



# ArenaVision MVF404 – exceptional optical efficiency

## ArenaVision MVF404

The ArenaVision MVF404 floodlight – designed for outdoor sports stadiums – dramatically increases the theatrical and emotional impact of sports for TV audiences and spectators, while allowing the players to perform under optimal visual conditions. Thanks to the innovative Philips MHN-SE 2000 W high-output compact single-ended metal-halide lamp and high-tech single-piece precision optics, ArenaVision MVF404 offers much higher optical efficiency than ever before. In addition, this 2 kW floodlight boasts easy lamp fitting and replacement, full IP65 compliance, safety knife connector system and a breakthrough electronic hot-restrike solution – while continuing to deliver all the traditional benefits of Philips ArenaVision systems. The (optional) flicker-free version of ArenaVision MVF404 is designed to ensure that the flicker effect is fully eliminated in order to guarantee perfect images filmed with super-slow-motion cameras at sports events. The flicker-free version of ArenaVision MVF404 comes equipped with a special electronic igniter, which works in combination with Philips' electronic-ballast GearUnits (ECM330), to be ordered separately.

### Benefits

- Innovative floodlight with Philips' compact single-ended lamp; dedicated optics ensure maximum optical efficiency and enable accurate light distribution with a minimum of spill light
- Quartz metal halide lamp meets the most demanding lighting and TV broadcast requirements with excellent colour rendering
- The flicker-free version completely eliminates flicker effect, thereby guaranteeing perfect images filmed with super-slow-motion cameras

# ArenaVision MVF404

## Features

- High-output compact single-ended metal-halide lamp with excellent colour rendering
- Dedicated precision optics
- IP65
- Safety knife connector system
- Electronic hot-restrike
- Flicker-free light version for super-slow-motion cameras

## Application

- Outdoor sport stadiums

## Specifications

|               |                                                                                                                                                                                                      |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type          | MVF404                                                                                                                                                                                               |
| Light source  | HID:<br>- 1 x MASTER MHN-SE HO / GX22-HR / 2000 W                                                                                                                                                    |
| Lamp included | Yes (light color 956)                                                                                                                                                                                |
| Optic         | Beam category B1 (B1)<br>Beam category B2 (B2)<br>Beam category B3 (B3)<br>Beam category B4 (B4)<br>Beam category B5 (B5)<br>Beam category B6 (B6)<br>Beam category B7 (B7)<br>Beam category B8 (B8) |
| Optical cover | Front-glass for downlighting (DOWN) and uplighting versions (UP)                                                                                                                                     |
| Ignitor       | Series (SI), integral<br>Hot-restrike, electronic (HRE), integral                                                                                                                                    |

## Specifications

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installation | On mast head frame, ceiling, wall and floor mounting<br>The lamp is easily installed and lamping/relamping can be done with one hand only<br>Precision aiming facilities at both top and bottom of the housing for use in conjunction with the ZVF403 PAD accessory<br>Adjustment of mounting bracket: 360°<br>Ambient temperature outdoor: 35°C (25°C indoor)<br>Drag factor (Cx): 0.93<br>Projected area in 70° position: 0.20 m<br>Max adjustment from the horizontal: -90 / +90° |
| Maintenance  | Lamp access by opening clips of rear cover (tool-less)<br>Equipped with knife connector system, which automatically disconnects the mains power when the rear-access back cover is opened (no need for additional relay/contactors or any extra cabling)<br>No internal cleaning required                                                                                                                                                                                            |

|                         |                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Options                 | Aiming memory (AM) to safeguard the original aiming position of the luminaire during servicing<br>Hot re-strike versions enabling immediate restoration of lighting after power supply failure<br>Uplighting versions available for architectural lighting<br>Special cable sleeve version for tropical regions                                                              |
| Materials and finishing | Housing and rear cover: non-corrosive, high-pressure die-cast aluminum<br>Glass: chemically toughened, 3 mm thick (for downlighting versions), ceramic 3 mm thick (for uplighting versions)<br>Mounting bracket: zinc nickel treated<br>Clips: stainless steel (to secure the back cover)<br>Reflector: anodized and brightened 99.99% aluminum<br>Finishing in raw aluminum |

|                   |                                                                                                                                                                                                                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accessories       | External louver (ZVF403 GS), precision (ZVF403 PAD) aiming device                                                                                                                                                                                                                                                |
| Remarks           | Equipped with series ignitor (SI) and terminal block in aluminum connection box on the bracket<br>Color filters for architectural lighting are available on request<br>Wire mesh to prevent large glass falling out<br>Pre-wired 380 - 415 V / 50 Hz gear trays (ZVF320) are available, to be ordered separately |
| Main applications | Outdoor sport stadiums                                                                                                                                                                                                                                                                                           |

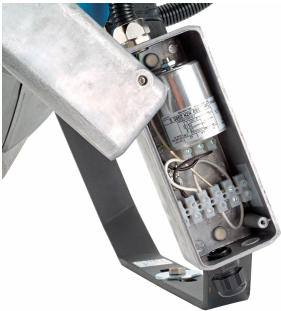
# ArenaVision MVF404

## Versions

ArenaVision MVF404 sports flood-lighting luminaire



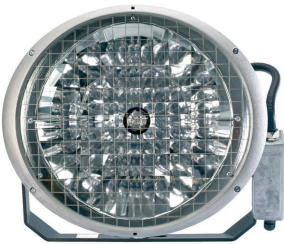
## Product details



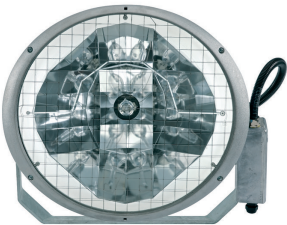
OPDP\_MVF403i\_0027-Detail photo



OPDP\_MVF403i\_0019-Detail photo



OPDP\_MVF403i\_0025-Detail photo



# ArenaVision MVF404

## Application conditions

|                       |                |
|-----------------------|----------------|
| Maximum dimming level | Not applicable |
|-----------------------|----------------|

## Approval and application

|                              |      |
|------------------------------|------|
| Mech. impact protection code | IK08 |
|------------------------------|------|

|                                            |   |
|--------------------------------------------|---|
| Surge protection (common/<br>differential) | - |
|--------------------------------------------|---|

## Controls and dimming

|          |    |
|----------|----|
| Dimmable | No |
|----------|----|

## General information

|                             |   |
|-----------------------------|---|
| Luminaire light beam spread | - |
|-----------------------------|---|

|         |     |
|---------|-----|
| CE mark | Yes |
|---------|-----|

|                     |              |
|---------------------|--------------|
| Light source colour | 956 daylight |
|---------------------|--------------|

|                         |      |
|-------------------------|------|
| Optical cover/lens type | DOWN |
|-------------------------|------|

|                   |    |
|-------------------|----|
| Flammability mark | NO |
|-------------------|----|

|      |   |
|------|---|
| Gear | - |
|------|---|

|                  |         |
|------------------|---------|
| Lamp family code | MHN-SEH |
|------------------|---------|

|            |        |
|------------|--------|
| Lamp power | 2000 W |
|------------|--------|

|                      |   |
|----------------------|---|
| Number of gear units | - |
|----------------------|---|

|                         |   |
|-------------------------|---|
| Number of light sources | 1 |
|-------------------------|---|

|                     |        |
|---------------------|--------|
| Product family code | MVF404 |
|---------------------|--------|

## Initial performance (IEC compliant)

|                                |        |
|--------------------------------|--------|
| Init. Corr. Colour Temperature | 5600 K |
|--------------------------------|--------|

|                              |     |
|------------------------------|-----|
| Init. Colour rendering index | >90 |
|------------------------------|-----|

## Light technical

|                                |   |
|--------------------------------|---|
| Standard tilt angle side entry | - |
|--------------------------------|---|

|                              |   |
|------------------------------|---|
| Standard tilt angle post-top | - |
|------------------------------|---|

## Mechanical and housing

|        |           |
|--------|-----------|
| Colour | Aluminium |
|--------|-----------|

## General information

| Order Code | Full Product Name             | Optic type       |
|------------|-------------------------------|------------------|
| 50205300   | MVF404 MHN-SEH2000W/956 B6 SI | Beam category B6 |
| 60409200   | MVF404 MHN-SEH2000W/956 B8 SI | Beam category B8 |

