

STANDARD RANGE

Street lighting & Outdoor lighting
solutions

AVIKA2X25050 and AVIKA8X1

February, 2026

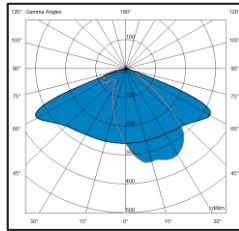
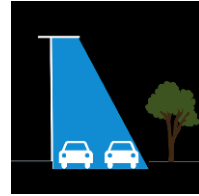
NEW



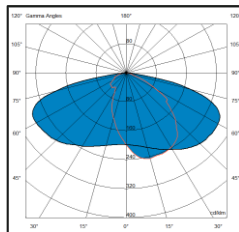
ø50 mm
(for up to 5050)

AVIKA2X25050

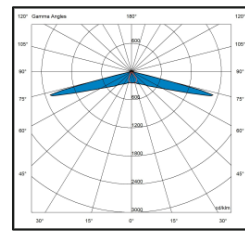
- Industry's standard AVIKA-2X2 lenses optimized for Illuminance and Luminance based roads with low threshold increment requirements.
- Optics are optimized for EN13201 M roads, providing excellent uniformity with minimized backlight.
- For Sport and Wide Area Lighting, dedicated optics such as Z10, Z10D, T4M, FT45, and FT60, designed to deliver controlled beam distribution, high efficiency, and uniform illumination over large areas.
- 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 IV MEDIUM
 - TYPE **T5M (Type 5, rounded square)**



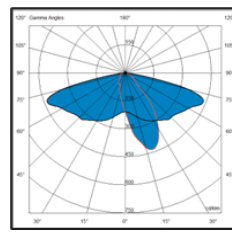
T2S



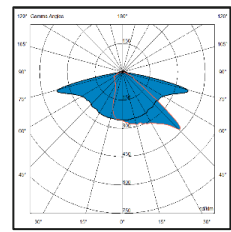
T3S



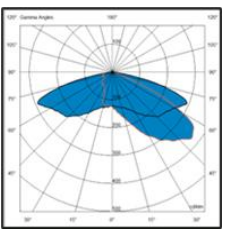
T1M



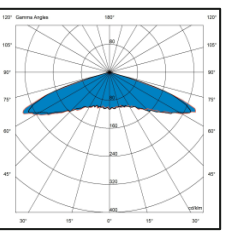
LN1



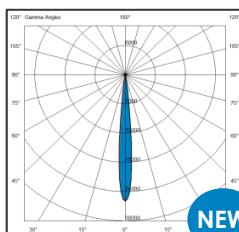
ME



LW1

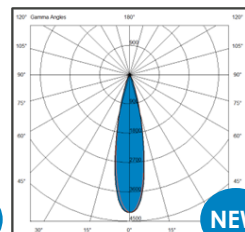


T5M



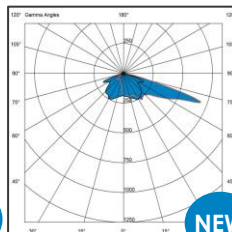
Z10

NEW



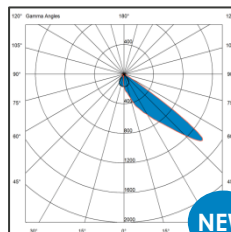
Z10D

NEW



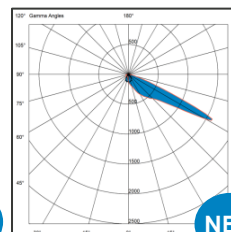
T4M

NEW



FT45

NEW



FT60

NEW

Photometries with protective glass

NEW



AVIKA2X2
Amber-yellow



AVIKA2X2
Amber-orange



AVIKA2X25050 – Amber versions

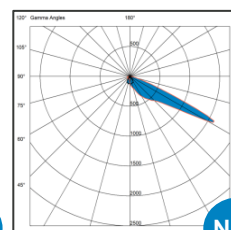
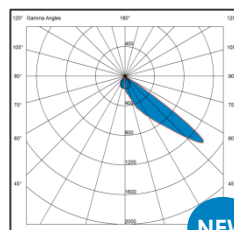
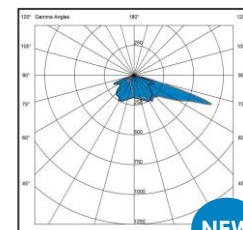
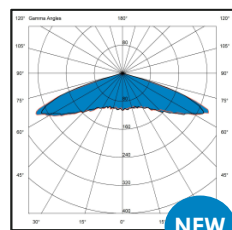
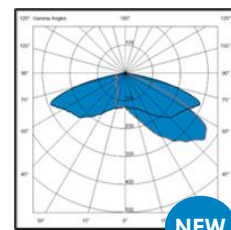
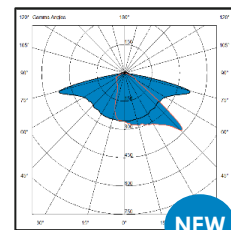
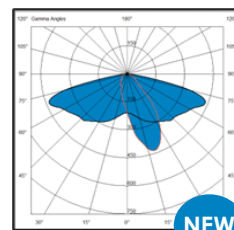
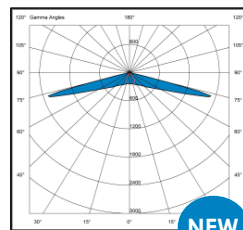
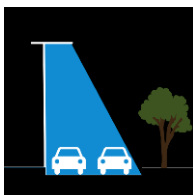
- We have developed 2 different colour grades for our standard AVIKA2x2 road lighting lenses:
- Amber-orange** lenses:
Ideal for architectural lighting in old cities and historical sites and areas requiring wildlife friendly lighting.

- Converts 3000K LED to <1900K
- Beautiful traditional amber-orange colour
- Transmits 85% of light between 560nm - 700nm (less than 0.5% of blue light)
- CRI 62, LOR 72%

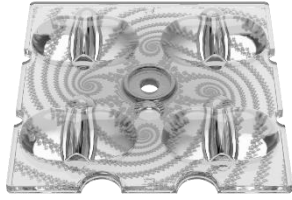
- Amber-yellow** lenses:

Are developed to recreate the warm glow of traditional sodium lamps while being as energy-efficient as possible and environmentally friendly. Amber lenses are transmitting wavelength that is sea turtle friendly.

- Converts 4000K LED to 3000K
- Beautiful traditional amber colour
- Less than 1.25% of light emitted @ 500nm
- CRI 68, LOR 85%



Photometries
with protective
glass

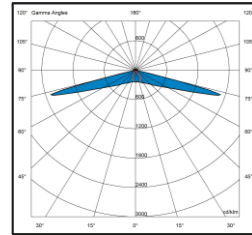


ø50 mm
(for up to 5050)

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/m²(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



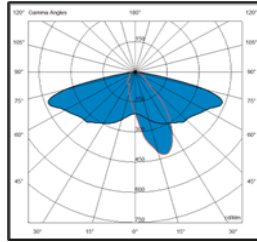
Available
in recycled
PMMA



Confidential



ø50 mm
(for up to 5050)



Available
in recycled
PMMA

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/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 : UI: 0.65
- Edge illumination ratio : EIR: 0.3
- Glare : TI: 11
- Lumens : **14 000lm**
- Road condition : **Tarmac (R3)**

- Luminous intensity class: CUTOFF



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ø50 mm
(for up to 5050)

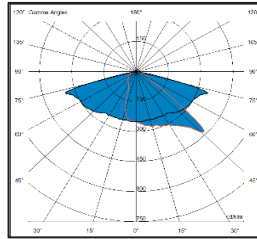
AVIKA2X25050ME

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)**

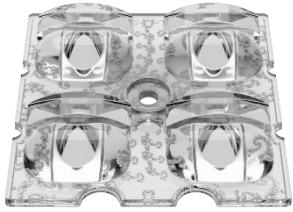
- Luminous intensity class: CUTOFF



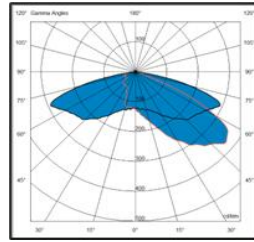
Available
in recycled
PMMA



Confidential



ø50 mm
(for up to 5050)



Available
in recycled
PMMA

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/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: 0.5min
 - 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

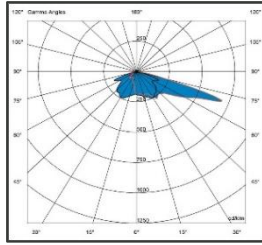


Confidential

NEW



ø50 mm
(for up to 5050)



Available
in recycled
PMMA

AVIKA2X25050T4M

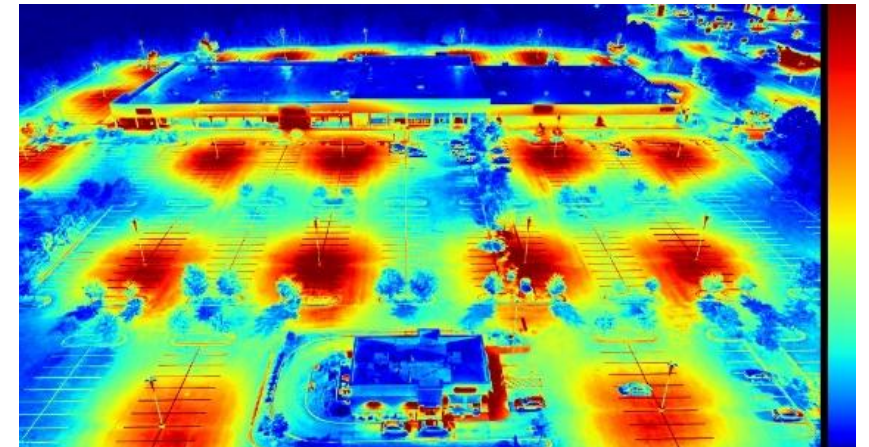
Asymmetric, rectangular forward-throw beam with peaks at 65°

** Extremely low glare, Luminous Intensity Class: 6 **

• Application example: Sports lighting, Parking lot, Bollards, Area and Wide area lighting, multi-lane street lighting.

- LED Type: 5050 & 3535
- Lumens per luminaire : 10 000
- Average illuminance : 20 lx
- Pole height : 8 m
- Pole distance : 16 m
- Distance between opposing luminaires : 30 m
- Boom length : 0 m
- Boom angle : 0°
- Uniformity : 0.70
- Maintenance factor : 0.80
- Overhang : N/A
- Road condition : Tarmac (R3)

Available in High Temperature PMMA



Confidential

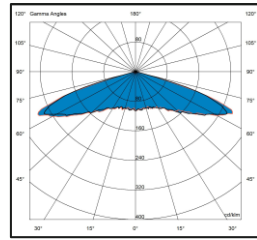


ø50 mm
(for up to 5050)

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



Available
in recycled
PMMA



Confidential

NEW



Available
in recycled
PMMA

ø50 mm
(for up to 5050)

AVIKA2X25050Z10

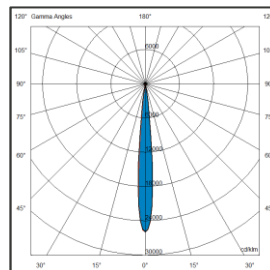
- Developed for Spot, Sports and Floodlight applications
(Dimensions: 50mm x 50mm, H: 13.9mm)
- Optimized for: 5050 & 3030/3535 HP packages

- LED Type: Philips Fortimo DAG5 (3535)
FWHM 10.3 °
FWTM 17 °
Peak intensity 26.8 cd/lm

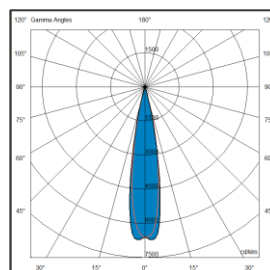
LED Type: Nichia NFMW488ART-V1 (4848)
FWHM: 17 °
FWTM: 34 °
Peak intensity: 8 cd/lm

LED Type: Lumileds 5050
FWHM: 19.6 °
FWTM: 31.5 °
Peak Intensity: 8.0 cd /lm

- Efficiency: +94%
- HT PMMA and Amber colours available upon request.



Typical photometry with 3535 package



Typical photometry with 5050 package (multichip)



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NEW



ø50 mm
(for up to 5050)



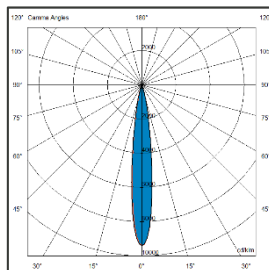
AVIKA2X25050Z10D

- Developed for Spot, Sports and Floodlight applications
(Dimensions: 50mm x 50mm, H: 13.9mm)
- **Special, slightly diffused version with improved colour uniformity with multi-chip LED packages**

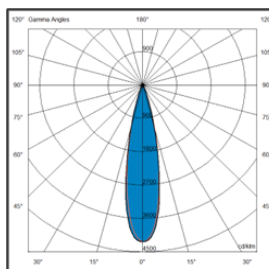
LED Type: Philips Fortimo DAG5 (3535)
FWHM 14.2 °
FWTM 29.5 °
Peak intensity 9.4 cd/lm
Efficiency: 81%

LED Type: Lumileds 5050
FWHM: 22.3 °
FWTM: 41.3 °
Peak Intensity: 4.8 cd /lm
Efficiency 87%

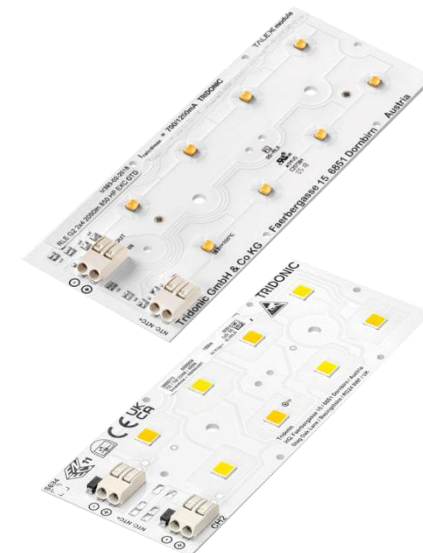
- HT PMMA and Amber colours available upon request.



Typical photometry
with 3535 package

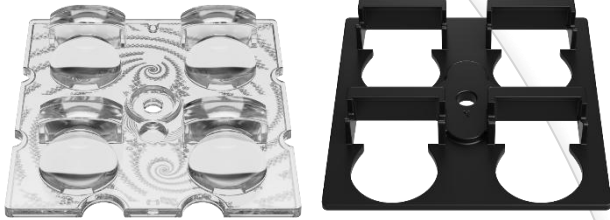


Typical photometry
with 5050 package (multichip)



Confidential

NEW



ø50 mm
(for up to 5050)

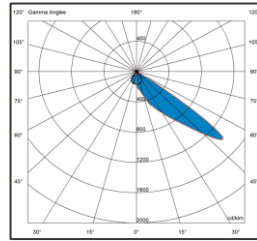
AVIKA2X25050FT45

Asymmetric, narrow forward-throw beam with peaks at 45°

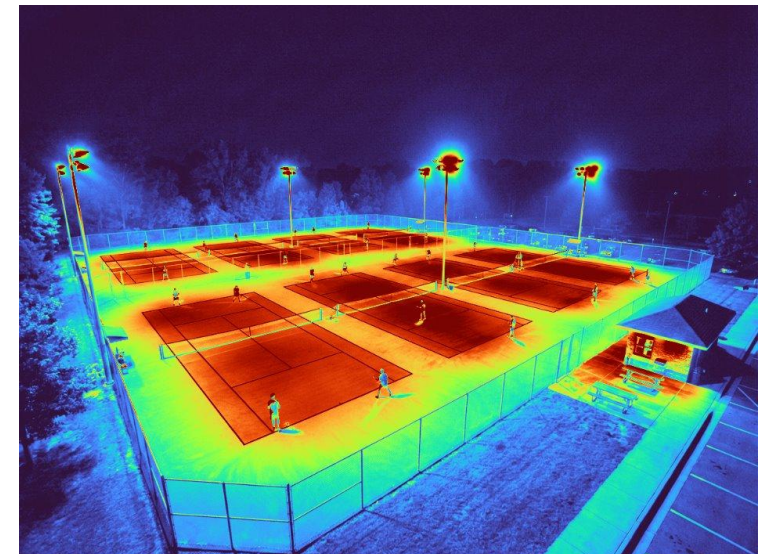
** Extremely low glare, Luminous Intensity Class: 6 **

- Application example: Smaller arenas, training grounds, tennis courts.
- LED type: 5050 & 3535
- Lumens per luminaire : 114 000
- Average illuminance : > 750 lx
- Uniformity : > 0.70
- Pole height : 18 m
- Pole distance : 28 m
- Boom length : 0 m
- Boom angle : 0°
- Maintenance factor : 0.80
- Overhang : 0 m
- GR MAX : 48

Available in High Temperature PMMA

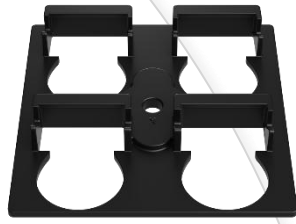
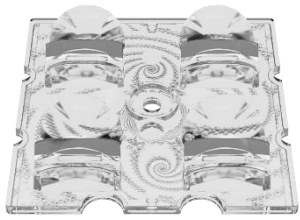


Available
in recycled
PMMA

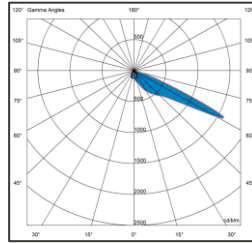


Confidential

NEW



ø50 mm
(for up to 5050)



AVIKA2X25050FT60

Aymmetric, narrow forward-throw beam with peaks at 60°

** Extremely low glare, Luminous Intensity Class: 6 **

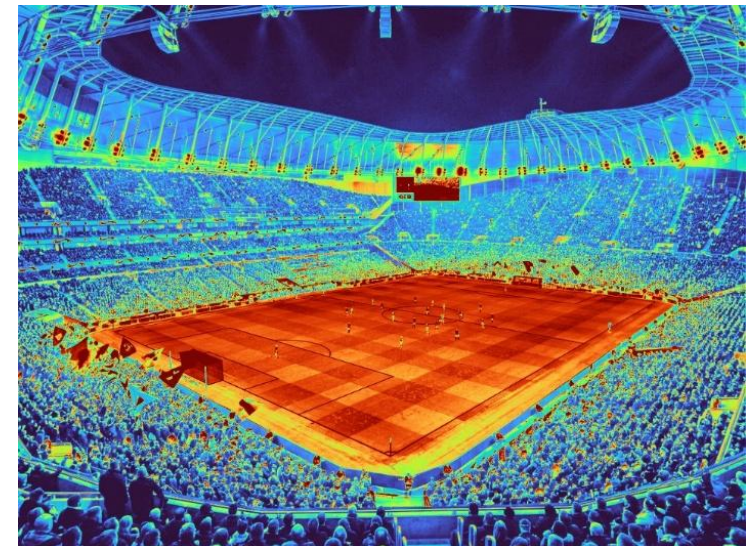
• Application example: Sports lighting, Arena, Wide-area, Apron lighting

• LED type: 5050 & 3535

- Lumens per luminaire : 96 000
- Average illuminance : > 500 lx
- Uniformity : > 0.70
- Pole height : 18 m
- Pole distance : 50 m
- Boom length : 0 m
- Boom angle : 0°
- Maintenance factor : 0.80
- Overhang : 0 m
- GR MAX : 48

Available
in recycled
PMMA

Available in High Temperature PMMA



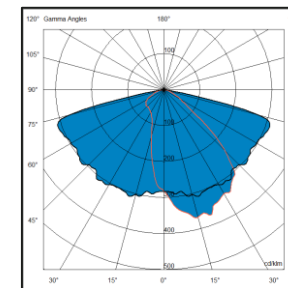
Confidential



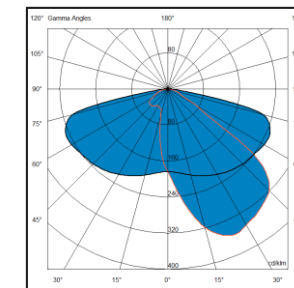
ø50 mm
(for up to 3535)

AVIKA8X1

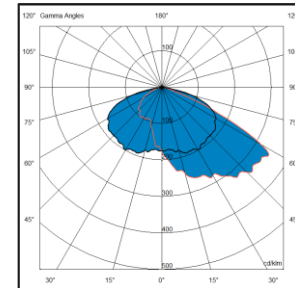
- Industry's standard AVIKA-8X1 lenses optimized for Illuminance and Luminance based roads
- Optimized for High Power 3535 packages
- Excellent uniformity with minimized backlight and best lm/\$
- Screw mounting from the middle
- >90% Optical efficiency
- Black mask available to block backlight
- AVIKA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



T1M



ME



T3M

Available in recycled PMMA

Available in recycled PMMA

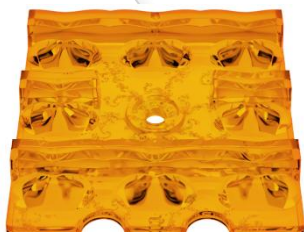
Confidential

Photometries with protective glass

NEW



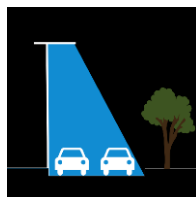
AVIKA8X1
Amber-yellow



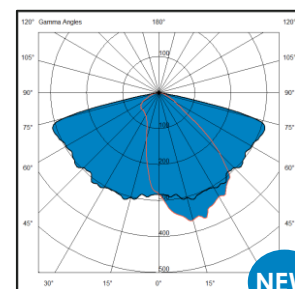
AVIKA8X1
Amber-orange



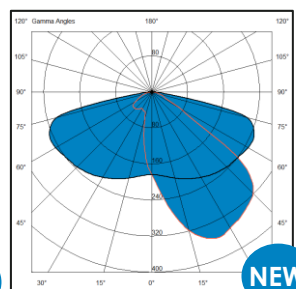
AVIKA8X1 Amber versions



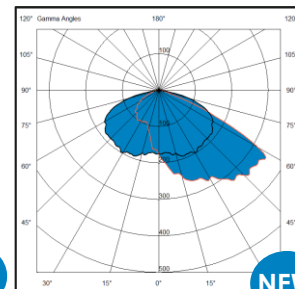
- We have developed 2 different colour grades for our standard AVIKA8X1 road lighting lenses:
- Amber-orange** lenses:
Ideal for architectural lighting in old cities and historical sites and areas requiring wildlife friendly lighting.
 - Converts 3000K LED to <1900K
 - Beautiful traditional amber-orange colour
 - Transmits 85% of light between 560nm - 700nm (less than 0.5% of blue light)
 - CRI 62, LOR 72%
- Amber-yellow** lenses:
Are developed to recreate the warm glow of traditional sodium lamps while being as energy-efficient as possible and environmentally friendly. Amber lenses are transmitting wavelength that is sea turtle friendly.
 - Converts 4000K LED to 3000K
 - Beautiful traditional amber colour
 - Less than 1.25% of light emitted @ 500nm
 - CRI 68, LOR 85%



T1M



ME



T3M

Confidential

Photometries with protective glass

AVIKA: Mask Compatibilities

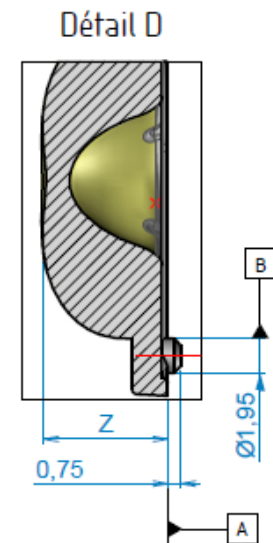
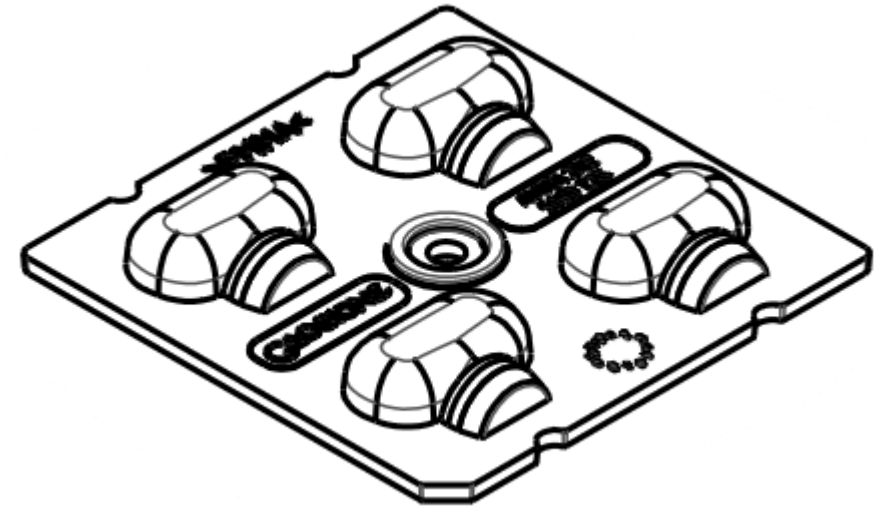
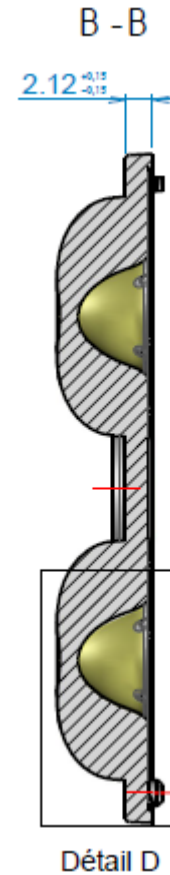
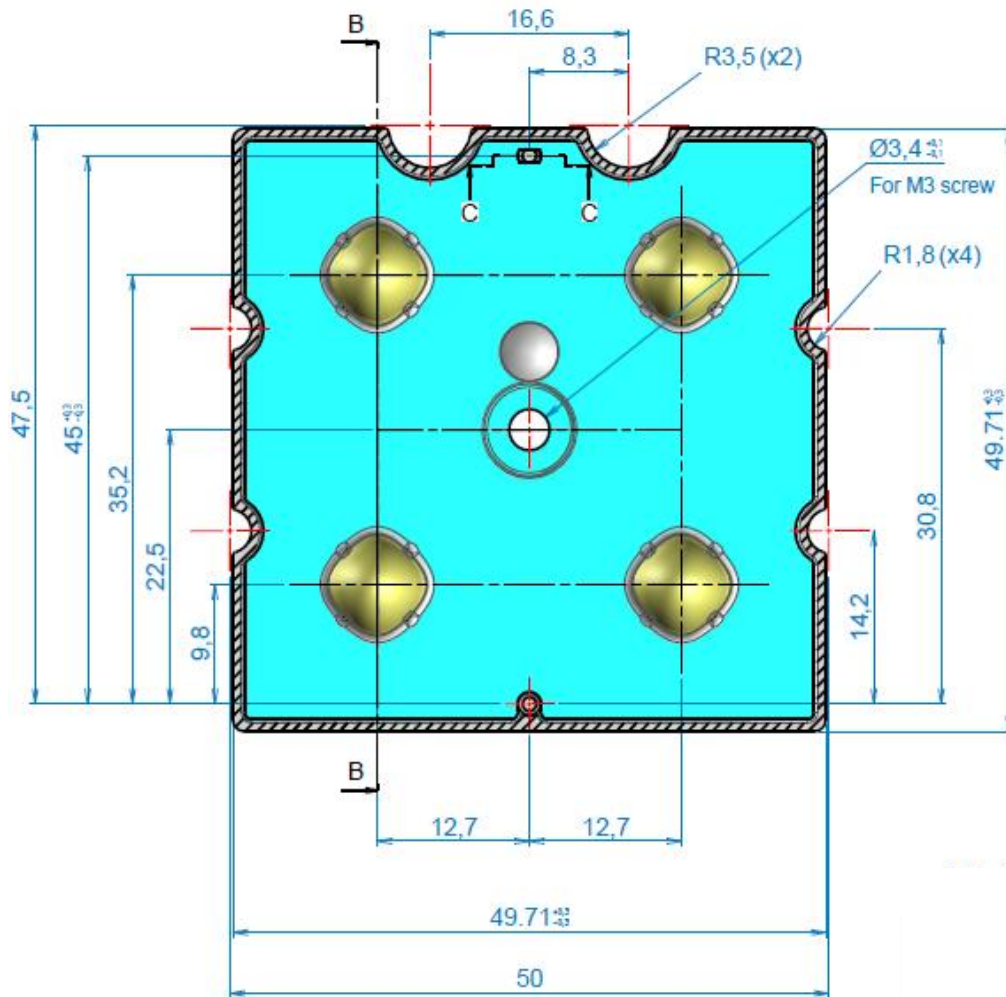
Optical component :
AVIKA* + Mask : AVIKA*M

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 T1M	N/A
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 2x2 5050 Z10	N/A
AVIKA 2x2 5050 T4M	N/A
AVIKA 2x2 5050 FT45	M1 AVIKA 2X2 FT45FT60
AVIKA 2x2 5050 FT60	M1 AVIKA 2X2 FT45FT60
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.

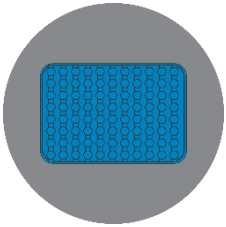
standard NF T 58-000 cat. 4, reduced class.



Confidential

AVIKA: Packaging

AVIKA2X25050

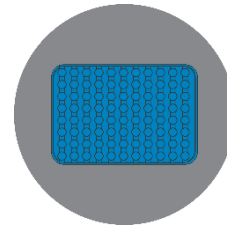


4 layers of 165 pieces
individually packed



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
8 : Yellow
9 : Amber-orange

1: Yes
Nothing: No

VERSION

TYPE

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

HOLDER

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