PHILIPS

MAS LEDExpertColor 20-100W 940 AR111 45D

929003479102



MASTER, LEDspot, AR111, dimmable, 100 W, G53, 4000 K, 1270 lm, CRI 95, 40000 hour(s)



MASTER, LEDspot, AR111, dimmable, 100 W, G53, 4000 K, 1270 lm, CRI 95, 40000 hour(s), 63 lm/W, EEL G, PF 0.7, Beam angle 45 degree(s), RG1, IP20, SVM 1.5, PstLM 1

General Information

Cap-Base	G53
Nominal lifetime	40,000 hour(s)
Switching Cycle	50,000
Lighting Technology	LEDspot
Flux measurement reference	Narrow Cone
Warranty period	5 years

Light Technical

Color Code	940 [CCT of 4000K]
Beam Angle (Nom)	45 degree(s)
Luminous Flux	1,270 lm
Luminous Intensity (Nom)	2,300 cd
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	63 lm/W
Color Consistency	<4
Color 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
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

Controls and Dimming

Dimmable	Only with specific dimmers

Mechanical and Housing

Bulb 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/1000 h	20 kWh
EPREL Registration Number	1122529
CE mark	Yes
EU RoHS compliant	Yes
EyeComfort	Yes
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	1.5
Ambient temperature range	-20 °C to 45 °C

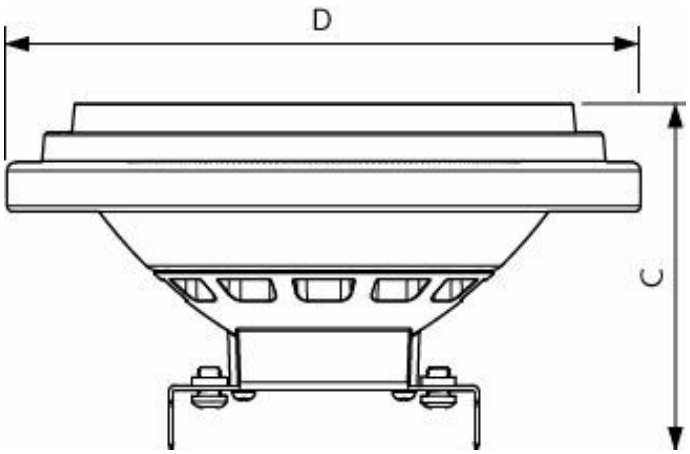
Application Conditions

can it be used in closed luminaires	No
Wireless Technology	Not applicable

Product Data

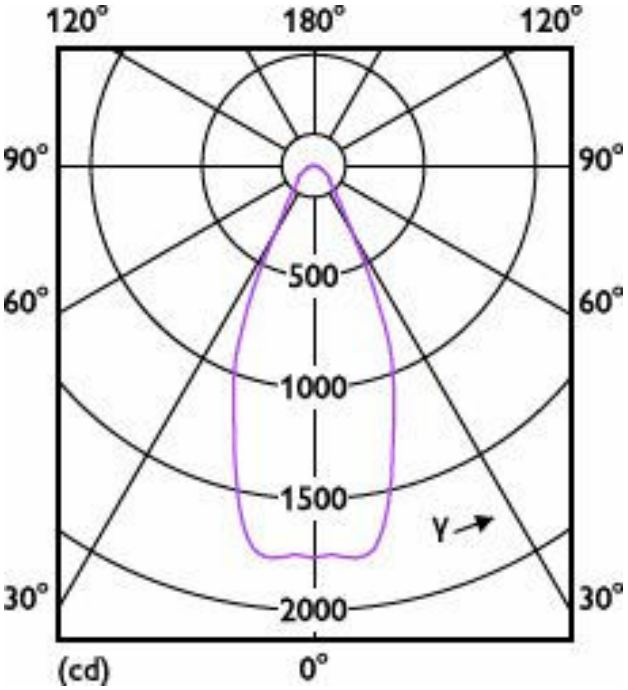
Order product name	MAS LEDExpertColor 20-100W 940 AR111 45D
Full product name	MAS LEDExpertColor 20-100W 940 AR111 45D
Full product code	871951442975800
Order code	929003479102
Material Nr. (12NC)	929003479102
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8719514429758
Numerator - Packs per outer box	6
EAN/UPC - Case	8719514429765

Dimensional drawing

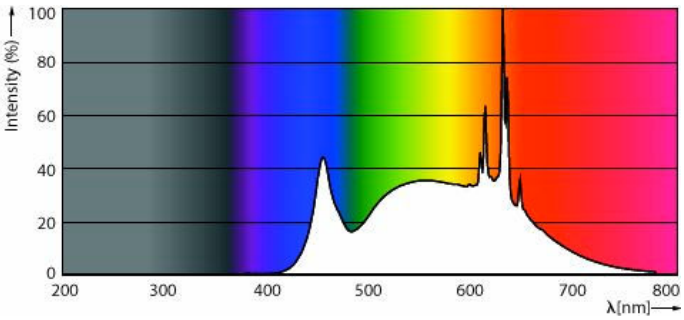


Product	D	C
MAS LEDExpertColor 20-100W 940 AR111 45D	111 mm	62 mm

Photometric data

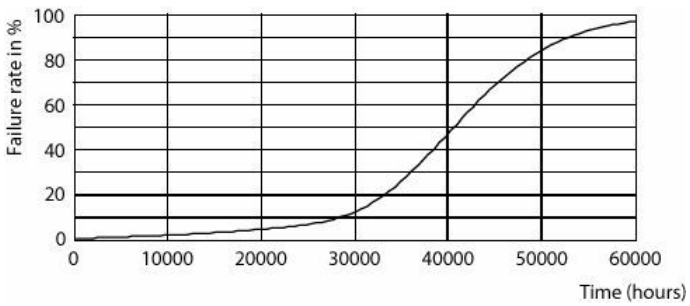


Light Distribution Diagram - MAS LEDExpertColor 20-100W 940 AR111 45D

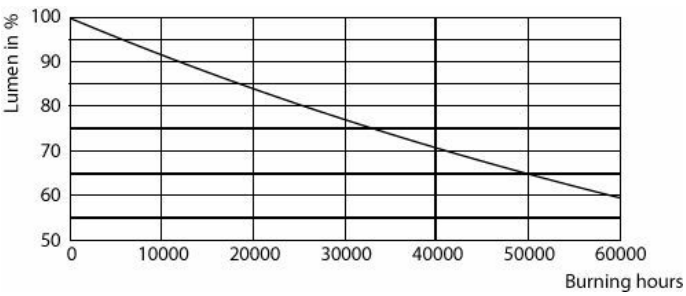


Spectral Power Distribution Colour - MAS LEDExpertColor 20-100W 940 AR111 45D

Lifetime



Life Expectancy Diagram



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

Related Documents

Documents and certificates	Document Name	Download
Environmental Product Declaration	Philips-MASTER-LEDspot-ExpertColor-AR111-COMF-8669553-Ref-929003478902-EPD.pdf	Download

Photometry and lighting design	Document Name	Download
IES File	LEDspots_EU2_20W_AR111_G53_940_45D-IES.IES	Download

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