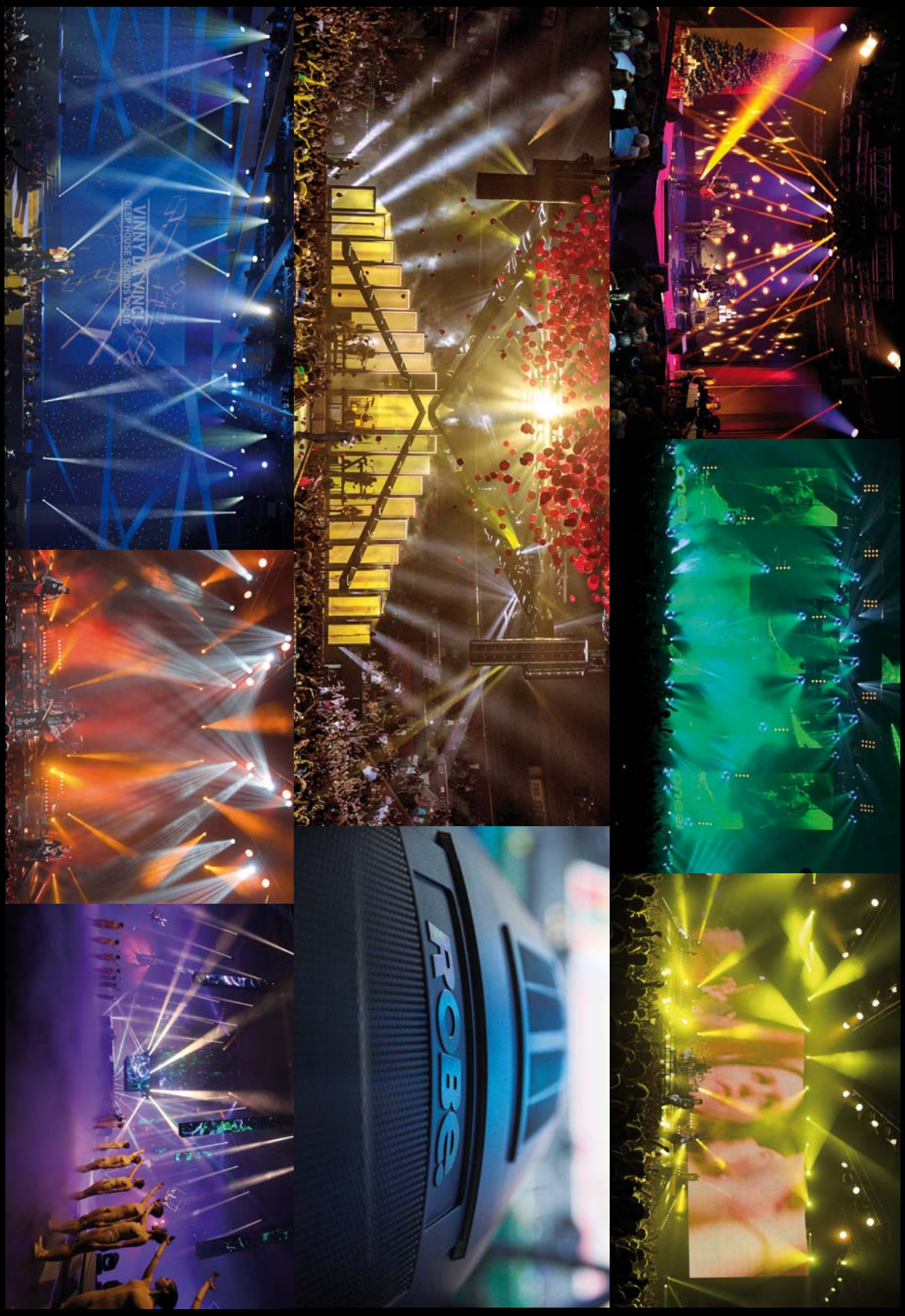
BMFL™

BRIGHT MULTI FUNCTIONAL LUMINAIRE

Blade

ROBE®


VINNY DA VINCI
DEEP HOUSE SOUNDS
ROBE

BROADCAST THEATRE FILM LIVE

GAME CHANGER

TECHNICAL SPECIFICATIONS

The BMFL™ - Bright Multi-Functional Luminaire - the game changer in the world of moving lights, has another trick up it's sleeve - four fast shutter blades with smooth and precise movement in the new BMFL™ Blade lighting fixture. Four fast shutter blades with smooth and precise movement in the new BMFL™ Blade lighting fixture. Individually angled and positioned within a frame - which itself can rotate through 90 degrees, providing a sharp or soft, precisely repeatable, frame for the projected image. Producing a new series of fast-moving in-air effects through pre-programmed shape and movement sequences of the blades, gobo images can be trimmed or framed in a regular, triangular or trapezoid shape. Each pair of opposing blades can close to a complete blackout. Two gobo wheels – one rotating with six „SLOT&LOCK" gobo positions plus another with 8 static gobos can be combined with the Animation wheel to create numerous dynamic projected effects. Add all this to the already acclaimed BMFL™ features including: exceptionally smooth linear dimming, imperceptible high definition colour mixing, full width beam, output in excess of 250.000 lux at 5 metres - and the Robe EMS™ (Electronic Motion Stabiliser) technology, enabling the BMFL™ to both move and stop faster and more precisely than any other fixture in its class - all this housed in a compact body profile weighing just 37.9 kgs.

Source

- Lamp: Compact short-arc metal halide lamp
- Base: PGJ 28 Lok-it!
- Approved model: Osram Lok-it! HTI 1700/PS
- Lifetime: 750 hours @ 1.700W / 1.500W / silent mode
- Colour Temperature: 6.000 K
- CRI: 90
- Control: Automatic and remote on/off
- Ballast: Electronic

Optical System

- Fixture total lumen output:
  - 40.000 lm at 1.700W
  - 36.500 lm at 1.500W
  - 32.000 lm at silent mode
- 250.000 lux @ 5m, 2.500 lux @ 50m
- Dichroic glass reflector for maximising the light efficiency
- Zoom optical system: 11:1
- Beam angle: Zoom range 5° – 55°
- Output Lens diameter: 160 mm

Rotating Gobos

- Gobo wheel: 6x Rotating Glass gobos
- Outside diameter: 30.8 mm
- Image diameter: 25.0 mm
- Thickness: 1.1 mm
- Max. thickness: 4.0 mm
- Material: High temperature borofloat or better glass

Static Gobos

- Gobo wheel: 8x Static Glass gobos
- Outside diameter: 30.8 mm
- Image diameter: 25.0 mm
- Thickness: 1.1 mm
- Max. thickness: 4.0 mm
- Material: High temperature borofloat or better glass

Framing Shutters System

- Blade: 4 Blades, each with separate movement and rotation control
- Movement: Smooth with variable speed, ultrafast blade movements for creating mid-air effects
- Pre-programmed: Shape and blade sequences
- Rotation: 90° of the complete framing system

Mechanical Specification

- Height: 812 mm (32.0") – head in vertical position
- Width: 483 mm (19.0")
- Depth: 335 mm (13.2")
- Weight: 37.9 kg (83.6 lbs)
- Fixation option: Pan/Tilt-lock mechanism

Electrical Specification

- Power supply: Electronic auto-ranging
- Input voltage range: 200–240 V, 50/60 Hz
- Power consumption: 2.000 W at 230 V / 50 Hz

Thermal

- Maximum ambient temperature: 45 °C (113 °F)
- Maximum surface temperature: 170 °C (338 °F)

Electromechanical Effects

- Cyan: 0–100 %
- Magenta: 0–100 %
- Yellow: 0–100 %
- Variable CTO: 2.700–6.000K
- Colour wheel 1 with 6 fixed dichroic colours: deep red, deep blue, orange, green, magenta, congo blue + white
- Colour wheel 2 with 6 replaceable "SLOT&LOCK" dichroic colours: pink, lavender, laser green, 9.000K CTB, minus half and minus green + white
- Framing shutters: 4 individually positionable blades plus rotation of the complete frame system +-45°
- Aluminium Animation Wheel: used alone or in combination with gobos, rotating in both directions at variable speed
- Effects: 6-facet circular and 6-facet linear rotating and indexable prisms
- Rotating Gobo wheel: 6 rotating, indexable, replaceable "SLOT&LOCK" glass gobos + open
- Static Gobo wheel: 8 static, replaceable "SLOT&LOCK" glass gobos + open
- Iris: Motorized, stepless, pulse effects up to 3 Hz
- Frost: Variable Light, Medium and Heavy Frosts
- Dimmer: Optimized dual blade system for exceptional smooth dimming
- Shutter: Separate dual blade system, Variable strobe effect up to 10 Hz, full black out
- Motorized zoom and focus
- Pan: 540 °
- Tilt: 270 °
- EMS™: Electronic Motion Stabiliser system for reducing beam deviation caused by truss movement or vibration

Control and Programming

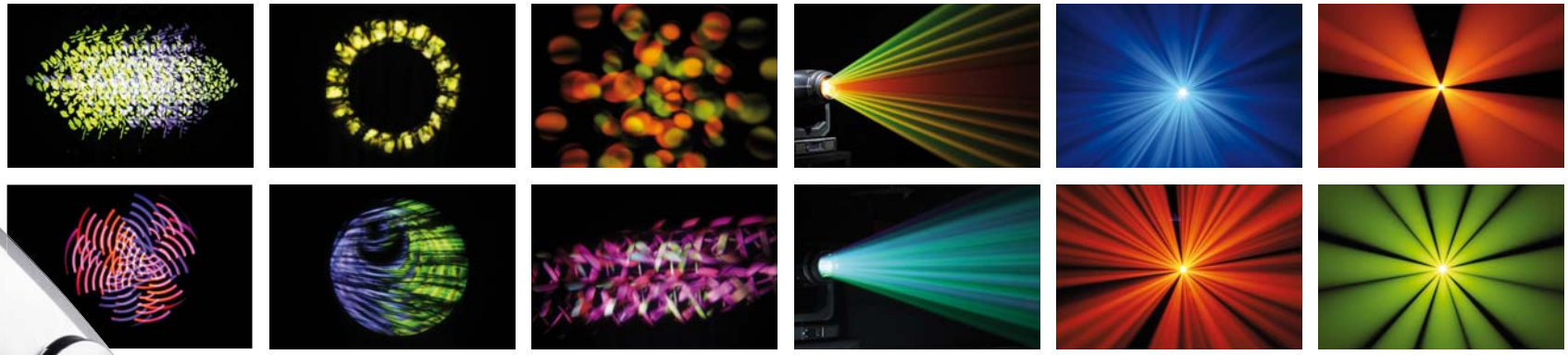
- Setting & Addressing: ROBE Navigation System 2 (RNS2)
- Protocols: USITT DMX-512, RDM, ArtNet, MA Net, MA Net2, sACN
- Wireless CRMX™ technology from Lumen Radio (on request)
- Control channels: 49, 42, 41
- 3 DMX protocol modes
- 3-editable programs, each up to 100 steps
- Stand-alone operation
- QVGA Robe touch screen with battery backup, gravitation sensor for auto screen positioning, operation memory service log with RTC
- Pan/Tilt resolution: 16 bit
- Movement control: Tracking and vector
- CMY & CTO: 8 bit
- Colour wheel positioning: 8 or 16 bit
- Framing Shutters system: 8 bit
- Rotating Gobo Wheel positioning: 8 bit
- Static Gobo Wheel positioning: 8 bit
- Gobo indexing & rotation: 8 or 16 bit
- Animation Wheel : 8 bit
- Animation Wheel rotation: 8 or 16 bit
- Iris: 8 or 16 bit
- Frost: 8 bit
- Zoom: 8 or 16 bit
- Focus: 8 or 16 bit
- Dimmer: 8 or 16 bit
- Ethernet port: Art-Net, MA Net, MA Net 2, sACN
- Data in/out: Locking 3-pin & 5-pin XLR
- Power in: Neutrik PowerCon
- Built-in analyser for easy fault finding

Rigging

- Mounting points: 2 pairs of ¼-turn locks
- Universal operating position
- 3 mounting positions: 0°, 32° and 90°
- 2x Omega brackets with ¼-turn quick locks

Impressive Aerial and Graphic Effects

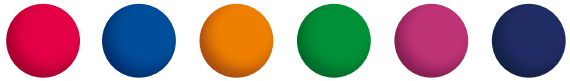
The BMFL™ Blade features one rotating gobo wheel whit 6 gobos, one static gobo wheel with 8 gobos and two rotating prisms – one linear six-facet prism and the other a six-facet circular prism, both of which can be used for spectacular, detailed aerial effects and projection. Beautiful artistic animations and effects are possible to achieve thanks to the animation wheel and its combinations with rotating and static gobos.



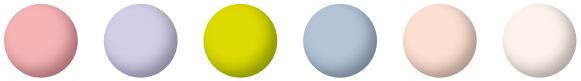
Static Gobo Wheel

Rotating Gobo Wheel

Colour Wheel 1

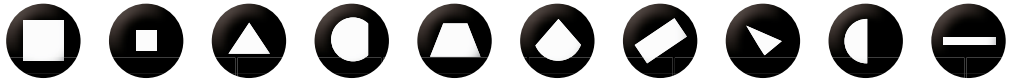


Colour Wheel 2



Framing Shutters Module

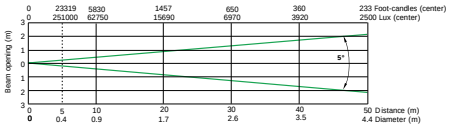
Four fast, smooth moving, shutter blues are individually angled and positioned within a frame, which itself can rotate trough 90 degrees. As well as providing a sharp or soft, precisely repeatable, frame for the projected image, the system produces a new series of fast moving in-air effects through pre-programmed blade shape and movement sequences. (Patent pending).



PHOTOMETRIC DIAGRAMS

Min. Zoom

Lamp power=1700W



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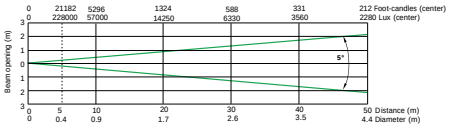

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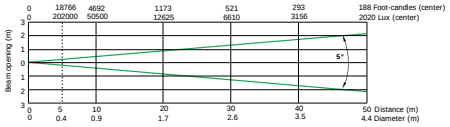

Min. Zoom with Light Frost

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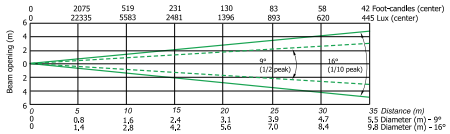

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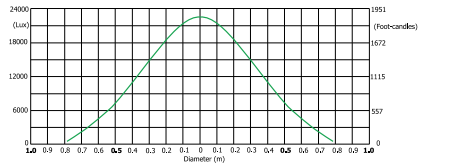

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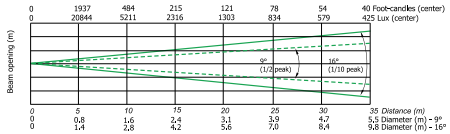

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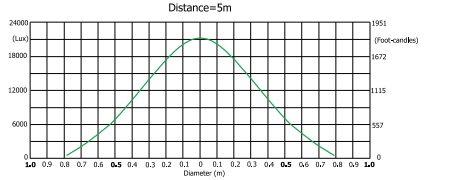

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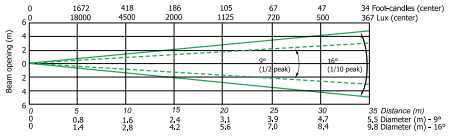

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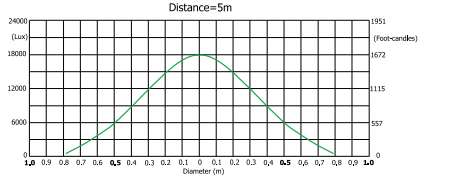

Min. Zoom with Medium Frost

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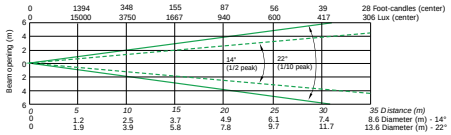

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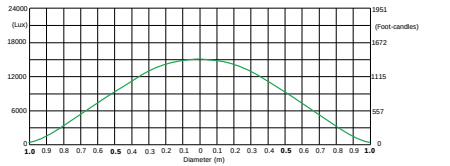

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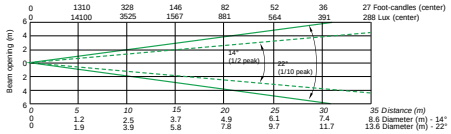

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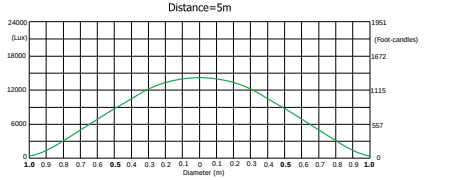

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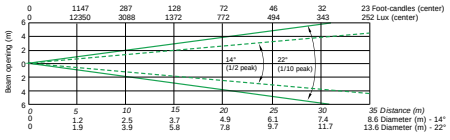

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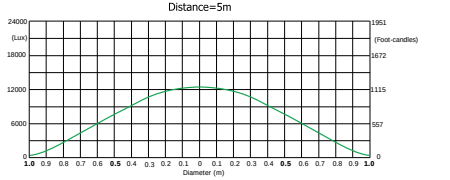

Min. Zoom with Heavy Frost

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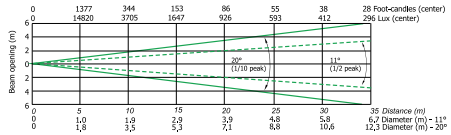

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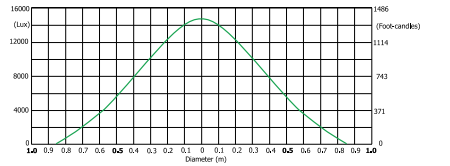

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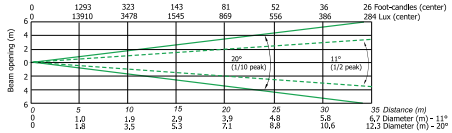

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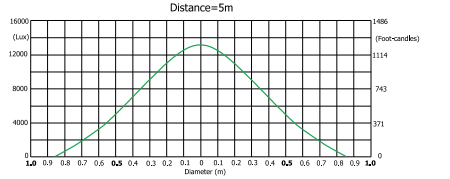

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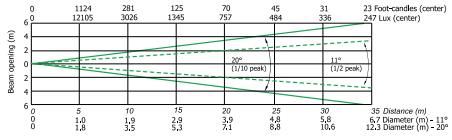

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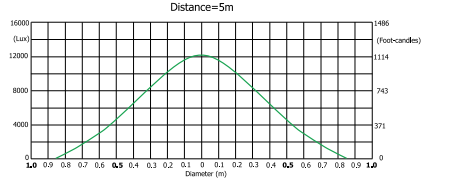

Max. Zoom

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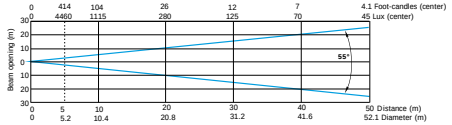

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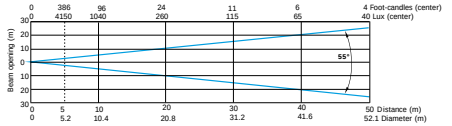

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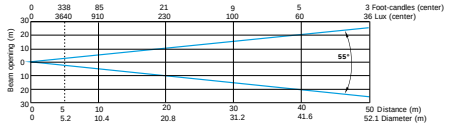

Max. Zoom with Light Frost

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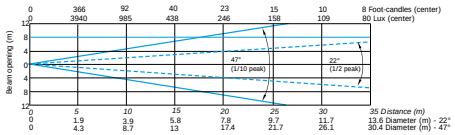

Illuminance distribution

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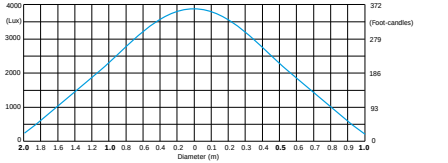

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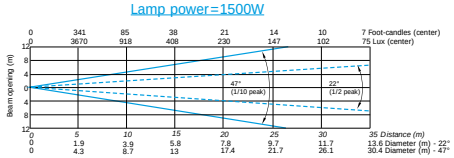

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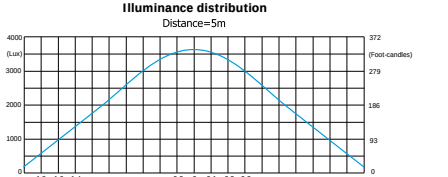

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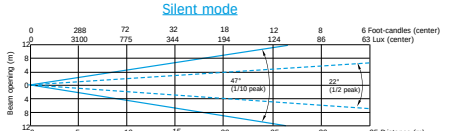

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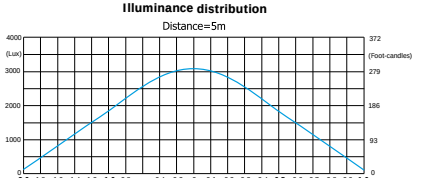

Max. Zoom with Medium Frost

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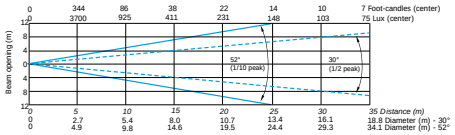

Illuminance distribution

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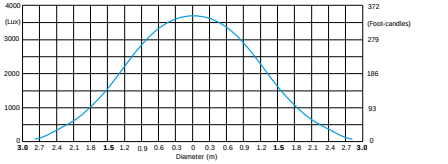

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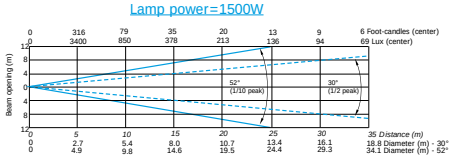

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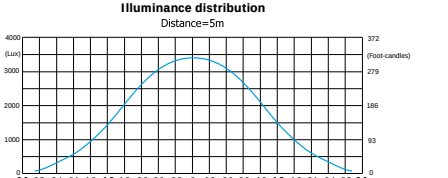
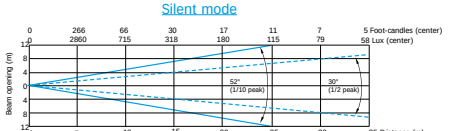


Silent mode



Illuminance distribution

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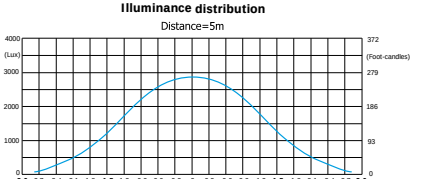
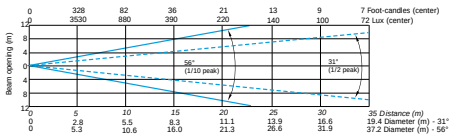


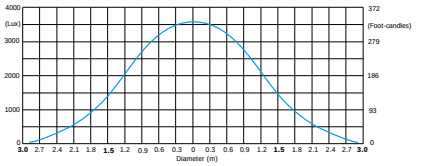
Max. Zoom with Heavy Frost

Lamp power=1700W

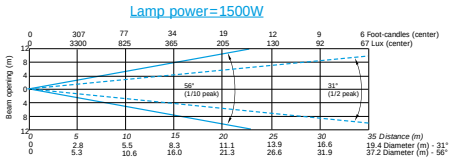


Illuminance distribution

Distance=5m

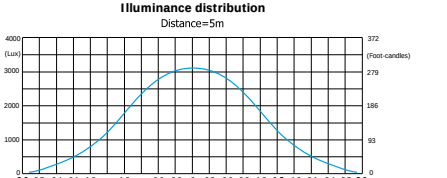


Lamp power=1500W

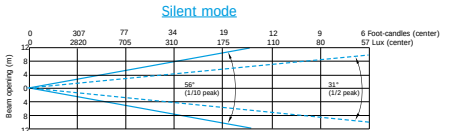


Illuminance distribution

Distance=5m

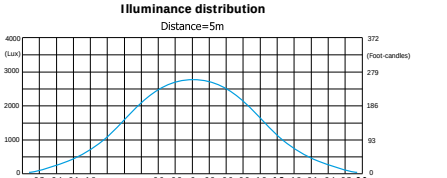


Silent mode



Illuminance distribution

Distance=5m



PHOTOMETRIC DIAGRAMS

78 78 78

ROBE

Packaging

The BMFL™ Blade is supplied in a cardboard box or in two different types of custom flight cases – Single Top Loader Case or Dual Top Loader Case. Both cases are equipped with a specially designed soft rubber insert for maximum protection of the light during transport and handling.

Cardboard for ROBIN BMFL™ Blade

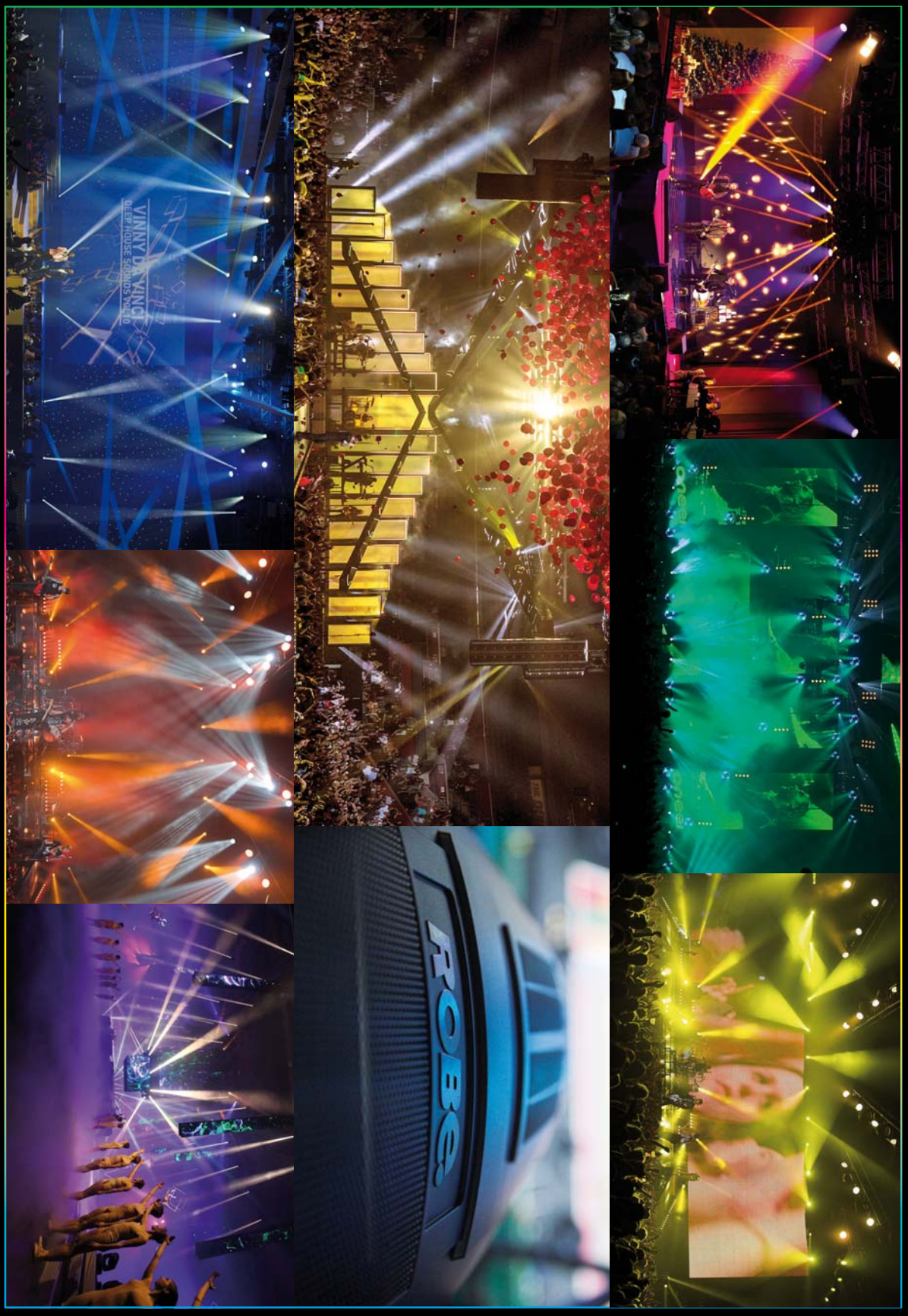
630 x 630 x 1100 mm
(24.8 " x 24.8 " x 43.3 ")

Single Top Loader Case for ROBIN BMFL™ Blade

600 x 720 x 860 mm
(23.6 " x 28.4 " x 33.9 ")

Dual Top Loader Case for ROBIN BMFL™ Blade

1450 x 600 x 860 mm
(57.1 " x 23.6 " x 33.9 ")


VINNY DA VINCI
DEEP HOUSE SOUNDS GOOD
ROBE

YOU ASKED, WE DELIVERED

BMFL™

BMFL™ Blade

www.robe.cz

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