



MASTER LED spot ExpertColor AR111



MAS LEDExpertColor 20-100W 940 AR111 45D

MASTER, LEDspot, AR111, 100 W, G53, 4000 K, 1270 lm, CRI 95, 40000 h

The MASTER LEDspot LV ExpertColor creates a warm and comfortable ambience for hospitality venues, homes and restaurants. It creates ambience with superior lighting that has a customised spectrum, high CRI and deep dimming features. The result? A beautiful lighting experience. What's more, the innovative, trimless lens design will also suit almost any interior decor with its clean and neat look. In addition, you can take advantage of the full ExpertColor family, which also includes LEDspot LV and LEDspot Par lamps.

Product data

General Information	
Cap base	G53
Nominal lifetime	40,000 h
Switching Cycle	50,000
Lighting Technology	LEDspot
Flux measurement reference	Narrow Cone
Warranty period	5 years

Light Technical	
Colour Code	940 [CCT of 4000K]
Beam angle (nom.)	45 degree(s)
Luminous Flux	1,270 lm
Luminous intensity (nom.)	2,300 cd
Colour designation	Cool White (CW)

Correlated Colour Temperature (Nom)	4000 K
Luminous efficacy (rated) (nom.)	63 lm/W
Colour consistency	<4
Colour rendering index (CRI)	95
LLMF at end of nominal lifetime (nom.)	70 %
Luminous flux in 90° cone (rated)	1,270 lm
Photobiological safety according to EN 62471	RG1

Operating and Electrical	
Line Frequency	50 to 60 Hz
Input frequency	50 to 60 Hz
Power Consumption	20 W
Lamp current (nom.)	2,000 mA
Wattage equivalent	100 W

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Starting time (nom.)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.7
Voltage (nom.)	12 V

Temperature

T-Case maximum (nom.)	77 °C
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Controls and Dimming

Dimmable	Only with specific dimmers
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Mechanical and Housing

Lamp Finish	Clear
Bulb shape	AR111
Net Weight (Piece)	0.162 kg

Approval and Application

Energy Efficiency Class	G
Suitable for accent lighting	Yes
Energy consumption kWh/1,000 hours	20 kWh
EPREL Registration Number	1122529
CE mark	Yes
EU RoHS compliant	Yes

EyeComfort	Yes
Flickering value (PstLM)	1
Stroboscopic effect	1.5
Ambient temperature range	-20°C to 45°C

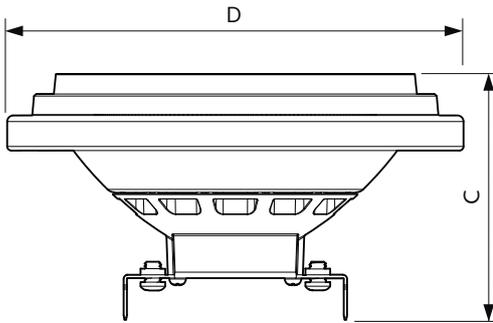
Application Conditions

Can it be used in closed luminaires	No
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Product Data

Order product name	MAS LEDExpertColor 20-100W 940 AR111 45D
Full product name	MAS LEDExpertColor 20-100W 940 AR111 45D
Full EOC	871951442975800
Order code	929003479102
Material no. (12 NC)	929003479102
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8719514429758
Numerator – packs per outer box	6
EAN/UPC - Case	8719514429765

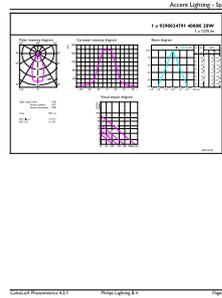
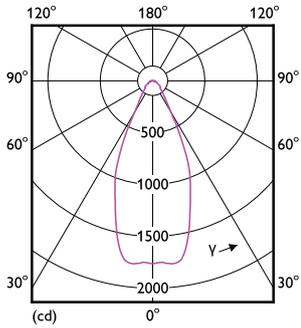
Dimensional drawing



Product	D	C
MAS LEDExpertColor 20-100W 940 AR111 45D	111 mm	62 mm

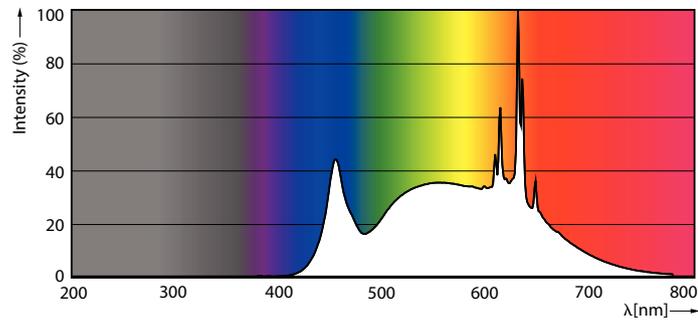
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Photometric data



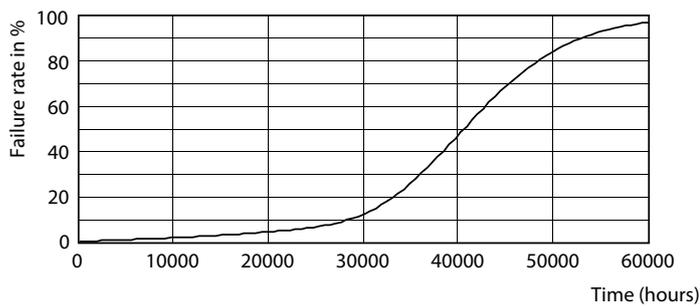
Light Distribution Diagram - MAS LEExpertColor 20-100W 940 AR111 45D

Accent Lighting Spots - MAS LEExpertColor 20-100W 940 AR111 45D

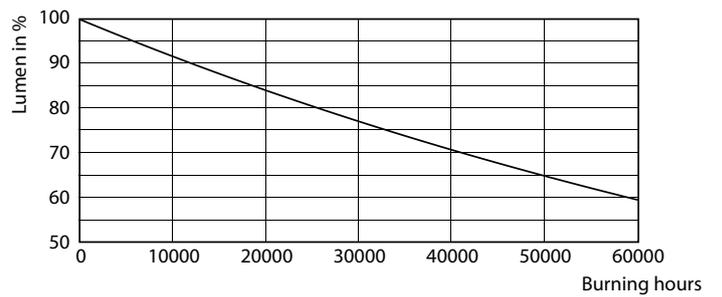


Spectral Power Distribution Colour - MAS LEExpertColor 20-100W 940 AR111 45D

Lifetime



Life Expectancy Diagram



Lumen Maintenance Diagram - MAS LEExpertColor 20-100W 940 AR111 45D

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