



Product description

MHN-TD Essential

Double-envelope, double-ended Metal Halide lamps

Benefits

- All types have UV-Blocking for reduced health and fading risks

Features

- Quartz discharge tube containing high-pressure mercury and a mixture of dysprosium, holmium and thulium halides (MHW-TD), with sodium and thallium added for colour correction and arc stabilisation
- Double-ended lamps housed in a tubular clear UV-Block quartz evacuated outer envelope
- Burning position horizontal +/- 45°

Application

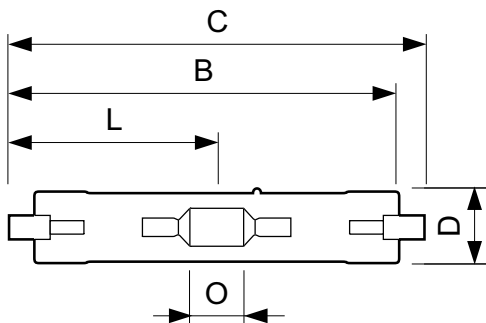
- Indoors – accent lighting, general lighting in downlighters, e.g. in shops and malls
- Downlighters, uplighters and wall-washers, e.g. in shops and malls
- Outdoors – floodlighting monuments, facades and billboards

Versions



MHN-TD Essential

Dimensional drawing



Product	O
MHN-TD Essential 150W/730 Rx7s 1CT/12	17.8 mm
MHN-TD Essential 70W/730 RX7s 1CT/12	7.7 mm
MHN-TD Essential 150W/742 RX7s 1CT/12	17.8 mm
MHN-TD Essential 70W/742 RX7s 1CT/12	7.7 mm

Approval and Application

Energy Efficiency Label (EEL)	A+
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Controls and Dimming

Dimmable	no
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General Information

Cap-Base	RX7S
Life To 20% Failures (Nom)	7000 h
Life To 50% Failures (Nom)	8000 h
Life To 5% Failures (Min)	4000 h
Life To 5% Failures (Nom)	4000 h

Light Technical

Colour Rendering Index (Max)	-
Colour Rendering Index (Min)	-
Colour Rendering Index (Nom)	70

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)
928480500195	MHN-TD Essential 70W/742 RX7s 1CT/12	83 kWh	11 mg
928481000192	MHN-TD Essential 70W/730 RX7s 1CT/12	83 kWh	13.4 mg
928480600195	MHN-TD Essential 150W/742 RX7s 1CT/12	165 kWh	12.3 mg
928481100192	MHN-TD Essential 150W/730 Rx7s 1CT/12	165 kWh	18 mg

Operating and Electrical (1/2)

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
928480500195	MHN-TD Essential 70W/742 RX7s 1CT/12	0.98 A	100 V	80 V	90 V
928481000192	MHN-TD Essential 70W/730 RX7s 1CT/12	0.98 A	98 V	78 V	90 V
928480600195	MHN-TD Essential 150W/742 RX7s 1CT/12	1.8 A	108 V	88 V	98 V

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
928481100192	MHN-TD Essential 150W/730 Rx7s 1CT/12	1.8 A	106 V	86 V	96 V

Operating and Electrical (2/2)

Order Code	Full Product Name	Power (Rated) (Nom)
928480500195	MHN-TD Essential 70W/742 RX7s 1CT/12	75.0 W

Order Code	Full Product Name	Power (Rated) (Nom)
928481000192	MHN-TD Essential 70W/730 RX7s 1CT/12	75.0 W

MHN-TD Essential

Order Code	Full Product Name	Power (Rated) (Nom)
928480600195	MHN-TD Essential 150W/742 RX7s 1CT/12	150.0 W

Order Code	Full Product Name	Power (Rated) (Nom)
928481100192	MHN-TD Essential 150W/730 Rx7s 1CT/12	150.0 W

General Information

Order Code	Full Product Name	Life To 20% Failures (Min)	Life To 50% Failures (Min)
928480500195	MHN-TD Essential 70W/742 RX7s 1CT/12	6500 h	8000 h
928481000192	MHN-TD Essential 70W/730 RX7s 1CT/12	5800 h	7500 h

Order Code	Full Product Name	Life To 20% Failures (Min)	Life To 50% Failures (Min)
928480600195	MHN-TD Essential 150W/742 RX7s 1CT/12	6500 h	8000 h
928481100192	MHN-TD Essential 150W/730 Rx7s 1CT/12	6500 h	8000 h

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
928480500195	MHN-TD Essential 70W/742 RX7s 1CT/12	500 °C
928481000192	MHN-TD Essential 70W/730 RX7s 1CT/12	500 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928480600195	MHN-TD Essential 150W/742 RX7s 1CT/12	650 °C
928481100192	MHN-TD Essential 150W/730 Rx7s 1CT/12	650 °C

Light Technical (1/3)

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Colour Code	Colour Designation
928480500195	MHN-TD Essential 70W/742 RX7s 1CT/12	370	370	742	Cool White (CW)
928481000192	MHN-TD Essential 70W/730 RX7s 1CT/12	434	402	730	Warm white (WW)

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Colour Code	Colour Designation
928480600195	MHN-TD Essential 150W/742 RX7s 1CT/12	370	370	742	-
928481100192	MHN-TD Essential 150W/730 Rx7s 1CT/12	434	400	730	Warm white (WW)

Light Technical (2/3)

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Lumen Maintenance 10000 h (Min)	Lumen Maintenance 10000 h (Nom)	Lumen Maintenance 2000 h (Min)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Min)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Min)
928480500195	MHN-TD Essential 70W/742 RX7s 1CT/12	4200 K	40 %	50 %	79 %	85 %	68 %	75 %	75 lm/W	5000 lm
928481000192	MHN-TD Essential 70W/730 RX7s 1CT/12	3000 K	45 %	55 %	59 %	65 %	53 %	60 %	80 lm/W	5200 lm
928480600195	MHN-TD Essential 150W/742 RX7s 1CT/12	4200 K	60 %	70 %	74 %	80 %	68 %	75 %	81 lm/W	11600 lm
928481100192	MHN-TD Essential 150W/730 Rx7s 1CT/12	3000 K	50 %	60 %	69 %	75 %	58 %	65 %	87 lm/W	12200 lm

Light Technical (3/3)

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
928480500195	MHN-TD Essential 70W/742 RX7s 1CT/12	5500 lm
928481000192	MHN-TD Essential 70W/730 RX7s 1CT/12	6000 lm

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
928480600195	MHN-TD Essential 150W/742 RX7s 1CT/12	12900 lm
928481100192	MHN-TD Essential 150W/730 Rx7s 1CT/12	13800 lm

Mechanical and Housing

Order Code	Full Product Name	Bulb Material	Bulb Shape
928480500195	MHN-TD Essential 70W/742 RX7s 1CT/12	UV-Block Quartz	T21
928481000192	MHN-TD Essential 70W/730 RX7s 1CT/12	-	T21

Order Code	Full Product Name	Bulb Material	Bulb Shape
928480600195	MHN-TD Essential 150W/742 RX7s 1CT/12	-	T24
928481100192	MHN-TD Essential 150W/730 Rx7s 1CT/12	-	T24

Colour Rendering Diagrams

