



Simply irresistible. Superior light quality from start to finish

MasterColor CDM-R Elite

The Elite family is at the very top of the MasterColor CDM range, and gives a unique combination of unbeatable light quality and consistent performance over lifetime, while keeping running costs low. MasterColor metal halide lamps deliver consistent white light and higher color rendering than any standard metal halide source for architectural lighting. MasterColor CDM Elite PAR30L lamps deliver similar performance as the MasterColor Elite family lamps in the familiar PAR30L shape.

Benefits

- Energy-efficient alternative to incandescent, halogen and standard MasterColor PAR30L lamps.
- Improved lumen maintenance over standard metal halide and standard MasterColor PAR30L lamps.
- Lamp to lamp color consistency over life.

Features

- Exceptional color rendering and superior color stability -- within +/- 200 K, CRI 90, 3000 K
- Low mercury, no lead; ALTO-compliant
- Operates on existing electronic and electromagnetic ballasts
- Features FadeBlock™—an integrated UV-blocking medium for reduced fading of fabrics and paintings
- Available in 35 and 70 W versions

Application

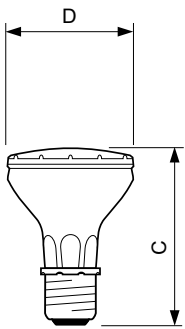
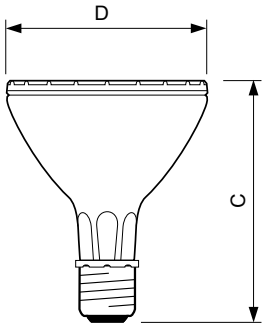
- Ideal for display and accent lighting in retail and architectural lighting for interior and exterior applications.

MasterColor CDM-R Elite

Versions



Dimensional drawing



Product	D (max)	C (max)
MASTERColour CDM-R Elite 70W/930 E27 PAR30L 40D	97 mm	123 mm
MASTERColour CDM-R Elite 70W/930 E27 PAR30L 30D	97 mm	123 mm
MASTERColour CDM-R Elite 70W/930 E27 PAR30L 10D	97 mm	123 mm
MASTERColour CDM-R Elite 35W/930 E27 PAR30L 30D	97 mm	123 mm

Product	D (max)	C (max)
MASTERColour CDM-R Elite 35W/930 E27 PAR20 30D	65 mm	95 mm
MASTERColour CDM-R Elite 35W/930 E27 PAR20 10D	65 mm	95 mm

MasterColor CDM-R Elite

Approval and Application

Energy Efficiency Label (EEL)	A
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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)	12000 h
Life To 50% Failures (Nom)	15000 h
Life To 5% Failures (Nom)	9000 h
Operating Position	UNIVERSAL
Switching Cycle	1350X

Luminaire Design Requirements

Bulb Temperature (Max)	300 °C
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Light Technical

Colour Code	930
Colour Designation	Warm White (WW)
Correlated Colour Temperature (Nom)	3000 K
Llmf At End Of Nominal Lifetime (Nom)	80 %
Lumen Maintenance 12000 h (Nom)	82 %
Lumen Maintenance 2000 h (Nom)	94 %
Lumen Maintenance 4000 h (Nom)	90 %

Mechanical and Housing

Bulb Finish	Clear (CL)
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Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
65155000	MASTERColour CDM-R Elite 35W/930 E27 PAR20 10D	43 kWh	4.7 mg
65157400	MASTERColour CDM-R Elite 35W/930 E27 PAR20 30D	43 kWh	4.7 mg
24194200	MASTERColour CDM-R Elite 35W/930 E27 PAR30L 30D	43 kWh	4.7 mg
24186700	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 10D	80 kWh	6.6 mg
24188100	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 30D	80 kWh	6.6 mg
24190400	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 40D	80 kWh	6.6 mg

Operating and Electrical (1/2)

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
65155000	MASTERColour CDM-R Elite 35W/930 E27 PAR20 10D	-	96 V	80 V	88 V
65157400	MASTERColour CDM-R Elite 35W/930 E27 PAR20 30D	-	96 V	80 V	88 V
24194200	MASTERColour CDM-R Elite 35W/930 E27 PAR30L 30D	0.450 A	96 V	80 V	88 V

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
24186700	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 10D	-	93 V	79 V	86 V
24188100	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 30D	-	93 V	79 V	86 V
24190400	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 40D	-	93 V	79 V	86 V

Operating and Electrical (2/2)

MasterColor CDM-R Elite

Order Code	Full Product Name	Power (Rated) (Nom)
65155000	MASTERColour CDM-R Elite 35W/930 E27 PAR20 10D	39.0 W
65157400	MASTERColour CDM-R Elite 35W/930 E27 PAR20 30D	39.0 W
24194200	MASTERColour CDM-R Elite 35W/930 E27 PAR30L 30D	39 W
24186700	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 10D	73.0 W

Order Code	Full Product Name	Power (Rated) (Nom)
24188100	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 30D	73.0 W
24190400	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 40D	73.0 W

General Information

Order Code	Full Product Name	Life To 10% Failures (Nom)
65155000	MASTERColour CDM-R Elite 35W/930 E27 PAR20 10D	5500 h
65157400	MASTERColour CDM-R Elite 35W/930 E27 PAR20 30D	5500 h
24194200	MASTERColour CDM-R Elite 35W/930 E27 PAR30L 30D	5500 h

Order Code	Full Product Name	Life To 10% Failures (Nom)
24186700	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 10D	6500 h
24188100	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 30D	6500 h
24190400	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 40D	6500 h

Light Technical (1/2)

Order Code	Full Product Name	Beam		Chromaticity	
		Angle (Nom)	Beam Description	Coordinate X (Nom)	Coordinate Y (Nom)
65155000	MASTERColour CDM-R Elite 35W/930 E27 PAR20 10D	10 °	Spot	0.437	0.400
65157400	MASTERColour CDM-R Elite 35W/930 E27 PAR20 30D	30 °	Flood	0.437	0.400
24194200	MASTERColour CDM-R Elite 35W/930 E27 PAR30L 30D	30 °	Flood	0.437	0.400
24186700	MASTERColour CDM-R Elite	10 °	Spot	0.443	0.402

Order Code	Full Product Name	Beam		Chromaticity	
		Angle (Nom)	Beam Description	Coordinate X (Nom)	Coordinate Y (Nom)
	70W/930 E27 PAR30L 10D				
24188100	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 30D	30 °	Flood	0.443	0.402
24190400	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 40D	40 °	Flood	0.443	0.402

Light Technical (2/2)

Order Code	Full Product Name	Colour		Luminous		
		Rendering Index (Min)	Rendering Index (Nom)	Efficacy (rated) (Nom)	Design Mean Lumens	Luminous Intensity (Nom)
65155000	MASTERColour CDM-R Elite 35W/930 E27 PAR20 10D	88	91	60 lm/W	2040 lm	23000 cd
65157400	MASTERColour CDM-R Elite	88	91	61 lm/W	2040 lm	6500 cd

Order Code	Full Product Name	Colour		Luminous		
		Rendering Index (Min)	Rendering Index (Nom)	Efficacy (rated) (Nom)	Design Mean Lumens	Luminous Intensity (Nom)
	35W/930 E27 PAR20 30D					
24194200	MASTERColour CDM-R Elite 35W/930 E27 PAR30L 30D	88	91	69 lm/W	2000 lm	8000 cd

MasterColor CDM-R Elite

Order Code	Full Product Name	Colour Rendering Index	Colour Rendering Index	Luminous Efficacy (rated)	Design Mean Lumens	Luminous Intensity
		(Min)	(Nom)	(Nom)	(Nom)	(Nom)
24186700	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 10D	89	92	70 lm/W	3800 lm	61000 cd
24188100	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 30D	89	92	70 lm/W	3800 lm	14000 cd

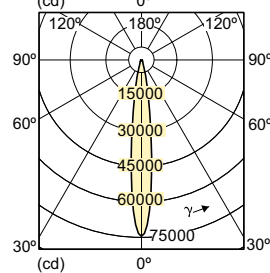
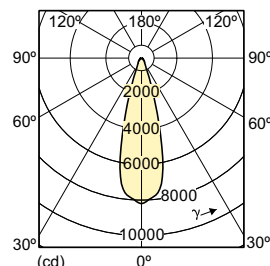
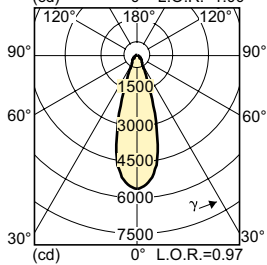
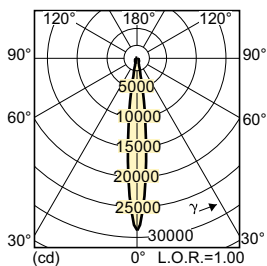
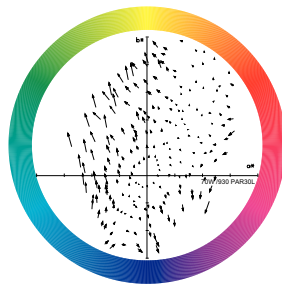
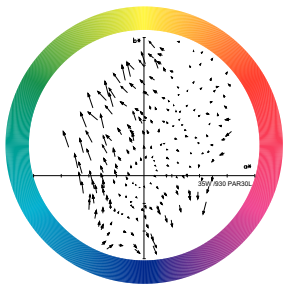
Order Code	Full Product Name	Colour Rendering Index	Colour Rendering Index	Luminous Efficacy (rated)	Design Mean Lumens	Luminous Intensity
		(Min)	(Nom)	(Nom)	(Nom)	(Nom)
24186700	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 30D	89	92	70 lm/W	3800 lm	10300 cd
24190400	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 40D	89	92	70 lm/W	3800 lm	10300 cd

Mechanical and Housing

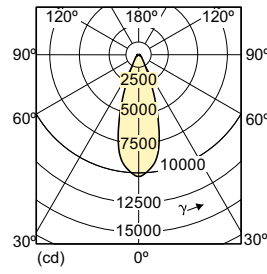
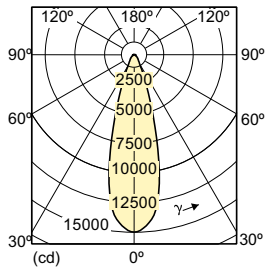
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65157400	MASTERColour CDM-R Elite 35W/930 E27 PAR20 30D	PAR20
24194200	MASTERColour CDM-R Elite 35W/930 E27 PAR30L 30D	PAR30L

Order Code	Full Product Name	Bulb Shape
24186700	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 10D	PAR30L
24188100	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 30D	PAR30L
24190400	MASTERColour CDM-R Elite 70W/930 E27 PAR30L 40D	PAR30L

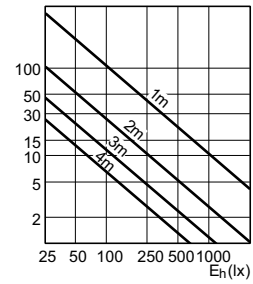
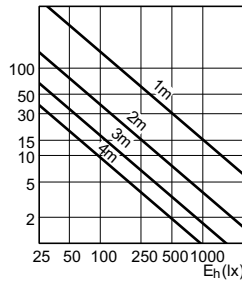
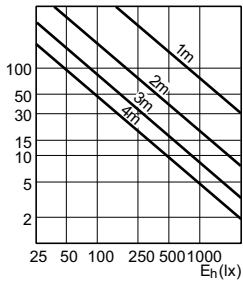
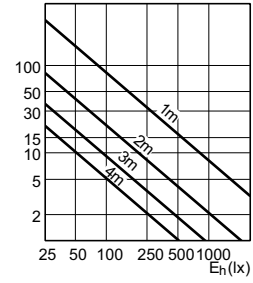
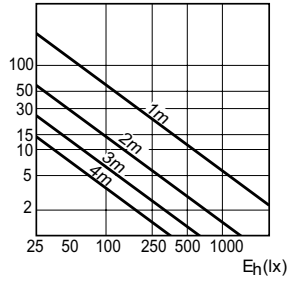
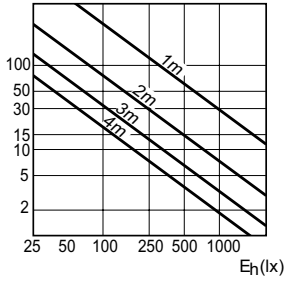
Colour Rendering Diagrams



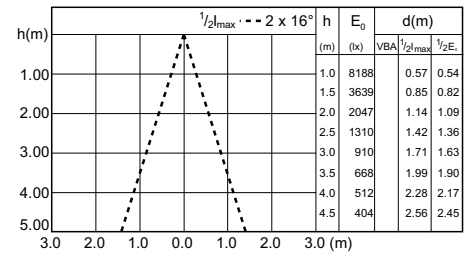
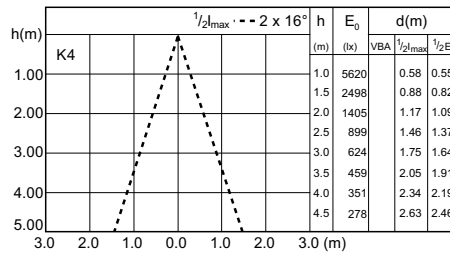
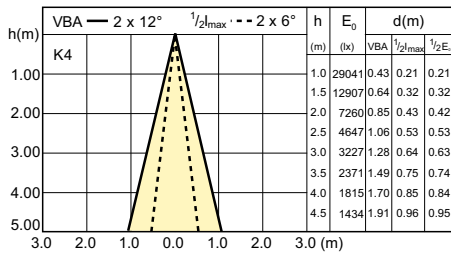
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Accent Diagrams



Beam Diagrams



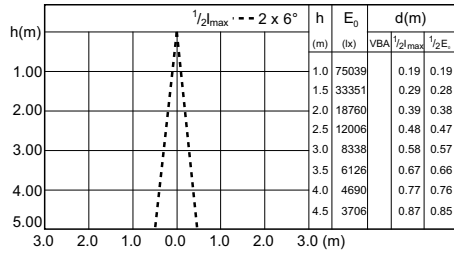
LDBE_CDM-R-E_0015-Beam diagram

LDBE_CDM-R-E_0016-Beam diagram

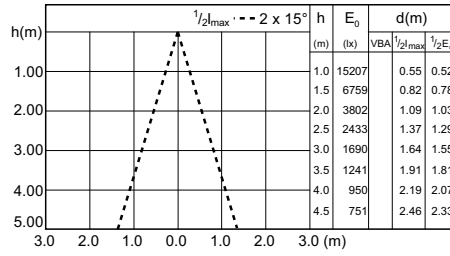
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MasterColor CDM-R Elite

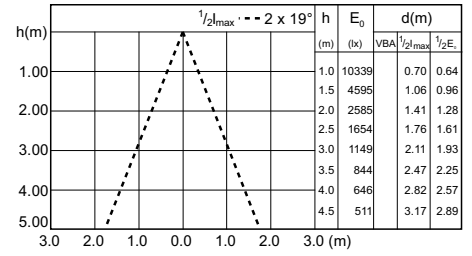
Beam Diagrams



LDBE_CDM-R-E_0003-Beam diagram



LDBE_CDM-R-E_0004-Beam diagram



LDBE_CDM-R-E_0005-Beam diagram

