

# H.I.D. lamps

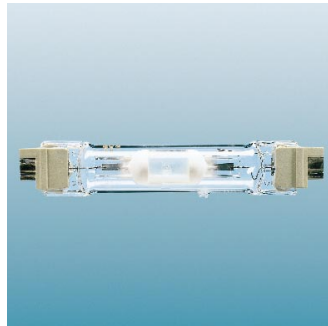
# Low-wattage metal halide



MHN-TD/MHW-TD RX7S



MHN-T



MHN-TD FC2

Low wattage metal halide lamps are double-envelope, single- or double-ended lamps with a quartz discharge tube containing high-pressure mercury and a mixture of dysprosium, holmium and thulium halides (MHN-T and MHN-TD) or tin iodide (MHW-TD), with sodium and thallium added for colour correction and arc stabilisation. They require an ignitor and a ballast, which influence the lamp performance.

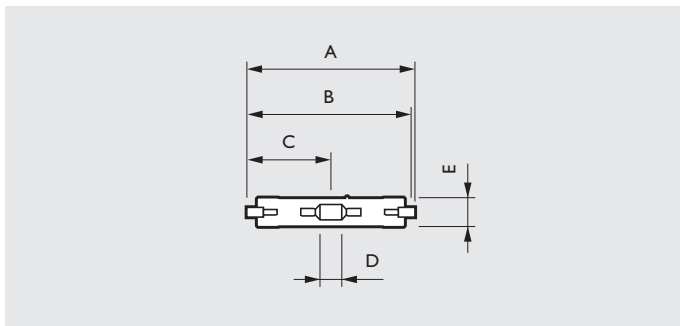
MHN-T lamps are single-ended and housed in a tubular clear hard-glass outer envelope. A double sleeve of doped quartz around the discharge tube protects against UV radiation and the consequences of explosion. These lamps can therefore be used in open luminaires. The burning position of MHN-T lamps is universal but the colour temperature varies with the burning position causing visual differences.

MHN-TD and MHW-TD lamps are double-ended and housed in a tubular clear UV-block quartz evacuated outer envelope. In the luminaire a hard glass cover is obliged, which serves to avoid injury or damage as a consequence of possible discharge tube shattering. MHN-TD and MHW-TD lamps have a horizontal burning position, with a tolerance of +/- 45 degrees.

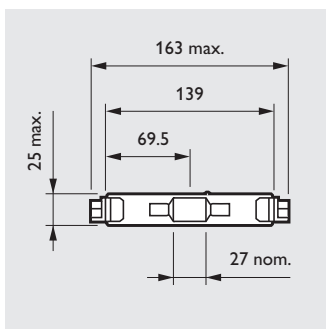
**Note**  
**ALL LAMPS IN UV-BLOCK FOR REDUCED HEALTH/FADING RISK**

### Applications

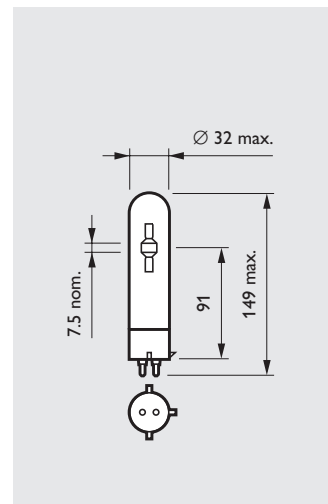
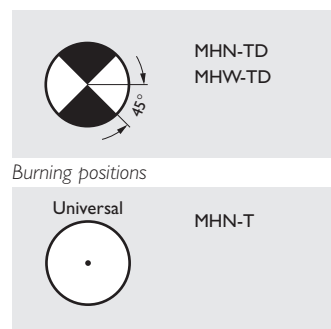
- MHN-T(D): Indoors - accent and general lighting in downlighters.
- MHW-TD: Indoors - downlighters, uplighters and wall-washers e.g. in shops.
- MHN-T(D) and MHW-TD: Outdoors - floodlighting monuments, facades and billboards.



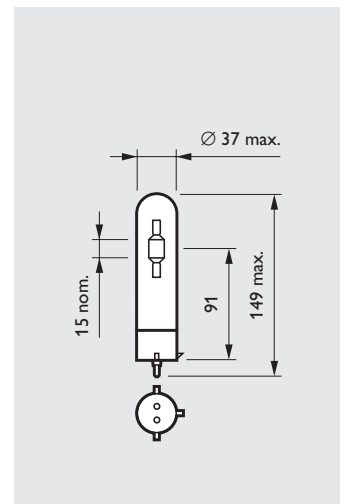
Type	A max.	B nom.	C nom.	D nom.	E max.
Cap/base RX7s					
MHN-TD/MHW-TD 70W	117.6	114.2	57.1	7.0	21.0
MHN-TD/MHW-TD 150W	135.4	132.0	66.0	18.0	24.0



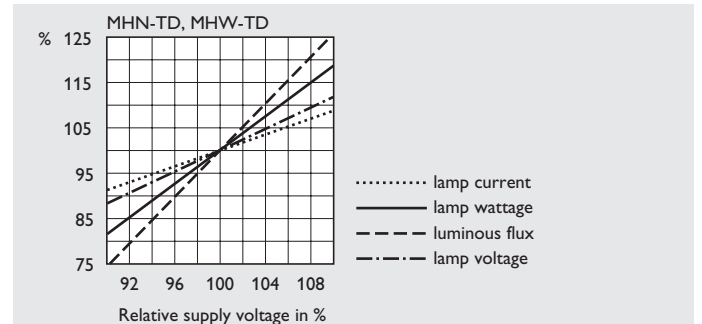
MHN-TD 250W FC2



MHN-T 70W PG 12-2



MHN-T 150W PGX 12-2

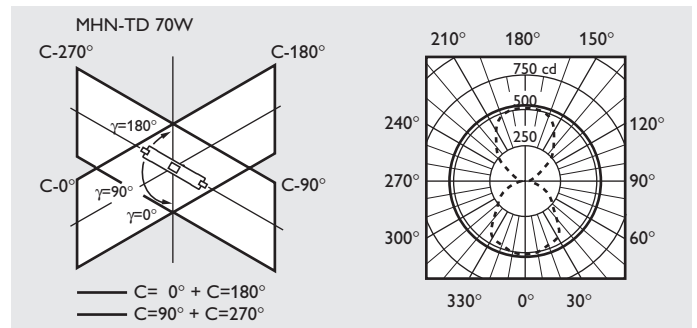
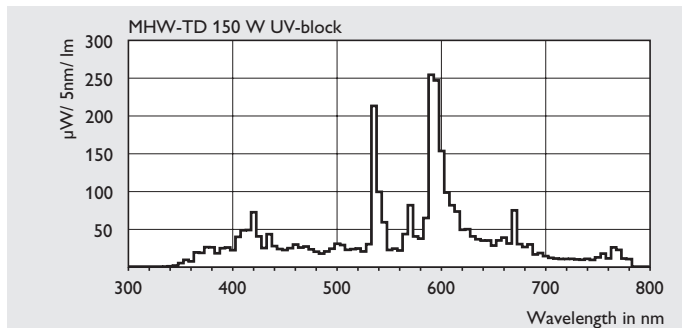
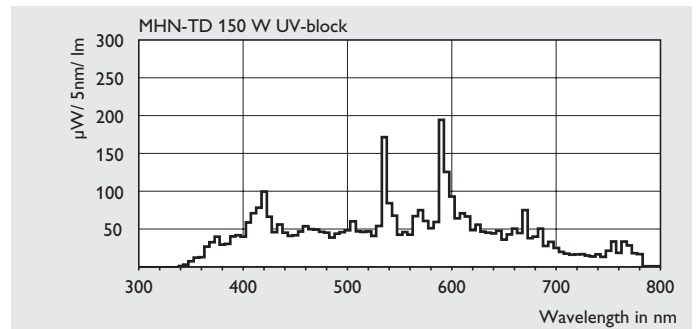
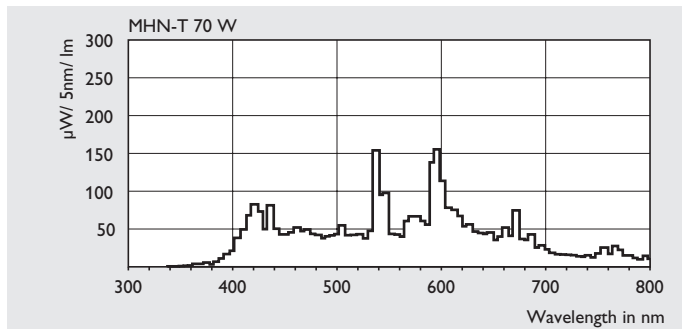


Effects of mains voltage variations

Dimensions in mm

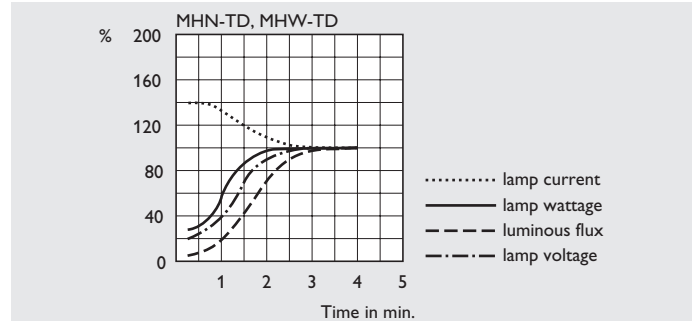
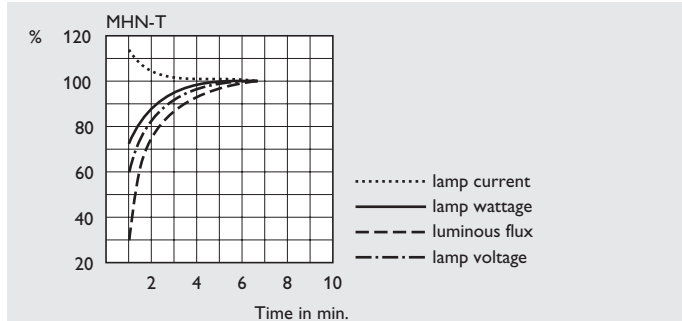


Type	W	Cap/ base	Lamp wattage	Lamp voltage	Correlated colour temp.	Lumen output	Colour rendering index	Lamp current	Maximum permissible base/pinch temp. degr.C	Maximum permissible bulb temp. degr.C	Chromaticity		Nett weight	Ordering number
											coordinate	coordinate		
			W	V	K	lm		A			x	y	g	
<b>MHN-T</b>														
MHN-T	70W	PG12-2	75	87	4000	5300	80	1.0	210	425	380	378	70	8222 341 48500
MHN-T	150W	PGX12-2	147	93	4000	12000	85	1.8	210	500	380	378	90	9280 798 09200
<b>MHN-TD</b>														
MHN-TD	70W	RX7S	75	90	4200	5500	80	1.0	280	500	358	367	21	9280 702 05100
MHN-TD	150W	RX7S	150	98	4200	12100	85	1.8	280	650	370	370	30	9280 765 05100
MHN-TD	250W	FC2	252	100	4200	20000	85	3.0	280	650	370	370	61	9280 786 05100
<b>MHW-TD</b>														
MHW-TD	70W	RX7S	75	90	3000	6000	75	1.0	280	500	435	403	21	9280 816 05100
MHW-TD	150W	RX7S	150	96	3000	13000	75	1.8	280	650	434	400	30	9280 815 05100



Spectral power distributions

Polar light distribution



Lamp performances during run-up