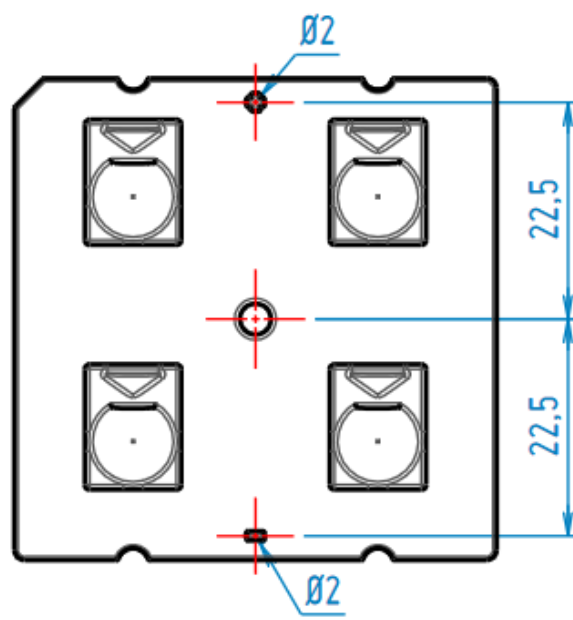
Optical component : AVIKA\* + Mask : AVIKA\*M

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 T1M	M1 AVIKA 2X2 5050
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 2x2 5050 T5M	N/A
AVIKA 8X1 T1M	M1 AVIKA 8X1
AVIKA 8X1 ME	M1 AVIKA 8X1
AVIKA 8X1 T3M	M1 AVIKA 8X1

# AVIKA2X2: 2D drawing

All dimensions are in millimeters.

standard NF T 58-000 cat. 4, reduced class.

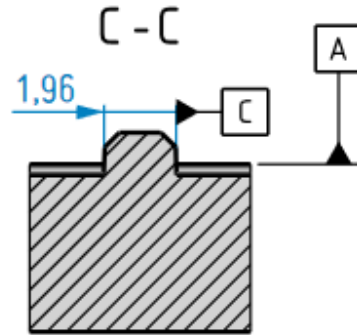
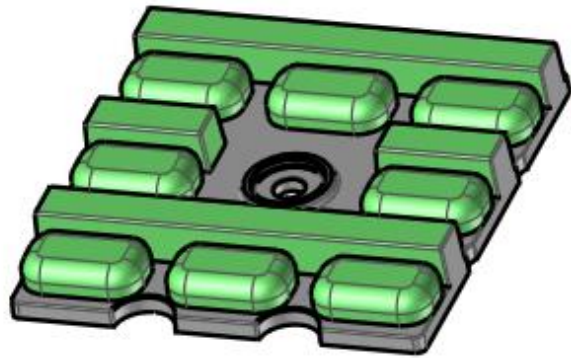




# AVIKA8X1: 2D drawing

All dimensions are in millimeters.

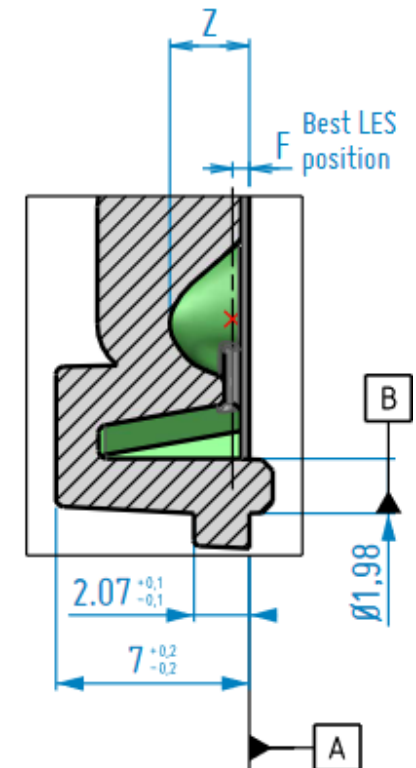
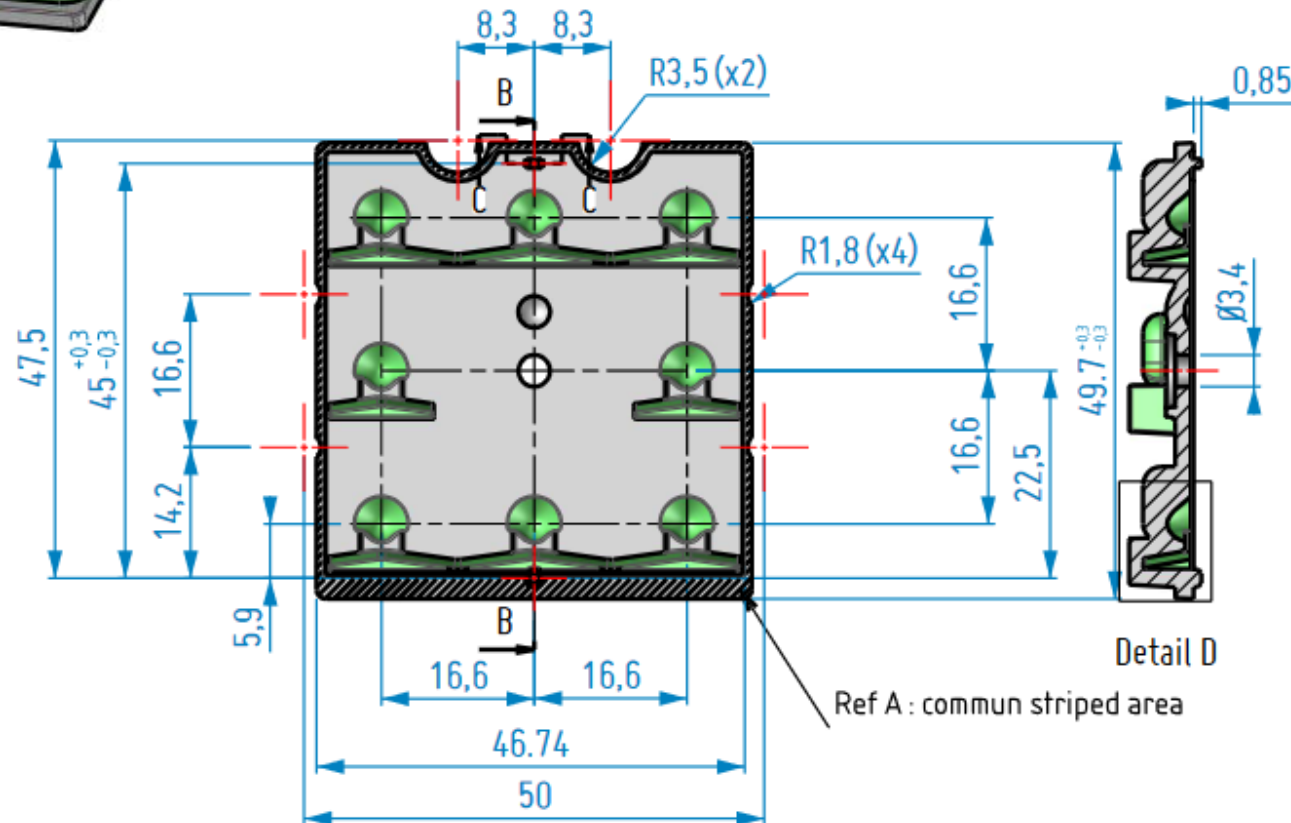
standard NF T 58-000 cat. 4, reduced class.



B - B

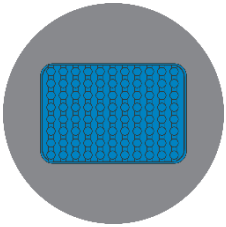
Detail D

Lens height : 7,1



# AVIKA: Packaging

## AVIKA2X25050

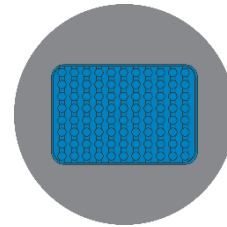


4 layers of 165 pieces  
individually packed



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

# Contact us

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