# **PHILIPS** Lighting



# Create a warm, welcoming ambience with superior quality lighting

# MASTER LEDspot ExpertColor AR111

MASTER LEDspot LV ExpertColor creates a warm and comfortable ambience for hospitality venues, homes and restaurants. It creates such an ambience with superior lighting that has a customized spectrum, high CRI, and deep dimming feature. The result? A beautiful lighting experience. What's more, the innovative, trimless lens design will 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 MV and LEDspot Par lamps.

# Benefits

- $\cdot$  Create warm and comfortable ambience
- Hassle-free retrofit solution for greater energy efficiency and sustainability
- $\boldsymbol{\cdot}$  Interior decor, furnishings and fabrics look great

# Features

- Customized color spectrum replicates halogen light color
- Trimless design with beautiful V-groove lens
- $\cdot$  Best-in-class color realization CRI97, R9<gt/>85
- $\boldsymbol{\cdot}$  Deep and smooth dimming with broad transformer compatibility
- $\cdot$  Retrofitable with G53 luminaires

# Application

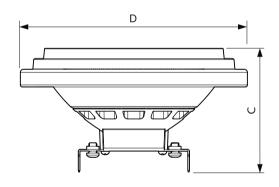
- Hospitality: hotel guest room, corridors, lobby, reception area, restaurants, bars, cafes
- $\boldsymbol{\cdot}$  Home: living room, bedrooms, hall way
- Retail: exhibitions, display cabinets, shops, dressing rooms

#### Versions



#### LEDspots EU2 AR111 G53

# Dimensional drawing



Product	D	с
MAS LEDExpertColor 20-100W 927 AR111 24D	111 mm	62 mm
MAS LEDExpertColor 20-100W 927 AR111 45D	111 mm	62 mm
MAS LEDExpertColor 20-100W 930 AR111 15D	111 mm	62 mm
MAS LEDExpertColor 20-100W 930 AR111 24D	111 mm	62 mm
MAS LEDExpertColor 20-100W 930 AR111 45D	111 mm	62 mm
MAS LEDExpertColor 20-100W 940 AR111 24D	111 mm	62 mm
MAS LEDExpertColor 20-100W 940 AR111 45D	111 mm	62 mm

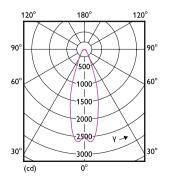
General InformationCap-BaseG53Switching Cycle50,000Nominal lifetime40,000 hour(s)Light Technical		
Switching Cycle50,000Nominal lifetime40,000 hour(s)Light Technical	General Information	
Nominal lifetime40,000 hour(s)Light TechnicalColor rendering index (CRI)97LLMF At End Of Nominal Lifetime70 %(Nom)70 %Operating and ElectricalInput Frequency50 to 60 HzPower Consumption20 WStarting Time (Nom)0.5 sWattage Equivalent100 WTemperature77 °CT-Case Maximum (Nom)77 °CControls and DimmingOnly with specific dimmersMechanical and HousingElear	Cap-Base	G53
Light Technical         Color rendering index (CRI)       97         LLMF At End Of Nominal Lifetime       70 %         (Nom)       70 %         Operating and Electrical       70 %         Input Frequency       50 to 60 Hz         Power Consumption       20 W         Starting Time (Nom)       0.5 s         Wattage Equivalent       100 W         Temperature       77 °C         Controls and Dimming       77 °C         Dimmable       Only with specific dimmers         Mechanical and Housing       Elear	Switching Cycle	50,000
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Color rendering index (CRI)97LLMF At End Of Nominal Lifetime (Nom)70 %ILMF At End Of Nominal Lifetime (Nom)70 %Operating and Electrical		
LLMF At End Of Nominal Lifetime (Nom)70 % (Nom)Operating and ElectricalInput Frequency50 to 60 HzInput Frequency50 to 60 HzPower Consumption20 WStarting Time (Nom)0.5 sWattage Equivalent100 WTemperature T-Case Maximum (Nom)77 °CControls and Dimming DimmableOnly with specific dimmersMechanical and Housing Bulb FinishClear	Light Technical	
(Nom)  Operating and Electrical  Input Frequency 50 to 60 Hz Line Frequency 50 to 60 Hz Power Consumption 20 W Starting Time (Nom) 0.5 s Wattage Equivalent 100 W  Temperature T-Case Maximum (Nom) 77 °C  Controls and Dimming Dimmable Only with specific dimmers  Mechanical and Housing Bulb Finish Clear	Color rendering index (CRI)	97
Operating and Electrical         Input Frequency       50 to 60 Hz         Line Frequency       50 to 60 Hz         Power Consumption       20 W         Starting Time (Nom)       0.5 s         Wattage Equivalent       100 W         Temperature       77 °C         Controls and Dimming       Only with specific dimmers         Dimmable       Only with specific dimmers         Mechanical and Housing       Elear	LLMF At End Of Nominal Lifetime	70 %
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Line Frequency     50 to 60 Hz       Power Consumption     20 W       Starting Time (Nom)     0.5 s       Wattage Equivalent     100 W       Temperature	Operating and Electrical	
Power Consumption     20 W       Starting Time (Nom)     0.5 s       Wattage Equivalent     100 W       Temperature     T       T-Case Maximum (Nom)     77 °C       Controls and Dimming     Only with specific dimmers       Dimmable     Only with specific dimmers       Mechanical and Housing     Elar	Input Frequency	50 to 60 Hz
Starting Time (Nom) 0.5 s Wattage Equivalent 100 W Temperature T-Case Maximum (Nom) 77 °C Controls and Dimming Dimmable Only with specific dimmers Mechanical and Housing Bulb Finish Clear	Line Frequency	50 to 60 Hz
Wattage Equivalent     100 W       Temperature     100 W       T-Case Maximum (Nom)     77 °C       Controls and Dimming     0nly with specific dimmers       Dimmable     0nly with specific dimmers       Mechanical and Housing     University       Bulb Finish     Clear	Power Consumption	20 W
Temperature       T-Case Maximum (Nom)       77 °C       Controls and Dimming       Dimmable       Only with specific dimmers       Mechanical and Housing       Bulb Finish     Clear	Starting Time (Nom)	0.5 s
T-Case Maximum (Nom)     77 °C       Controls and Dimming        Dimmable     Only with specific dimmers       Mechanical and Housing        Bulb Finish     Clear	Wattage Equivalent	100 W
T-Case Maximum (Nom) 77 °C Controls and Dimming Dimmable Only with specific dimmers Mechanical and Housing Bulb Finish Clear		
Controls and Dimming       Dimmable     Only with specific dimmers       Mechanical and Housing       Bulb Finish     Clear	Temperature	
Dimmable Only with specific dimmers  Mechanical and Housing Bulb Finish Clear	T-Case Maximum (Nom)	77 °C
Dimmable Only with specific dimmers  Mechanical and Housing Bulb Finish Clear		
Mechanical and Housing Bulb Finish Clear	Controls and Dimming	
Mechanical and Housing Bulb Finish Clear	Dimmable	Only with specific
Bulb Finish Clear		dimmers
Bulb Finish Clear		
	Mechanical and Housing	
Bulb Shape AR111	Bulb Finish	Clear
	Bulb Shape	AR111
Approval and Application	Approval and Application	
Ambient temperature range -20 °C to 45 °C		

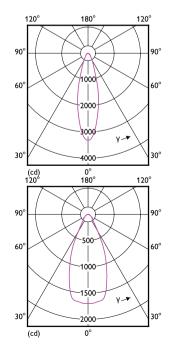
# Light Technical (1/2)

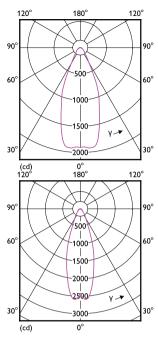
			Correlated Color		
		Beam Angle	Temperature	Color	
Order Code	Full Product Name	(Nom)	(Nom)	Code	Luminous Flux
929003478608	MAS LEDExpertColor	24 degree(s)	2700 K	927	1,500 lm
	20-100W 927 AR111 24D				
929003478708	MAS LEDExpertColor	24 degree(s)	3000 K	930	1,600 lm
	20-100W 930 AR111 24D				
929003478808	MAS LEDExpertColor	24 degree(s)	4000 K	940	1,700 lm
	20-100W 940 AR111 24D				
929003478908	MAS LEDExpertColor	45 degree(s)	2700 K	927	1,500 lm
	20-100W 927 AR111 45D				
929003479008	MAS LEDExpertColor	45 degree(s)	3000 K	930	1,600 lm
	20-100W 930 AR111 45D				
929003479108	MAS LEDExpertColor	45 degree(s)	4000 K	940	1,700 lm
	20-100W 940 AR111 45D				
929003478408	MAS LEDExpertColor	15 degree(s)	3000 K	930	1,600 lm
	20-100W 930 AR111 15D				

# Light Technical (2/2)

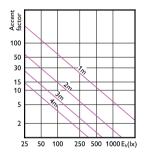
	Luminous Intensity	
Order Code	Full Product Name	(Nom)
929003478608	MAS LEDExpertColor 20-100W 927 AR111 24D	4,000 cd
929003478708	MAS LEDExpertColor 20-100W 930 AR111 24D	4,200 cd
929003478808	MAS LEDExpertColor 20-100W 940 AR111 24D	4,400 cd
929003478908	MAS LEDExpertColor 20-100W 927 AR111 45D	2,100 cd
929003479008	MAS LEDExpertColor 20-100W 930 AR111 45D	2,200 cd
929003479108	MAS LEDExpertColor 20-100W 940 AR111 45D	2,300 cd
929003478408	MAS LEDExpertColor 20-100W 930 AR111 15D	8,500 cd



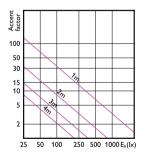




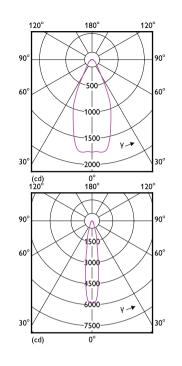
Accent Diagrams

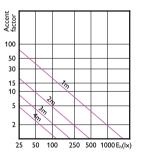


Accent Diagram - MAS LEDExpertColor 20-100W 930 AR111 15D

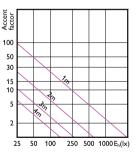


Accent Diagram - MAS LEDExpertColor 20-100W 940 AR111 24D

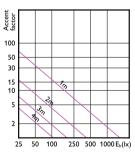




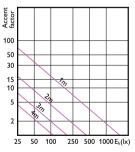
Accent Diagram - MAS LEDExpertColor 20-100W 930 AR111 45D



Accent Diagram - MAS LEDExpertColor 20-100W 927 AR111 24D

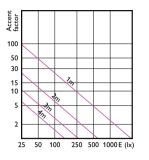


Accent Diagram - MAS LEDExpertColor 20-100W 927 AR111 45D



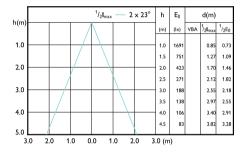
Accent Diagram - MAS LEDExpertColor 20-100W 940 AR111 45D

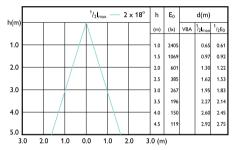
#### Accent Diagrams

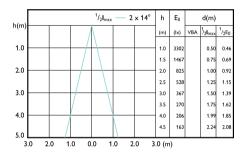


Accent Diagram - MAS LEDExpertColor 20-100W 930 AR111 24D

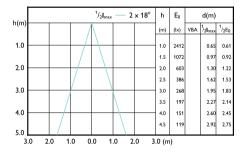
#### **Beam Diagrams**



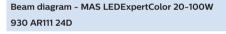


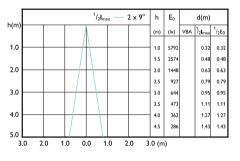


Beam diagram - MAS LEDExpertColor 20-100W 927 AR111 45D



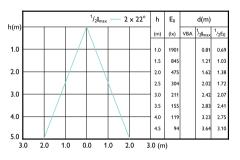
Beam diagram - MAS LEDExpertColor 20-100W 927 AR111 24D





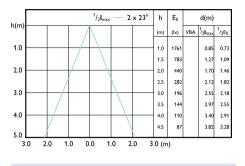


Beam diagram - MAS LEDExpertColor 20-100W 940 AR111 24D



Beam diagram - MAS LEDExpertColor 20-100W 930 AR111 45D

# **Beam Diagrams**



Beam diagram - MAS LEDExpertColor 20-100W 940 AR111 45D



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