



# Product Description

## MASTERColour CDM-R

Range of compact, high-efficiency, discharge reflector lamps with a stable colour over lifetime and a crisp, sparkling light

### Benefits

- High lamp efficacy results in low operating costs and low heat generation
- Long lamp life compared with incandescent and halogen lamps
- Stable colour impression over lifetime
- Unique design increases flexibility in application and allows powerful accents from small, unobtrusive luminaires
- Simplified luminaire design because CDM-R lamps can be used in open luminaires
- Relatively low heat output enhances comfort for shoppers and staff
- Integrated UV-Block shield reduces fading risks

### Features

- Warm or cool white colour impression with good colour rendering
- High beam intensities are achieved very easy and efficiently from these compact reflector lamps

### Application

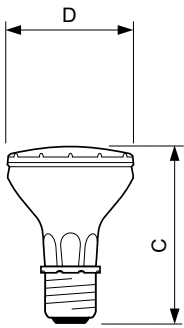
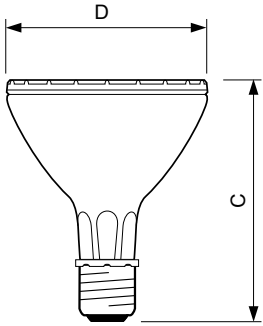
- Shops and shop windows, offices and public buildings
- Decorative outdoor: floodlighting and pedestrian areas

### Warnings and Safety

- Control gear must include end-of-life protection (IEC61167, IEC 62035)
- Use only with electronic control gear. Colour 830 lamps may also use electromagnetic gear.

# MASTERCcolour CDM-R

## Dimensional drawing



Product	D (max)	D	C (max)	C
MASTERCcolour CDM-R 35W/830 E27 PAR30L 30D 1CT	97 mm	95 mm	123 mm	120 mm
MASTERCcolour CDM-R 70W/830 E27 PAR30L 10D 1CT	97 mm	95 mm	123 mm	120 mm
MASTERCcolour CDM-R 70W/830 E27 PAR30L 40D 1CT	97 mm	95 mm	123 mm	120 mm

Product	D (max)	D	C (max)	C
MASTERCcolour CDM-R 35W/830 E27 PAR20 30D 1CT	65 mm	64 mm	95 mm	92 mm

### Controls and dimming

Dimmable	No
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### Operating and electrical

Re-Ignition Time (Min) (Max)	15 min
Warm Up Time To 60% Light (Nom)	120 s

### General information

Cap-Base	E27
Life To 20% Failures (Nom)	8000 h
Operating Position	UNIVERSAL

### Luminaire design requirements

Bulb Temperature (Max)	300 °C
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### Light technical

Colour Code	830
Colour Designation	Warm white (WW)
Correlated Colour Temperature (Nom)	3000 K
Colour Rendering Index (Nom)	81

### Mechanical and housing

Bulb Finish	Clear
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## Approval and application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
928071000691	MASTERCcolour CDM-R 35W/830 E27 PAR30L 30D 1CT	42 kWh	2.8 mg
928071100694	MASTERCcolour CDM-R 70W/830 E27 PAR30L 10D 1CT	80 kWh	8.3 mg
928071200691	MASTERCcolour CDM-R 70W/830 E27 PAR30L 40D 1CT	80 kWh	8.3 mg
928084000691	MASTERCcolour CDM-R 35W/830 E27 PAR20 30D 1CT	42 kWh	2.8 mg

## Operating and electrical (1/2)

## MASTERColour CDM-R

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
928071000691	MASTERColour CDM-R 35W/830 E27 PAR30L 30D 1CT	0.53 A	94 V	78 V	86 V
928071100694	MASTERColour CDM-R 70W/830 E27 PAR30L 10D 1CT	0.97 A	100 V	82 V	90 V

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
928071200691	MASTERColour CDM-R 70W/830 E27 PAR30L 40D 1CT	0.97 A	100 V	82 V	90 V
928084000691	MASTERColour CDM-R 35W/830 E27 PAR20 30D 1CT	0.53 A	96 V	80 V	88 V

### Operating and electrical (2/2)

Order Code	Full Product Name	Power (Nom)
928071000691	MASTERColour CDM-R 35W/830 E27 PAR30L 30D 1CT	39.1 W
928071100694	MASTERColour CDM-R 70W/830 E27 PAR30L 10D 1CT	73.2 W

Order Code	Full Product Name	Power (Nom)
928071200691	MASTERColour CDM-R 70W/830 E27 PAR30L 40D 1CT	73.2 W
928084000691	MASTERColour CDM-R 35W/830 E27 PAR20 30D 1CT	39.1 W

### General information

Order Code	Full Product Name	Life To 50%			Life To 5%
		Failures (Nom)	Failures (Nom)	Switching Cycle	Failures (Nom)
928071000691	MASTERColour CDM-R 35W/830 E27 PAR30L 30D 1CT	8000 h	5000 h	1,000X	
928071100694	MASTERColour CDM-R 70W/830 E27 PAR30L 10D 1CT	12000 h	5500 h	1,050X	

Order Code	Full Product Name	Life To 50%			Life To 5%
		Failures (Nom)	Failures (Nom)	Switching Cycle	Failures (Nom)
928071200691	MASTERColour CDM-R 70W/830 E27 PAR30L 40D 1CT	12000 h	5500 h	1,050X	
928084000691	MASTERColour CDM-R 35W/830 E27 PAR20 30D 1CT	8000 h	5000 h	800X	

### Light technical (1/2)

Order Code	Full Product Name	Beam		Chromaticity	
		Angle (Nom)	Beam Description	Coordinate X (Nom)	Coordinate Y (Nom)
928071000691	MASTERColour CDM-R 35W/830 E27 PAR30L 30D 1CT	30 °	Flood	0.431	0.400
928071100694	MASTERColour CDM-R 70W/830 E27 PAR30L 10D 1CT	10 °	Spot	0.427	0.397
928071200691	MASTERColour CDM-R 70W/830	40 °	Flood	0.427	0.397

Order Code	Full Product Name	Beam		Chromaticity	
		Angle (Nom)	Beam Description	Coordinate X (Nom)	Coordinate Y (Nom)
	E27 PAR30L 40D 1CT				
928084000691	MASTERColour CDM-R 35W/830 E27 PAR20 30D 1CT	30 °	Flood	0.433	0.402

### Light technical (2/2)

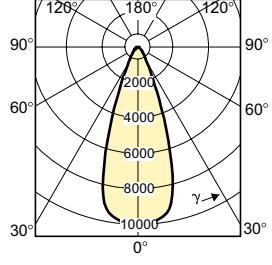
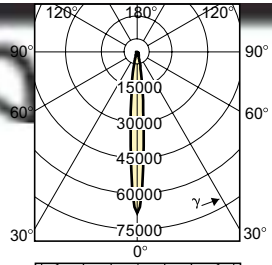
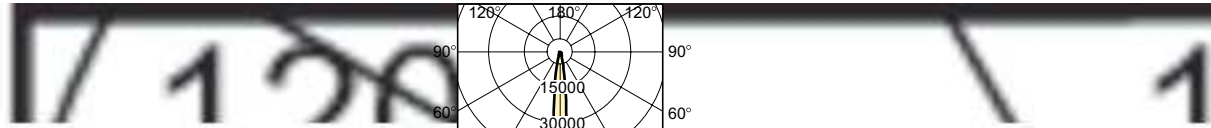
## MASTERCcolour CDM-R

Order Code	Full Product Name	Llmf At End		
		Of Nominal Lifetime (Nom)	Luminous Flux (Rated) (Nom)	Luminous Intensity (Nom)
928071000691	MASTERCcolour CDM-R 35W/830 E27 PAR30L 30D 1CT	48 %	2200 lm	7400 cd
928071100694	MASTERCcolour CDM-R 70W/830 E27 PAR30L 10D 1CT	62 %	4600 lm	68000 cd

Order Code	Full Product Name	Llmf At End		
		Of Nominal Lifetime (Nom)	Luminous Flux (Rated) (Nom)	Luminous Intensity (Nom)
928071200691	MASTERCcolour CDM-R 70W/830 E27 PAR30L 40D 1CT	62 %	4600 lm	9500 cd
928084000691	MASTERCcolour CDM-R 35W/830 E27 PAR20 30D 1CT	52 %	1900 lm	5300 cd

### Mechanical and housing

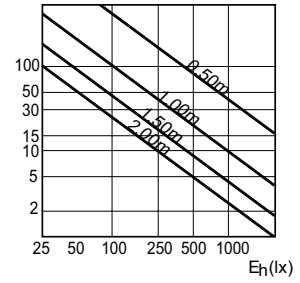
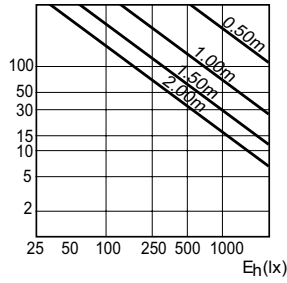
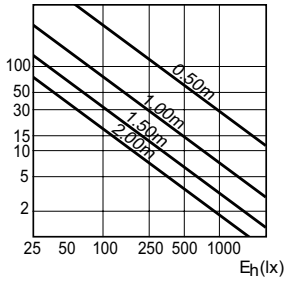
Order Code	Full Product Name	Bulb Shape
928071000691	MASTERCcolour CDM-R 35W/830 E27 PAR30L 30D 1CT	PAR30L
928071100694	MASTERCcolour CDM-R 70W/830 E27 PAR30L 10D 1CT	PAR30L
928071200691	MASTERCcolour CDM-R 70W/830 E27 PAR30L 40D 1CT	PAR30L
928084000691	MASTERCcolour CDM-R 35W/830 E27 PAR20 30D 1CT	PAR20





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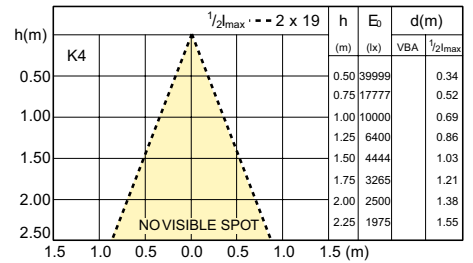
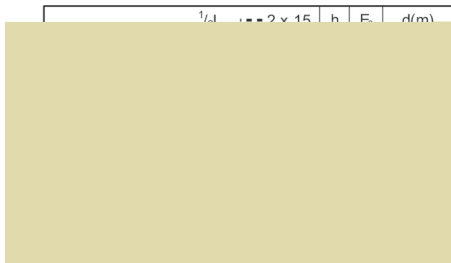
## Accent Diagrams



LDAC\_CDM-R\_0006-Accent diagram



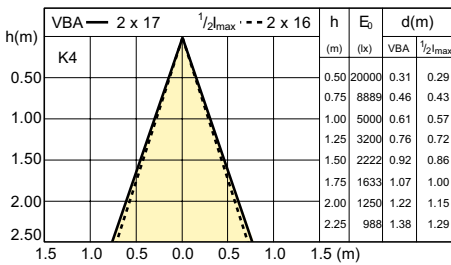
## Beam Diagrams



LDDBE\_CDM-R\_0012-Beam diagram

LDDBE\_CDM-R\_0006-Beam diagram

LDDBE\_CDM-R\_0007-Beam diagram



LDDBE\_CDM-R\_0010-Beam diagram

