PHILIPS Lighting



Create an inviting atmosphere for retail and hospitality with new perfect-fit

LED AR111

With an elegant new design, Philips MasterClass LED AR111 creates a brilliant visual effect. With excellent rendering of 90+ CRI and R9>50, colors stay vibrant and natural, enhancing the appeal of everything on display.

Benefits

- High intensity of beam for accent lighting with strong lumen maintenance
- $\boldsymbol{\cdot}$ More vivid, vibrant colors over time for merchandise display with no harmful UV
- Innovative design with hassle free retrofit solution

Features

- \cdot Superior design with Red Dot award of "innovative product design"
- High intensity of beam equivalent to halogen AR111 50W, 75W, 100W
- Better color realization with high CRI value, while colors remain vibrant and natural
- High lumen and color maintenance with long lifetime of 25,000 hours to 40,000 hours
- Retrofitable with G53 luminaires, Title 20 & Title 24 JA8 compliant

Application

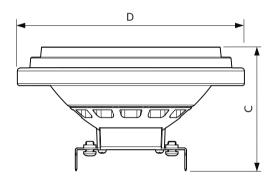
- \cdot Retail shops and showrooms
- \cdot Hospitality
- Galleries

Versions



LEDclassic 5-50W MR16 830 60D

Dimensional drawing



General Information	
Cap-Base	G53
Switching Cycle	50,000
Light Technical	
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 Finish	Clear
Bulb Shape	AR111
Approval and Application	
Energy Consumption kWh/1000 h	- kWh

Light Technical (1/2)

Product	D	с
12AR111/LED/927/S8/DIM/EC 12V 6/1FB	111 mm	62 mm
12AR111/LED/930/S8/DIM/EC 12V 6/1FB	111 mm	62 mm
16AR111/LED/927/F25/DIM/EC 12V FB 6/1	111 mm	62 mm
20AR111/LED/927/F25 DIM 12V 6/1FB	111 mm	62 mm
20AR111/LED/930/F15 DIM 12V 6/1FB	111 mm	62 mm
20AR111/LED/930/F25 DIM 12V 6/1FB	111 mm	62 mm

General Information

Order Code	Full Product Name	Nominal lifetime
929002238404	12AR111/LED/927/S8/DIM/EC 12V 6/1FB	40,000 hour(s)
929002238504	12AR111/LED/930/S8/DIM/EC 12V 6/1FB	40,000 hour(s)
929002239604	20AR111/LED/930/F15 DIM 12V 6/1FB	25,000 hour(s)
929002239004	16AR111/LED/927/F25/DIM/EC 12V FB 6/1	40,000 hour(s)
929002239804	20AR111/LED/927/F25 DIM 12V 6/1FB	25,000 hour(s)
929002239904	20AR111/LED/930/F25 DIM 12V 6/1FB	25,000 hour(s)

			Correlated						Correlated		
		Beam	Color	Color				Beam	Color	Color	
	Full Product	Angle	Temperature	rendering	Color		Full Product	Angle	Temperature	rendering	Color
Order Code	Name	(Nom)	(Nom)	index (CRI)	Code	Order Code	Name	(Nom)	(Nom)	index (CRI)	Code
929002238404	12AR111/LED/927/	8 degree(s)	2700 K	97	927	929002239004	16AR111/LED/927/	25	2700 K	97	927
	S8/DIM/EC 12V						F25/DIM/EC 12V	degree(s)			
	6/1FB						FB 6/1				
929002238504	12AR111/LED/930	8 degree(s)	3000 K	97	930	929002239804	20AR111/LED/927	25	2700 K	91	927
	/S8/DIM/EC 12V						/F25 DIM 12V	degree(s)			
	6/1FB						6/1FB				
929002239604	20AR111/LED/930	15 degree(s)	3000 K	91	930	929002239904	20AR111/LED/930	25	3000 K	91	930
	/F15 DIM 12V						/F25 DIM 12V	degree(s)			
	6/1FB						6/1FB				

Light Technical (2/2)

			Luminous
Order Code	Full Product Name	Luminous Flux	Intensity (Nom)
929002238404	12AR111/LED/927/S8/DIM/EC 12V 6/1FB	650 lm	8,000 cd
929002238504	12AR111/LED/930/S8/DIM/EC 12V 6/1FB	680 lm	8,000 cd
929002239604	20AR111/LED/930/F15 DIM 12V 6/1FB	1,200 lm	8,000 cd

			Luminous
Order Code	Full Product Name	Luminous Flux	Intensity (Nom)
929002239004	16AR111/LED/927/F25/DIM/EC 12V	900 lm	3,500 cd
	FB 6/1		
929002239804	20AR111/LED/927/F25 DIM 12V	1,150 lm	4,000 cd
	6/1FB		
929002239904	20AR111/LED/930/F25 DIM 12V	1,200 lm	4,000 cd
	6/1FB		

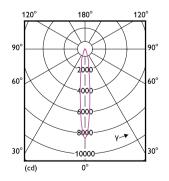
Operating and Electrical

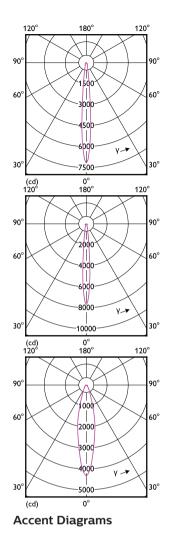
		Power	Wattage
Order Code	Full Product Name	Consumption	Equivalent
929002238404	12AR111/LED/927/S8/DIM/EC	12 W	50 W
	12V 6/1FB		
929002238504	12AR111/LED/930/S8/DIM/EC	12 W	50 W
	12V 6/1FB		
929002239604	20AR111/LED/930/F15 DIM 12V	20 W	100 W
	6/1FB		

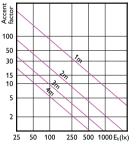
	Power	Wattage
Full Product Name	Consumption	Equivalent
16AR111/LED/927/F25/DIM/EC	16 W	75 W
12V FB 6/1		
20AR111/LED/927/F25 DIM 12V	20 W	100 W
6/1FB		
20AR111/LED/930/F25 DIM	20 W	100 W
12V 6/1FB		
	16AR111/LED/927/F25/DIM/EC 12V FB 6/1 20AR111/LED/927/F25 DIM 12V 6/1FB 20AR111/LED/930/F25 DIM	Full Product Name Consumption 16AR111/LED/927/F25/DIM/EC 16 W 12V FB 6/1 20 W 20AR111/LED/927/F25 DIM 12V 20 W 6/1FB 20 W

Temperature

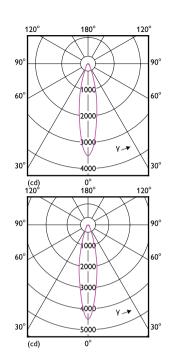
Order Code	Full Product Name	T-Case Maximum (Nom)
929002238404	12AR111/LED/927/S8/DIM/EC 12V 6/1FB	70 °C
929002238504	12AR111/LED/930/S8/DIM/EC 12V 6/1FB	70 °C
929002239604	20AR111/LED/930/F15 DIM 12V 6/1FB	80 ℃
929002239004	16AR111/LED/927/F25/DIM/EC 12V FB 6/1	74 °C
929002239804	20AR111/LED/927/F25 DIM 12V 6/1FB	80 °C
929002239904	20AR111/LED/930/F25 DIM 12V 6/1FB	80 ℃

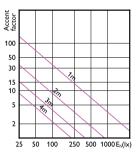




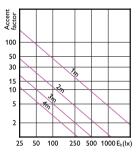


Accent Diagram - 20AR111/LED/930/F15 DIM 12V 6/1FB



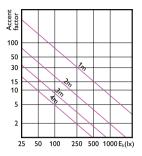


Accent Diagram -16AR111/LED/927/F25/DIM/EC 12V FB 6/1

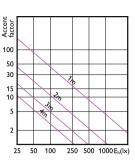


Accent Diagram - 20AR111/LED/930/F25 DIM 12V 6/1FB

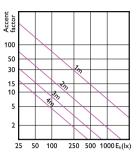
Accent Diagrams



Accent Diagram - 12AR111/LED/930/S8/DIM/EC 12V 6/1FB

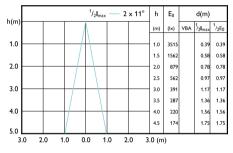


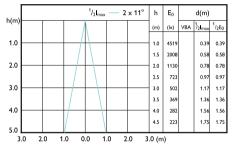
Accent Diagram - 20AR111/LED/927/F25 DIM 12V 6/1FB

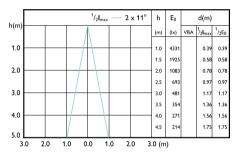


Accent Diagram - 12AR111/LED/927/S8/DIM/EC 12V 6/1FB

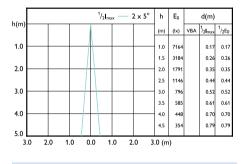
Beam Diagrams





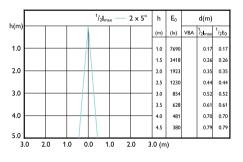


12V FB 6/1



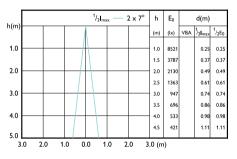
Beam diagram - 12AR111/LED/927/S8/DIM/EC 12V 6/1FB





Beam diagram - 12AR111/LED/930/S8/DIM/EC 12V 6/1FB

Beam diagram - 20AR111/LED/927/F25 DIM 12V 6/1FB



Beam diagram - 20AR111/LED/930/F15 DIM 12V 6/1FB

Beam diagram - 16AR111/LED/927/F25/DIM/EC

5



© 2023 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. All trademarks are owned by Signify Holding or their respective owners.

www.lighting.philips.com 2023, November 28 - data subject to change