# **PHILIPS** Lighting



## MASTER LEDspot LV AR111 - Ideal solution for spot lighting in shops

### **MASTER LEDspot LV AR111**

Delivering a warm, halogen-like accent beam, MASTER LEDspot LV AR111 is an ideal retrofit solution for spot and general lighting applications in the hospitality and retail industry. It is particularly suitable for general lighting where the light is on all the time, such as creative accent lighting applications in shops, restaurants, hotels, and especially for galleries, exhibitions and museums. The robustly designed MASTER LEDspot LV AR111 offers various beam angles for a clearly defined beam spread. There is no UV or IR in the beam, making it suitable for illuminating heat-sensitive objects (food, organic materials, paintings, etc.). The patented intelligent driver enables broad compatibility with existing electromagnetic and electronic halogen transformers. MASTER LEDspot LV AR111 delivers huge energy savings and minimizes maintenance cost without any reduction in brightness.

#### Benefits

- $\cdot$  Up to 80% energy saving compared with halogen lamps
- Broad compatibility with transformers
- Retrofittable

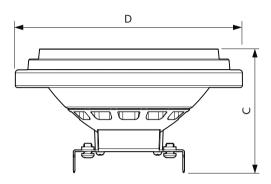
#### Features

- Patented intelligent driver
- Lifetime of 45,000 hours
- Low energy consumption
- Clearly defined beam spread
- $\cdot$  UV- and IR-free light for less heat and protection for heat-sensitive objects

#### Application

- Shops, hotels, restaurants, bars, cafés
- Gallieres, museums, exhibitions, lobbies, corridors, stairwells, washrooms, reception areas

#### **Dimensional drawing**



General Information	
Cap-Base	G53
Switching Cycle	50,000
Nominal lifetime	40,000 hour(s)
Light Technical	
Color rendering index (CRI)	97
LLMF At End Of Nominal Lifetime	70 %
(Nom)	
Operating and Electrical	
Input Frequency	– Hz
Line Frequency	– Hz
Starting Time (Nom)	0.5 s
Controls and Dimming	
Dimmable	Yes
Mechanical and Housing	
Bulb Shape	AR111

#### Product D с MAS LED ExpertColor 11-50W 927 AR111 40D 111 mm 62 mm MAS LED ExpertColor 15-75W 927 AR111 24D 111 mm 62 mm MAS LED ExpertColor 15-75W 927 AR111 40D 111 mm 62 mm MAS LED ExpertColor 15-75W 930 AR111 24D 111 mm 62 mm MAS LED ExpertColor 15-75W 930 AR111 40D 111 mm 62 mm

#### Light Technical (1/2)

Order Code  Full Product Name  (Nom)  Temperature (Nom)  Code  Luminous    69087800  MAS LED ExpertColor 11-50W  40 degree(s)  2700 K  927  650 lm    927 AR111 40D			Beam Angle	Correlated Color	Color	
927 AR111 40D  24 degree(s)  2700 K  927  950 lm	Order Code	Full Product Name	(Nom)	Temperature (Nom)	Code	Luminous Flux
69091500 MAS LED ExpertColor 15-75W 24 degree(s) 2700 K 927 950 lm	69087800		40 degree(s)	2700 K	927	650 lm
		927 AR111 40D				
927 AR111 24D	69091500	MAS LED ExpertColor 15-75W	24 degree(s)	2700 K	927	950 lm
		927 AR111 24D				
69093900  MAS LED ExpertColor 15-75W  24 degree(s)  3000 K  930  1,000 lm	69093900	MAS LED ExpertColor 15-75W	24 degree(s)	3000 K	930	1,000 lm
930 AR111 24D		930 AR111 24D				
69095300  MAS LED ExpertColor 15-75W  40 degree(s)  2700 K  927  950 lm	69095300	MAS LED ExpertColor 15-75W	40 degree(s)	2700 K	927	950 lm
927 AR111 40D		927 AR111 40D				
69097700  MAS LED ExpertColor 15-75W  40 degree(s)  3000 K  930  1,000 lm	69097700	MAS LED ExpertColor 15-75W	40 degree(s)	3000 K	930	1,000 lm
930 AR111 40D		930 AR111 40D				

#### Light Technical (2/2)

Order Cod	e Full Product Name	Luminous Intensity (Nom)	Order Code	Full Product Name	Luminous Intensity (Nom)
69087800	MAS LED ExpertColor 11-50W 927 AR111 40D	1,300 cd	69095300	MAS LED ExpertColor 15-75W 927 AR111 40D	1,400 cd
69091500	MAS LED ExpertColor 15-75W 927 AR111 24D	3,500 cd	69097700	MAS LED ExpertColor 15-75W 930 AR111 40D	1,400 cd
69093900	MAS LED ExpertColor 15-75W 930 AR111 24D	3,500 cd			

#### **Operating and Electrical**

		Power	Wattage
Order Code	Full Product Name	Consumption	Equivalent
69087800	MAS LED ExpertColor 11-50W 927	11 W	50 W
	AR111 40D		
69091500	MAS LED ExpertColor 15-75W 927	15 W	75 W
	AR111 24D		
69093900	MAS LED ExpertColor 15-75W	15 W	75 W
	930 AR111 24D		

		Power	Wattage
Order Code	Full Product Name	Consumption	Equivalent
69095300	MAS LED ExpertColor 15-75W 927	15 W	75 W
	AR111 40D		
69097700	MAS LED ExpertColor 15-75W	15 W	75 W
	930 AR111 40D		

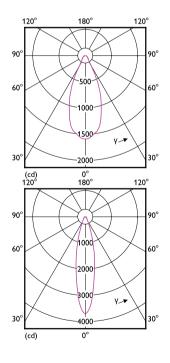
#### Temperature

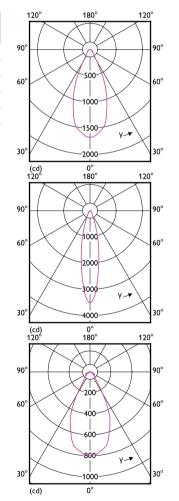
Order Code	Full Product Name	T-Case Maximum (Nom)
69087800	MAS LED ExpertColor 11-50W 927 AR111 40D	70 °C
69091500	MAS LED ExpertColor 15-75W 927 AR111 24D	74 °C
69093900	MAS LED ExpertColor 15-75W 930 AR111 24D	74 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
69095300	MAS LED ExpertColor 15-75W 927 AR111 40D	74 °C
69097700	MAS LED ExpertColor 15-75W 930 AR111 40D	74 °C

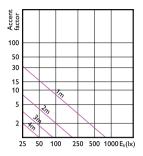
#### Approval and Application

		Energy Consumption kWh/
Order Code	Full Product Name	1000 h
69087800	MAS LED ExpertColor 11-50W 927 AR111 40D	13 kWh
69091500	MAS LED ExpertColor 15-75W 927 AR111 24D	17 kWh
69093900	MAS LED ExpertColor 15-75W 930 AR111 24D	17 kWh
69095300	MAS LED ExpertColor 15-75W 927 AR111 40D	17 kWh
69097700	MAS LED ExpertColor 15-75W 930 AR111 40D	17 kWh



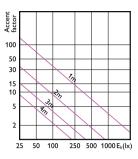


#### Accent Diagrams

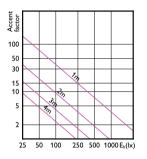


927 AR111 40D

Accent Diagram - MAS LED ExpertColor 15-75W 927 AR111 40D



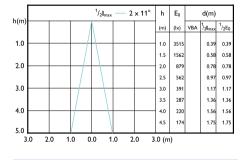
Accent Diagram - MAS LED ExpertColor 15-75W 927 AR111 24D



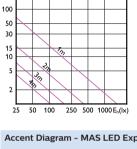
Accent Diagram - MAS LED ExpertColor 15-75W 930 AR111 24D

Accent Diagram - MAS LED ExpertColor 11-50W

#### **Beam Diagrams**

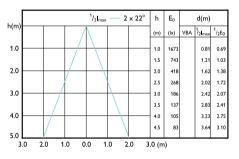


Beam diagram - MAS LED ExpertColor 15-75W 927 AR111 24D



Accent factor

Accent Diagram - MAS LED ExpertColor 15-75W 930 AR111 40D

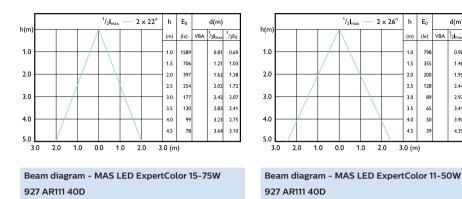


Beam diagram - MAS LED ExpertColor 15-75W 930 AR111 40D

h ()				$^{1}/_{2}I_{max}$	— 2	x 11°	h	E <sub>0</sub>		d(m)	
h(m)							(m)	(lx)	VBA	1 /21 <sub>max</sub>	$^{1}/_{2}E_{0}$
1.0							1.0	3700		0.39	
							1.5	1645		0.58	0.58
2.0				$\vdash$			2.0	925		0.78	0.78
							2.5	592		0.97	0.97
3.0							3.0	411		1.17	1.17
							3.5	302		1.36	1.36
4.0				$\vdash$			4.0	231		1.56	1.56
5.0							4.5	183		1.75	1.75
3.	.0 2	.0 1	.0 0	.0 1	.0 2	.0 3	.0 (m	ı) —			

Beam diagram - MAS LED ExpertColor 15-75W 930 AR111 24D

#### **Beam Diagrams**



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E<sub>0</sub>

(lx)

798

355

200 128

89

65

50

39

VBA

d(m)

0.98 0.85

1.46 1.95 2.44 2.93 1.27

4.39 3.82

1.70

2.12

2.55 3.41 3.90

2.97

3.40

1/2E0

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