invisua
LIGHTCREATORS

INVISUA MASTERSPOT 2 family

TYPICAL APPLICATION

The Invisua Masterspot 2 family is designed for use in retail and hospitality applications to provide adjustable or dynamic lighting.

The Invisua Masterspot fixtures provides high-quality white and coloured light from a single luminaire, allowing for perfect illumination of products and spaces, or adding theatrical or dramatic lighting effects to set a specific mood or atmosphere.

The integrated zoom optics allows for adjustment of the beam angle to match the requirements of each application.

The Invisua Masterspot products are wirelessly controlled via the proprietary Invisua ChromaMesh network. This makes it possible to add the fixtures to an existing installation without requiring any changes to the infrastructure. The user-interface is designed to be used without any technical knowledge.

More information can be found at www.invisua.com

FEATURES AND BENEFITS

Feature	Benefit
High-quality white light • High CRI whites • Adjustable colour temperature	Highlight the quality of the illuminated products • Higher perceived value • Optimal customer experience
Dynamic and coloured light • Soft pastels • Saturated colors	Attract more attention • Create Stopping power • More theatrical displays
Wireless Control • Initiative control with smartphone, tablet or computer • Web-based access	Easy to control – Flexible • Monitor and adjust colour • Control from anywhere
Global-track compatible • No data track • No extra cabling needed	Plug-and-play installation • Cost efficient • Add to existing infrastructure
Adjustable beam width • Change beam angle from 12 to 24º	Adapt lighting to changing settings • No need to choose beam-width up front
Long lifetime • Quality components • Designed and manufactured in the Netherlands	Durable solution • No need for extra fixtures or filters • No need to replace fixtures for different beam width
Easy control with #gofilter software • No technical knowledge required • No software to be installed	Easily create shows • Adjust the lighting within seconds • Schedule shows at different times

DESCRIPTION

The Invisua Masterspot 2 with dynamic lighting is an easy retrofit for retail and hospitality track fixtures.

The Invisua Masterspot connects to the Invisua ChromaMesh network for easy control and management of the luminaires.

Dynamic light scenes can be made with the Invisua #gofilter web-based application.

Each fixture is individually calibrated to ensure high quality colour over the life of the product.

The light output and colour of each fixture can be accurately controlled within a large gamut and allows for dimming down to 0.1%. Integrated zoom optics allows for adjustment of the beam angle from 12° to 24°.
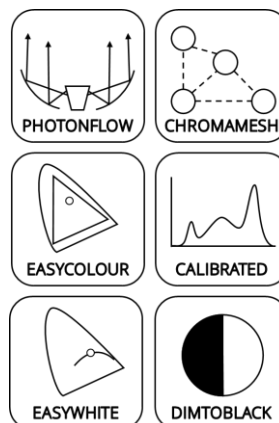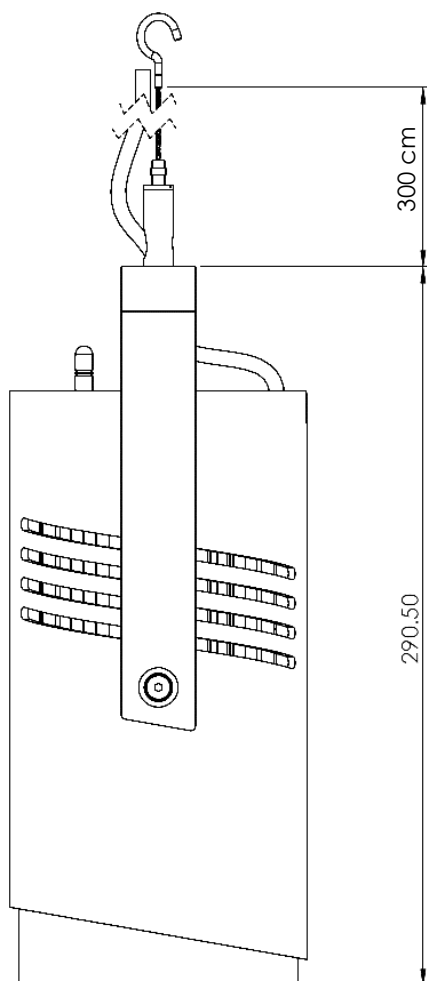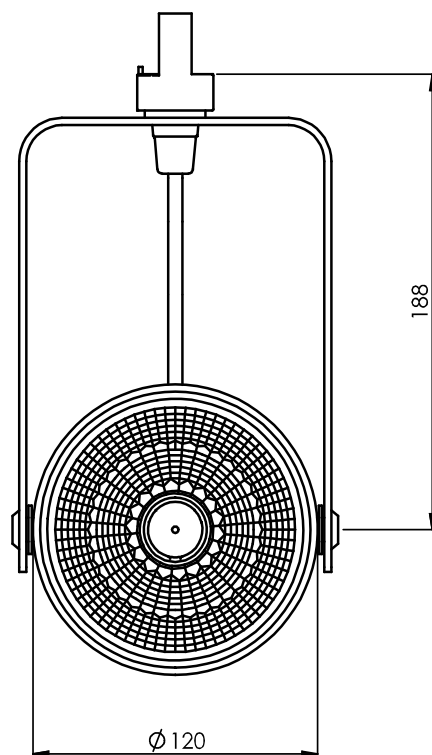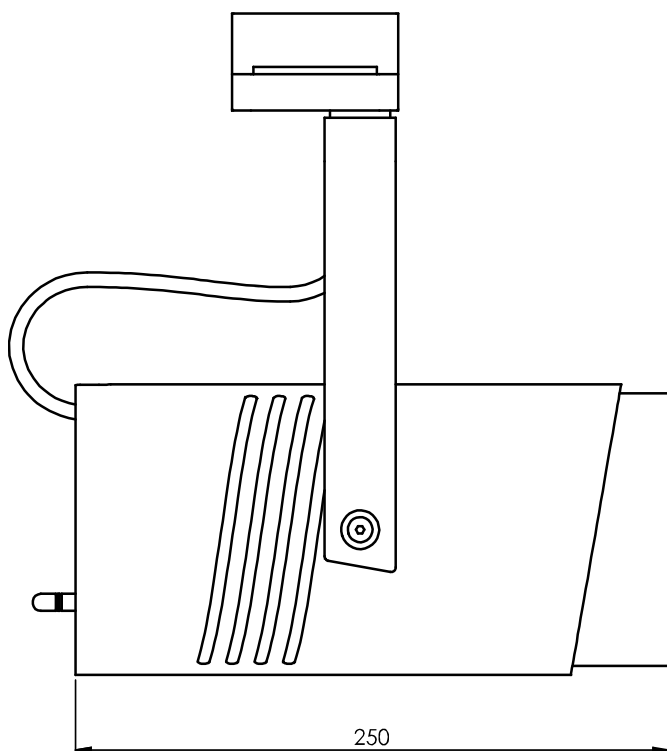
TECHNICAL DATA

Dimensions in mm

Specification	Min	Typ	Max	Unit
Power consumption			96	W
Voltage input	90	230	250	VAC
Power factor	0.95	0.99		
Frequency		50/60		Hz
Colour temperature	1000		12500	K CCT
Colour rendering index (3000K)	90	93		
R9 (3000K)	50	89		
Beam angle	12	Adjustable	24	Degree
Dimming Range	0.10		100	%
Visual comfort			13	UGR<13
Ambient Operating Temp.	-10		+35	°C
Lifetime	50000			hours
Lumen maintenance		L70B50 @ 50000hrs		
Ingress Protection		IP20		
Cable length (Pendant)		3		m
Weight		2.3		kgs

Mounting versions

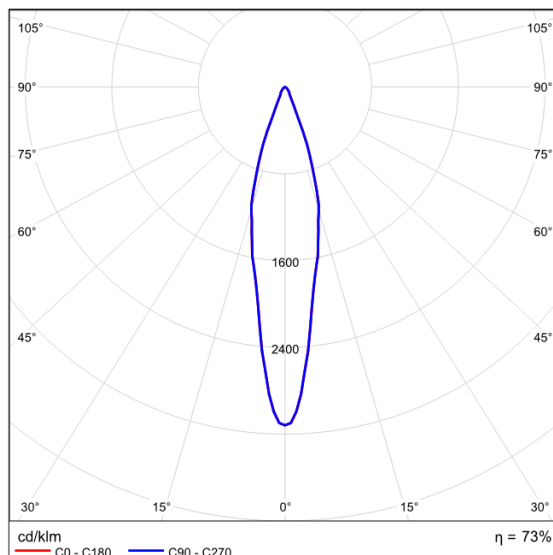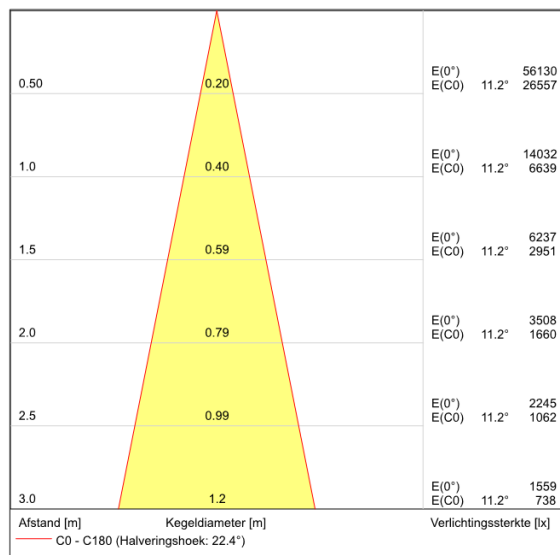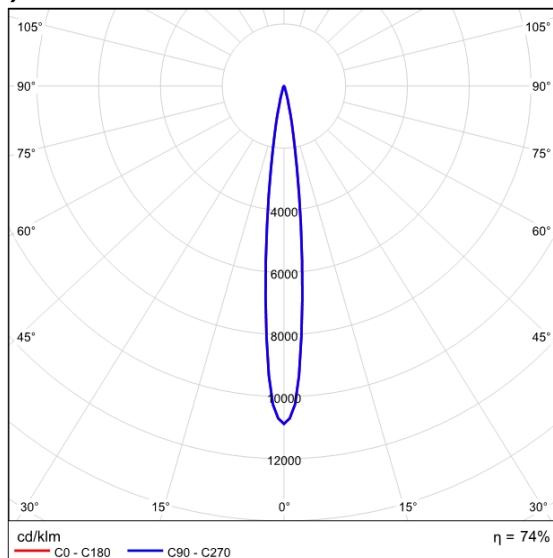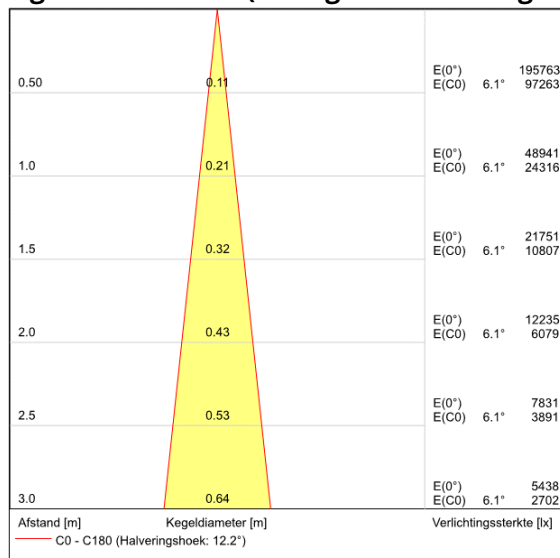| Model	Mounting type
MS2-PD-LON-xx40-rr	Pendant, 3m cable with hook, open wire ends
MS2-TR-LON-xx40-rr	Global Trac track adapter for 3 circuit Global Trac
MS2-TR-JPN-xx40-rr	Japan-compatible track adapter

invisua
LIGHTCREATORS

250

188

Ø 120

300 cm

290.50

PHOTONFLOW   CHROMAMESH

EASYCOLOUR   CALIBRATED

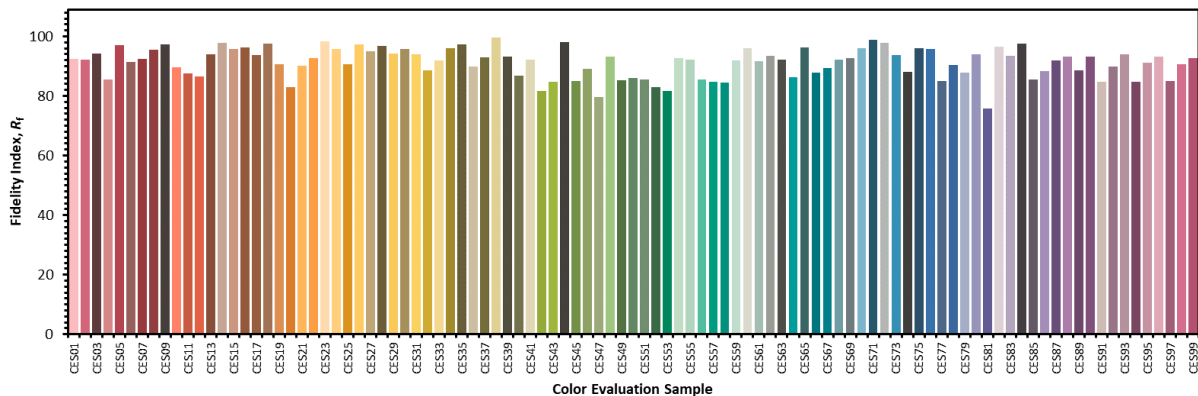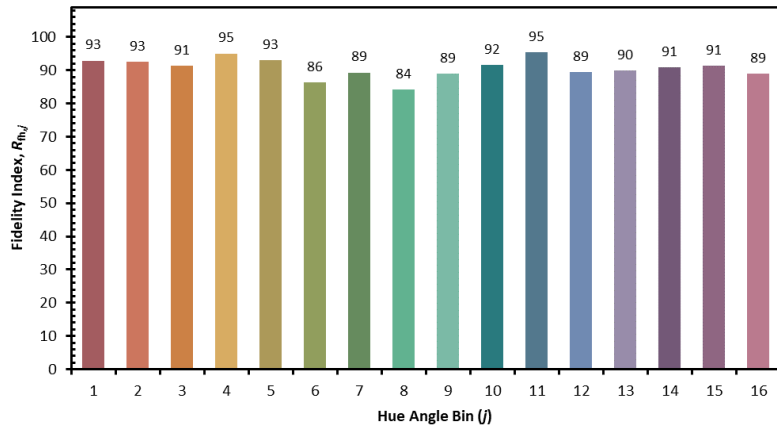EASYWHITE   DIMTOBLACK

TECHNICAL - DETAILED INFORMATION

Power derating figures

POWER DERATING AT CONTINUOUS OPERATION @ 3000K

Note: chart is indicative Actual derating is based on internally measured temperatures

MAX POWER (W) vs *AMBIENT TEMPERATURE (°C)*

POWER DERATING VS CCT AT CONTINUOUS OPERATION

Note: chart is indicative. Performance may slightly vary between products. Actual derating is based on internally measured temperatures

NORMALIZED POWER vs *CCT (K)*

- Ta=15°C
- Ta=20°C
- Ta=25°C
- Ta=30°C

Light distribution (12 degree and 24 degree)

Afstand [m]	Kegeldiameter [m]		Verlichtingssterkte [lx]
0.50	0.11	E(0°)	195763
		E(C0) 6.1°	97263
1.0	0.21	E(0°)	48941
		E(C0) 6.1°	24316
1.5	0.32	E(0°)	21751
		E(C0) 6.1°	10807
2.0	0.43	E(0°)	12235
		E(C0) 6.1°	6079
2.5	0.53	E(0°)	7831
		E(C0) 6.1°	3891
3.0	0.64	E(0°)	5438
		E(C0) 6.1°	2702

C0 - C180 (Halveringshoek: 12.2°)

cd/klm — C0 - C180 — C90 - C270 — η = 74%

Afstand [m]	Kegeldiameter [m]		Verlichtingssterkte [lx]
0.50	0.20	E(0°)	56130
		E(C0) 11.2°	26557
1.0	0.40	E(0°)	14032
		E(C0) 11.2°	6639
1.5	0.59	E(0°)	6237
		E(C0) 11.2°	2951
2.0	0.79	E(0°)	3508
		E(C0) 11.2°	1660
2.5	0.99	E(0°)	2245
		E(C0) 11.2°	1062
3.0	1.2	E(0°)	1559
		E(C0) 11.2°	738

C0 - C180 (Halveringshoek: 22.4°)

cd/klm — C0 - C180 — C90 - C270 — η = 73%

Light quality (typical)

CCT	2500	2700	3000	4000	6000
Flux Typ [lm]	2550	2900	3000	2700	2000
Colour consistency Typ [SDCM]	1.5	0.6	0.8	0.5	0.5
TM-30 Rf Typical	91	91	91	89	82
TM-30 Rg Typical	103	103	105	103	100
Ra	93	94	93	93	91
R9	72	83	89	67	74

Colour quality at CCT of 3000K:

SOURCE CHROMATICITY COMPARISON

SPECTRAL POWER DISTRIBUTION COMPARISON

COLOR VECTOR GRAPHIC
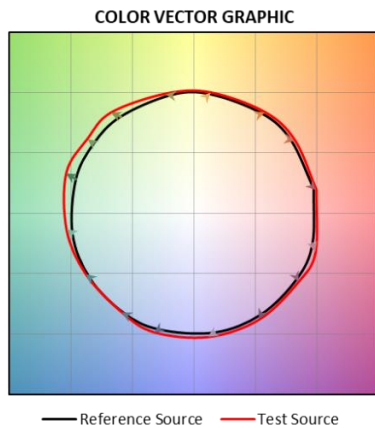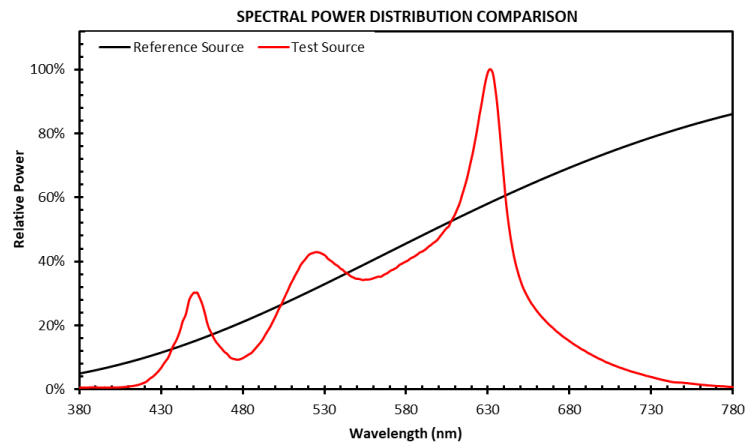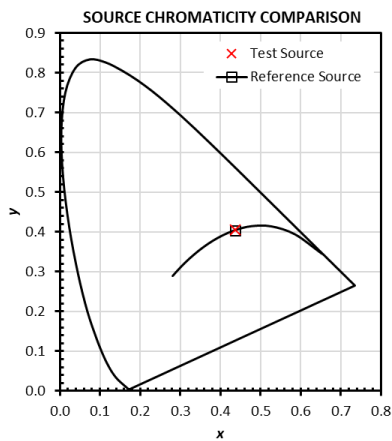
ACCESSORIES

LPR2-003	Lightport for EU
OP20-0001-02.01	Glare optimizer
OP20-0004-03.02	Circular beam spreader C3
OP20-0004-04.02	Circular beam spreader C5
OP20-0004-05.02	Circular beam spreader C15
OP20-0004-06.02	Circular beam spreader C40
OP20-0004-07.02	Circular beam spreader C80
OP20-0004-11.02	Elliptical beam spreader E0140
OP20-0004-12.02	Elliptical beam spreader E1560
OP20-0004-13.02	Elliptical beam spreader E3060
ME02-0011-01.01	Optical accessories mounting spring

ORDERING CODE

MS2-[XX]-[YYY] [ZZZ]40-[RR]

XX	Type	YYY	Region / track adapter	ZZZ	Color code	RR	Rotation lock
TR	Track	LON	Europe	WHT	White	01	No rotation lock
PD	Pendant	JPN	Japan	BLK	Black	11	With rotation lock

CERTIFICATIONS

SAFETY

Before installation read the installation manual carefully.
Installation is only authorized to trained professionals.
Make sure that everyone working with the product during installation is known with the content of the installation manual.

PROTECTIONS

The LED luminaires contain a sophisticated over-temperature protection. In case of a high ambient temperature the luminaire automatically dims to a lower light output.

MAINTENANCE

Maintenance is not needed throughout the lifetime of the product, except cleaning and safety inspection of the product.

Information in this document is property of Invisua and shall not be used without written permission of Invisua.
The information given might be subject to change without prior warning.

COMPLIANCY TO STANDARDS

1999/5/EC (R&TTE) Radio and Telecommunications Terminal Equipment
-   EN 300 440-2:V1.4.1 (Radio)
-   EN 301 489-1:V1.9.2 (EMC)
-   EN 301 489-3:V1.4.1 (EMC)
2006/95/EC (LVD)   Safety
-   EN 60598-1:2008 +A11:2009
-   EN 60598-2-1:1989
-   EN 61347-1:2008 +A1:2011 + A2:2012
-   EN 61347-2-13:2014
2004/108/EC (EMC)   Electromagnetic compatibility
-   EN 55015:2013
-   EN 61547:2009
-   EN 61000-3-2:2014
-   EN 61000-3-3:2013
2011/65/EC (RoHS)   Restriction of the use of certain hazardous substances
-   EN 50581:2012

Made in the Netherlands
Invisua
Geldrop, The Netherlands
Tel: +31 40 737 0190
Website: www.invisua.com
E-mail: info@invisua.com