



Highly energy-efficient spot of crisp white light

MASTERLine ES

Low-voltage halogen burner with very high energy efficiency and long lifetime thanks to IRR coating in glass reflector. Ideal solution for small decorative luminaires, putting your objects in the spotlight. Dichroic coating prevents heat transmission onto the object.

Benefits

- Bright, sparkling halogen light to put your objects in the spotlight
- Fully dimmable, from 0 to 100%, to meet different brightness requirements
- Lowest replacement cost due to extra long lifetime

Features

- Superior quality of light with excellent color rendering (Ra=100)
- Dichroic coating
- Lifetime: 5000 hours
- Universal burning position
- Instant start

Application

- Spot accent lighting to create the right ambiance in hotels, restaurants and shops

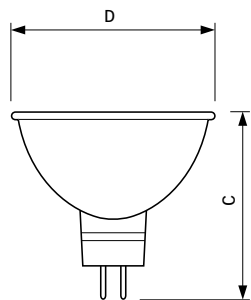
MASTERLine ES

Versions



GU5.3, MR16

Dimensional drawing



Product	D (max)	C1 (max)
MASTERLine ES 35W GU5.3 12V 24D 1CT/4X5F	51 mm	50.5 mm
MASTERLine ES 35W GU5.3 12V 60D 1CT/4X5F	51 mm	50.5 mm
MASTERLine ES 30W GU5.3 12V 36D 1CT/4X5F	51 mm	50.5 mm
MASTERLine ES 45W GU5.3 12V 36D 1CT/4X5F	51 mm	50.5 mm
MASTERLine ES 30W GU5.3 12V 24D 1CT/4X5F	51 mm	50.5 mm
MASTERLine ES 20W GU5.3 12V 36D 1CT/4X5F	51 mm	50.5 mm
MASTERLine ES 35W GU5.3 12V 36D 1CT/4X5F	51 mm	50.5 mm
MASTERLine ES 45W GU5.3 12V 60D 1CT/4X5F	51 mm	50.5 mm

MASTERLine ES

Approval and Application

Energy Efficiency Label (EEL) B

Controls and Dimming

Dimmable Yes

Operating and Electrical

Voltage (Nom) 12 V

Starting Time (Nom) 0.0 s

Warm Up Time To 60% Light (Nom) instant full light

General Information

Cap-Base GU5.3

Nominal Lifetime (Nom) 5000 h

Operating Position UNIVERSAL

Rated Lifetime (Hours) 5000 h

Switching Cycle 20000X

Light Technical

Correlated Color Temperature (Nom) 3000 K

Color Rendering Index (Nom) 100

Llmf At End Of Nominal Lifetime (Min) 80 %

Mechanical and Housing

Bulb Shape MR16

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
924895017101	MASTERLine ES 20W GU5.3 12V 36D 1CT/4X5F	21 kWh
924895217101	MASTERLine ES 30W GU5.3 12V 24D 1CT/4X5F	32 kWh
924895317101	MASTERLine ES 30W GU5.3 12V 36D 1CT/4X5F	32 kWh
924895617101	MASTERLine ES 35W GU5.3 12V 24D 1CT/4X5F	37 kWh
924895717101	MASTERLine ES 35W GU5.3 12V 36D 1CT/4X5F	37 kWh
924895817101	MASTERLine ES 35W GU5.3 12V 60D 1CT/4X5F	37 kWh
924896117101	MASTERLine ES 45W GU5.3 12V 36D 1CT/4X5F	48 kWh
924896217101	MASTERLine ES 45W GU5.3 12V 60D 1CT/4X5F	48 kWh

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Wattage Equivalent	Power (Rated) (Nom)
924895017101	MASTERLine ES 20W GU5.3 12V 36D 1CT/4X5F	2 A	35 W	20.0 W
924895217101	MASTERLine ES 30W GU5.3 12V 24D 1CT/4X5F	3 A	50 W	30.0 W
924895317101	MASTERLine ES 30W GU5.3 12V 36D 1CT/4X5F	3 A	50 W	30.0 W
924895617101	MASTERLine ES 35W GU5.3 12V 24D 1CT/4X5F	2.92 A	56 W	35.0 W

Order Code	Full Product Name	Lamp Current (Nom)	Wattage Equivalent	Power (Rated) (Nom)
924895717101	MASTERLine ES 35W GU5.3 12V 36D 1CT/4X5F	2.92 A	56 W	35.0 W
924895817101	MASTERLine ES 35W GU5.3 12V 60D 1CT/4X5F	2.92 A	56 W	35.0 W
924896117101	MASTERLine ES 45W GU5.3 12V 36D 1CT/4X5F	3.75 A	68 W	45.0 W
924896217101	MASTERLine ES 45W GU5.3 12V 60D 1CT/4X5F	3.75 A	68 W	45.0 W

General Information

Order Code	Full Product Name	Philips Code
924895017101	MASTERLine ES 20W GU5.3 12V 36D 1CT/4X5F	18133
924895217101	MASTERLine ES 30W GU5.3 12V 24D 1CT/4X5F	18135
924895317101	MASTERLine ES 30W GU5.3 12V 36D 1CT/4X5F	18136
924895617101	MASTERLine ES 35W GU5.3 12V 24D 1CT/4X5F	18139

Order Code	Full Product Name	Philips Code
924895717101	MASTERLine ES 35W GU5.3 12V 36D 1CT/4X5F	18140
924895817101	MASTERLine ES 35W GU5.3 12V 60D 1CT/4X5F	18141
924896117101	MASTERLine ES 45W GU5.3 12V 36D 1CT/4X5F	18144
924896217101	MASTERLine ES 45W GU5.3 12V 60D 1CT/4X5F	18145

Luminaire Design Requirements

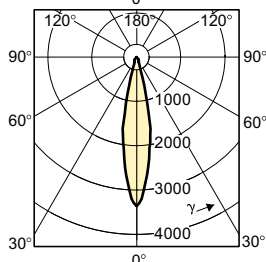
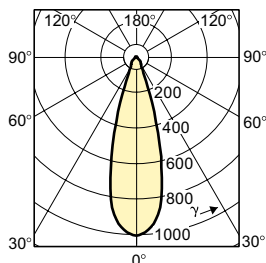
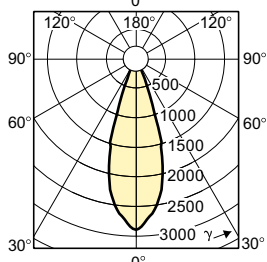
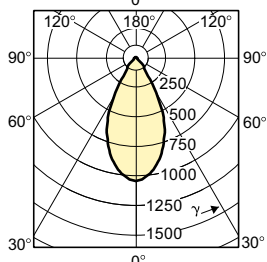
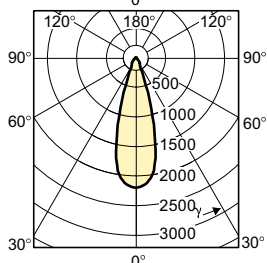
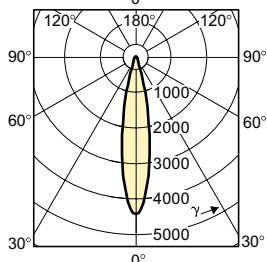
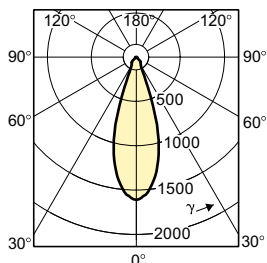
MASTERLine ES

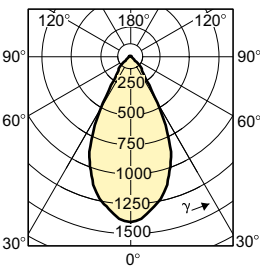
Order Code	Full Product Name	Bulb Temperature (Max)
924895017101	MASTERLine ES 20W GU5.3 12V 36D 1CT/4X5F	250 °C
924895217101	MASTERLine ES 30W GU5.3 12V 24D 1CT/4X5F	380 °C
924895317101	MASTERLine ES 30W GU5.3 12V 36D 1CT/4X5F	380 °C
924895617101	MASTERLine ES 35W GU5.3 12V 24D 1CT/4X5F	380 °C

Order Code	Full Product Name	Bulb Temperature (Max)
924895717101	MASTERLine ES 35W GU5.3 12V 36D 1CT/4X5F	380 °C
924895817101	MASTERLine ES 35W GU5.3 12V 60D 1CT/4X5F	380 °C
924896117101	MASTERLine ES 45W GU5.3 12V 36D 1CT/4X5F	410 °C
924896217101	MASTERLine ES 45W GU5.3 12V 60D 1CT/4X5F	410 °C

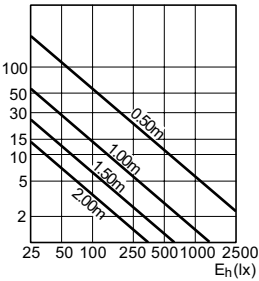
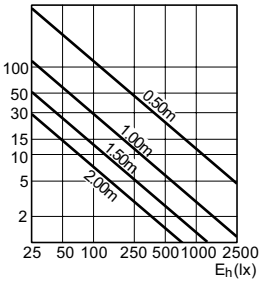
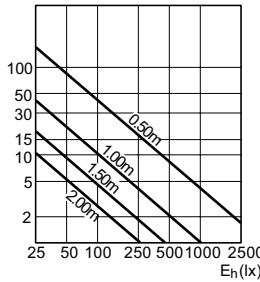
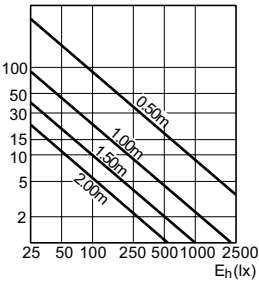
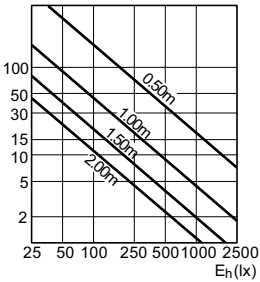
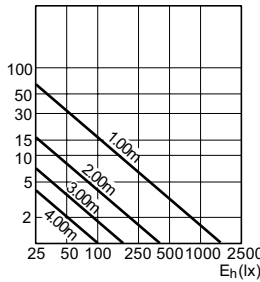
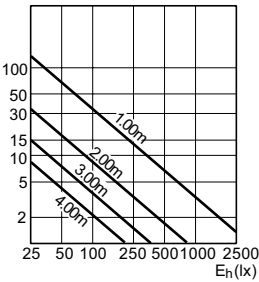
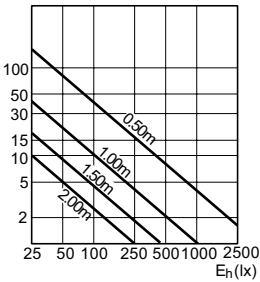
Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Luminous Flux (Rated) (Nom)	Luminous Intensity (Max)	Rated Beam Angle
924895017101	MASTERLine ES 20W GU5.3 12V 36D 1CT/4X5F	36 °	300 lm	1000 cd	36 °
924895217101	MASTERLine ES 30W GU5.3 12V 24D 1CT/4X5F	24 °	540 lm	3150 cd	24 °
924895317101	MASTERLine ES 30W GU5.3 12V 36D 1CT/4X5F	36 °	540 lm	1600 cd	36 °
924895617101	MASTERLine ES 35W GU5.3 12V 24D 1CT/4X5F	24 °	640 lm	4100 cd	24 °
924895717101	MASTERLine ES 35W GU5.3 12V 36D 1CT/4X5F	36 °	640 lm	2200 cd	36 °
924895817101	MASTERLine ES 35W GU5.3 12V 60D 1CT/4X5F	60 °	640 lm	1050 cd	60 °
924896117101	MASTERLine ES 45W GU5.3 12V 36D 1CT/4X5F	36 °	830 lm	2850 cd	36 °
924896217101	MASTERLine ES 45W GU5.3 12V 60D 1CT/4X5F	60 °	830 lm	1300 cd	60 °

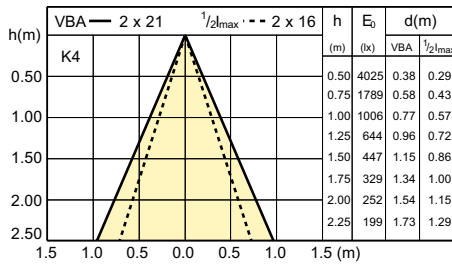




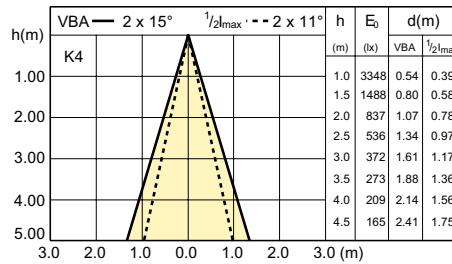
Accent Diagrams



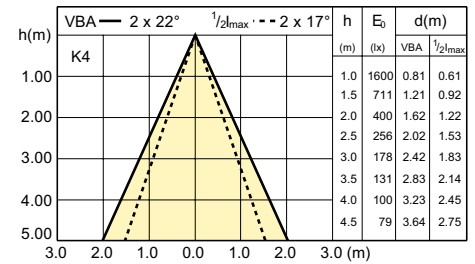
Beam Diagrams



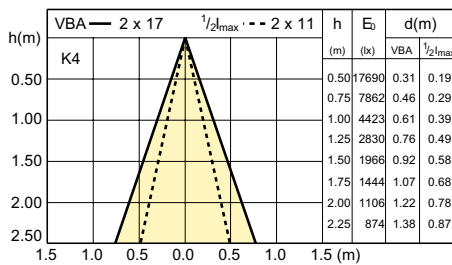
LDBE_HMLES_20W_36D-Beam diagram



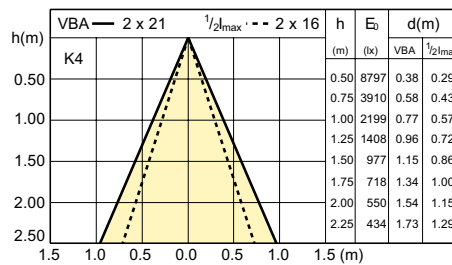
LDBE_HMLES_30W_24D-Beam diagram



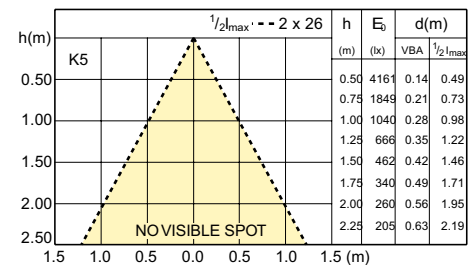
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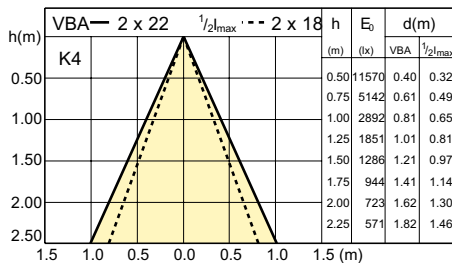
LDBE_HMLES_35W_24D-Beam diagram



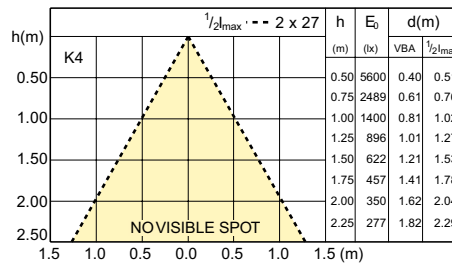
LDBE_HMLES_35W_36D-Beam diagram



LDBE_HMLES_35W_60D-Beam diagram



LDBE_HMLES_45W_36D-Beam diagram



LDBE_HMLES_45W_60D-Beam diagram

