

MASTERCcolour CDM

MASTERCcolour CDM-R111



CDM-R111

Product Description

- The MASTERCcolour CDM-R111 combines the trendy look of 111mm aluminium reflector halogen lamps with the long life, high energy efficiency and crisp white light of MASTERCcolour CDM

Product Features

- High lamp efficacy
- Long lamp life time compared to incandescent and halogen lamps
- The ceramic discharge tube is optimally positioned in the reflector
- Twist & Lock system
- UV-Block burner capsule
- Anti-glare cap design

Product Benefits

- Low operating costs
- Easy installation
- Relatively low heat output
- Less glare, comfort for shoppers and staff
- Reduced fading risks

Application

- Accent and decorative lighting: display lighting with sparkling, theatrical effects, even in surroundings with very high background ambient light levels like shops windows
- General lighting: in downlighters, a warm, comfortable atmosphere can be created

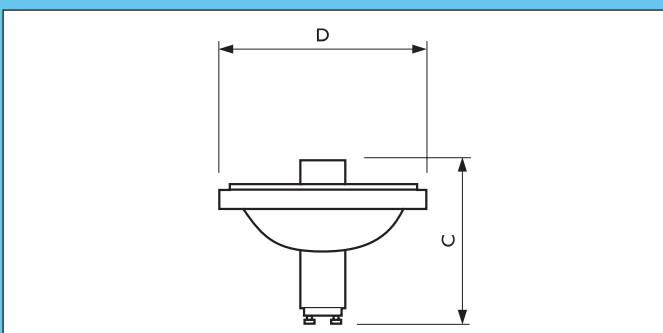
Luminaires

- Standard 111mm reflector design increases flexibility in application and allows CDM-R111 to be easily fixed into the many existing 111 luminaires
- Simplified luminaire design because CDM-R111 lamps can be used in open luminaires
- GX8.5 lamp connector used must be suitable for ignition peaks up to 5kV

System

- Must be used in combination with a ballast and ignitor or electronic gear
- If there is a constant voltage deviation of more than 3% of the rated voltage, a different ballast rating/tap must be used
- A high-current protection device (thermo-switch) in the gear is mandatory (IEC 61167)
- Electronic gear can be used and increases lamp-life, improves system efficacy and eliminates visible flicker
- 70W models can achieved optimal performance only with electronic ballast

Dimensions in mm



Product ID	Overall length	Diameter
	C max.	D max.
20W	95	111
35W	95	111
70W	95	111

Preferred selection

Product ID	Lamp Wattage EL (W)	Lamp Current EL (A)	System Power EL (W)	Lamp Voltage (V)	Mains Voltage Stable Operation min. (V)	Cap/ Base	Color Temperature (k)
MASTERCcolour CDM-R111 35W/830 10D	38	0.53	44	88	198	GX8.5	3000
MASTERCcolour CDM-R111 35W/830 24D	38	0.53	44	88	198	GX8.5	3000
MASTERCcolour CDM-R111 35W/830 40D	38	0.53	44	88	198	GX8.5	3000
MASTERCcolour CDM-R111 70W/830 10D*	73	0.88	83	83	198	GX8.5	3000
MASTERCcolour CDM-R111 70W/830 24D*	73	0.88	83	83	198	GX8.5	3000
MASTERCcolour CDM-R111 70W/830 40D*	73	0.88	83	83	198	GX8.5	3000
MASTERCcolour CDM-R111 20W/830 10D*	22	0.22	24	101	198	GX8.5	3000

Product ID	Color Rendering Index (R _a)	Chromaticity Coordinate X	Chromaticity Coordinate Y	Bulb Finish	Luminous Intensity (cd)	Beam Angle Description	Beam Angle Technical min. (°)
MASTERCcolour CDM-R111 35W/830 10D	81	433	402	Reflector	35000	Spot	9
MASTERCcolour CDM-R111 35W/830 24D	81	433	402	Reflector	8500	Narrow Flood	22
MASTERCcolour CDM-R111 35W/830 40D	81	433	402	Reflector	4000	Flood	36
MASTERCcolour CDM-R111 70W/830 10D*	84	439	393	Reflector	50000	Spot	9
MASTERCcolour CDM-R111 70W/830 24D*	84	439	393	Reflector	15000	Narrow Flood	22
MASTERCcolour CDM-R111 70W/830 40D*	84	439	393	Reflector	9000	Flood	36
MASTERCcolour CDM-R111 20W/830 10D*	85	429	395	Reflector	20000	Spot	10

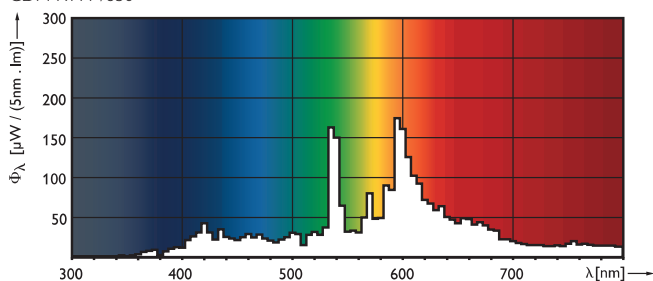
Product ID	Operating Position	Ignition Time max. (sec)	Re-ignition Time max. (min)	Run-up Time 90% max. (min)	Net Weight Per Piece (g)
MASTERCcolour CDM-R111 35W/830 10D	ANY	30	15	3	96
MASTERCcolour CDM-R111 35W/830 24D	ANY	30	15	3	96
MASTERCcolour CDM-R111 35W/830 40D	ANY	30	15	3	96
MASTERCcolour CDM-R111 70W/830 10D*	ANY	30	15	3	96
MASTERCcolour CDM-R111 70W/830 24D*	ANY	30	15	3	96
MASTERCcolour CDM-R111 70W/830 40D*	ANY	30	15	3	96
MASTERCcolour CDM-R111 20W/830 10D*	ANY	30	15	3	95

Note: * Electronic ballast only.

** CDM-R111 20W/830 24D will be launched in Q1 2008

Spectral power distribution

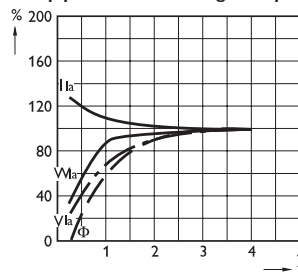
CDM-R111 /830



Performance diagrams

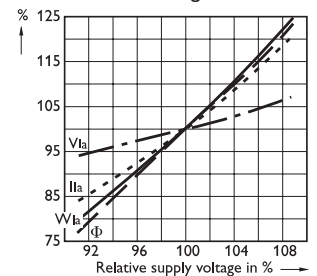
MASTERCcolour CDM-R111 /830

Lamp performance during run up



I_{la} = Lamp current
 Φ = Luminous Flux
 V_{la} = Lamp Voltage
 W_{la} = Lamp Wattage

Effects of mains voltage variations



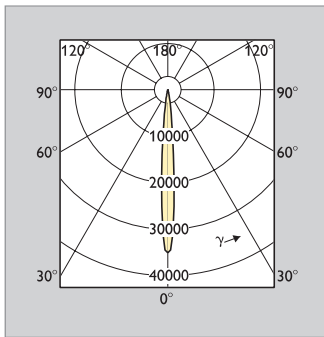
MASTERCcolour CDM

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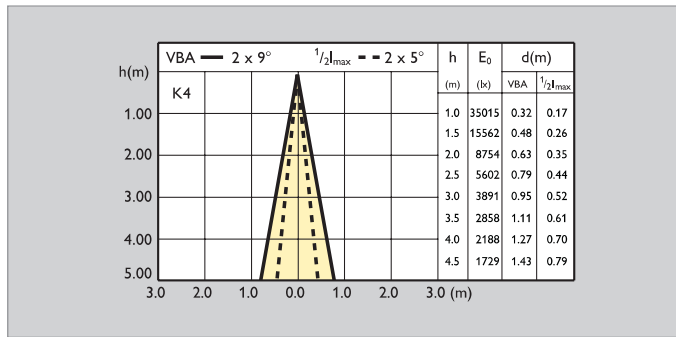
Photometric diagrams

MASTERCcolour CDM-R111 35W/830 10D

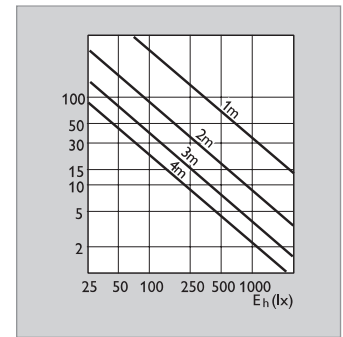
Light distribution curves



Beam diagram

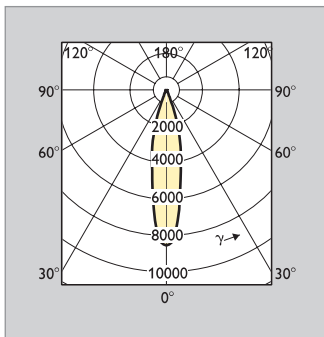


Accent diagram

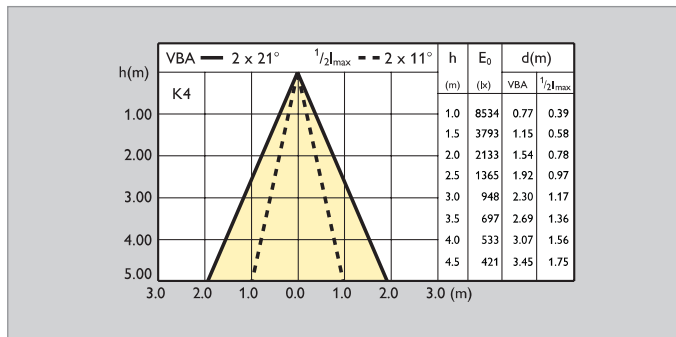


MASTERCcolour CDM-R111 35W/830 24D

Light distribution curves

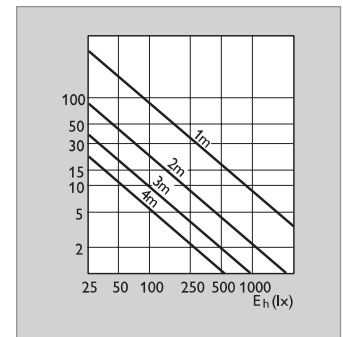


Beam diagram



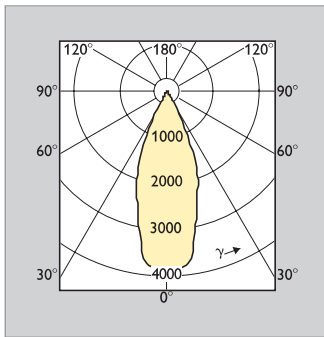
CDM-R111 35W 40D

Accent diagram

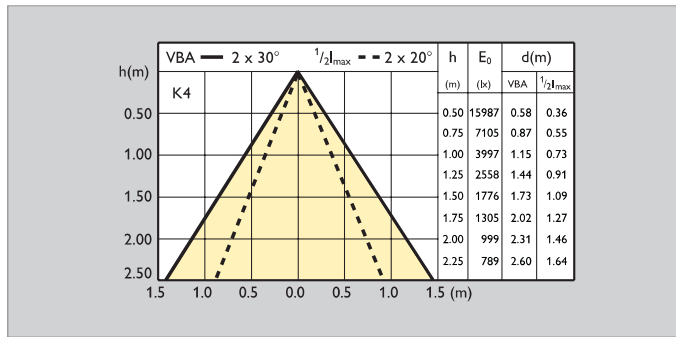


MASTERCcolour CDM-R111 35W/830 40D

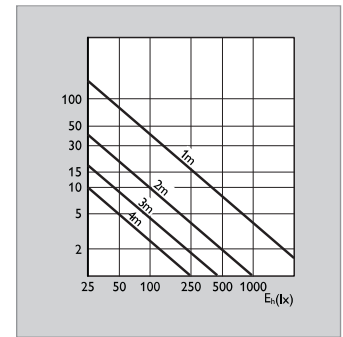
Light distribution curves



Beam diagram

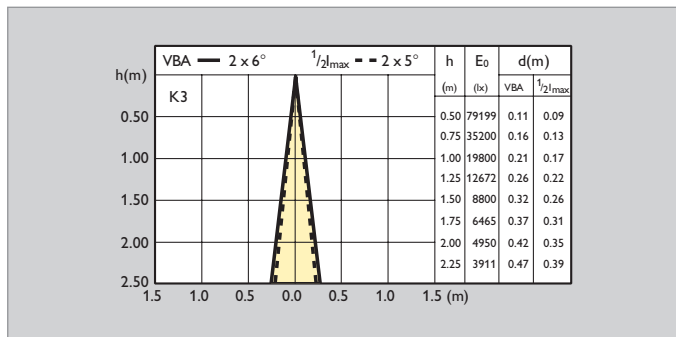


Accent diagram

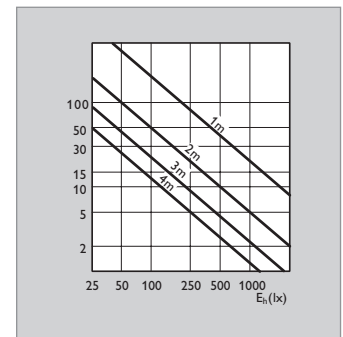


MASTERCcolour CDM-R111 20W/830 10D

Beam diagram

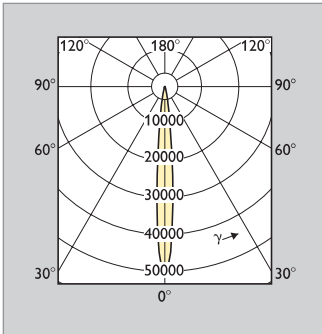


Accent diagram

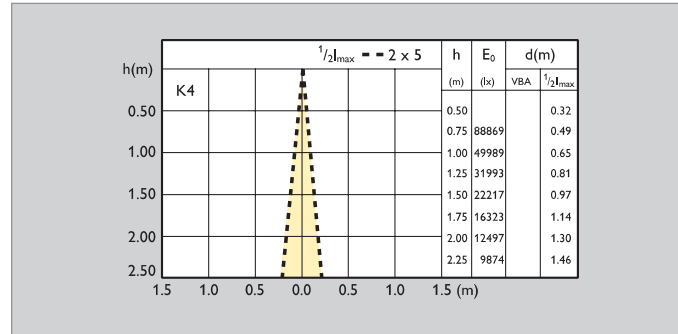


MASTERColour CDM-R111 70W/830 10D

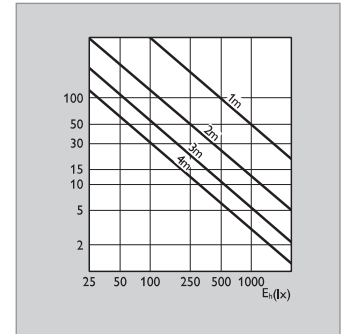
Light distribution curves



Beam diagram

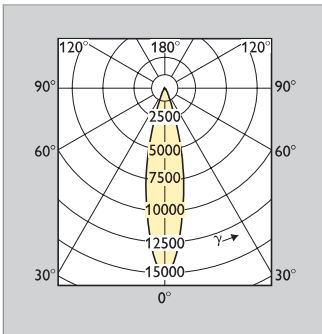


Accent diagram

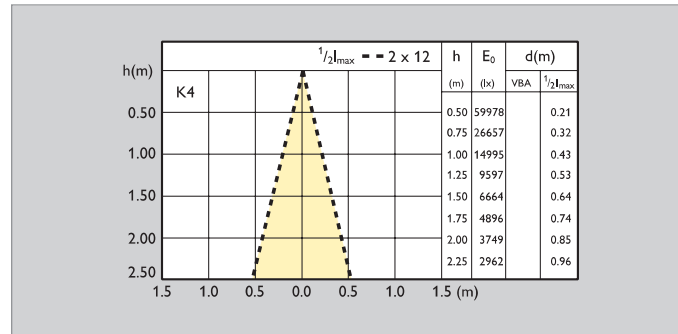


MASTERColour CDM-R111 70W/830 24D

Light distribution curves

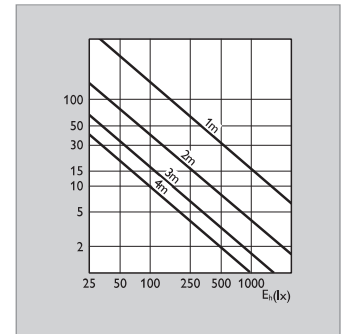


Beam diagram



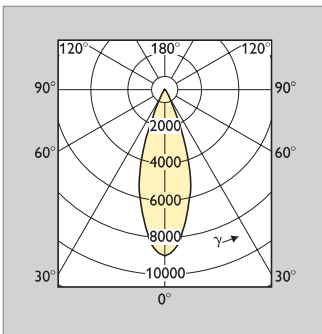
CDM-R111 35W 40D

Accent diagram

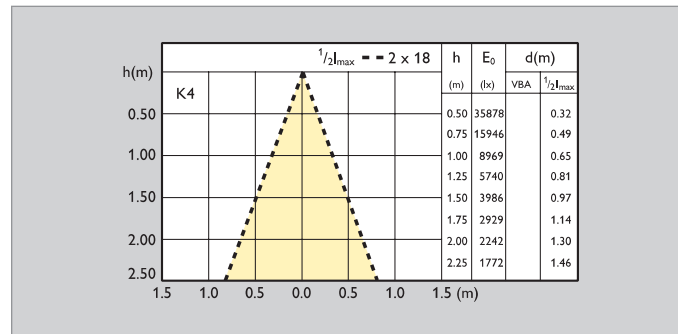


MASTERColour CDM-R111 70W/830 40D

Light distribution curves



Beam diagram



Accent diagram

