



Description

35 and 50 W Microdischarge lamps with an arc length of 3.8 mm mounted on a P32-d base. Characteristic life (Tc) is 5000 h (DL35), 3000 h (DL50). The lamps emits very little UV due to the use of a UV block outer bulb.

Ballast/starter

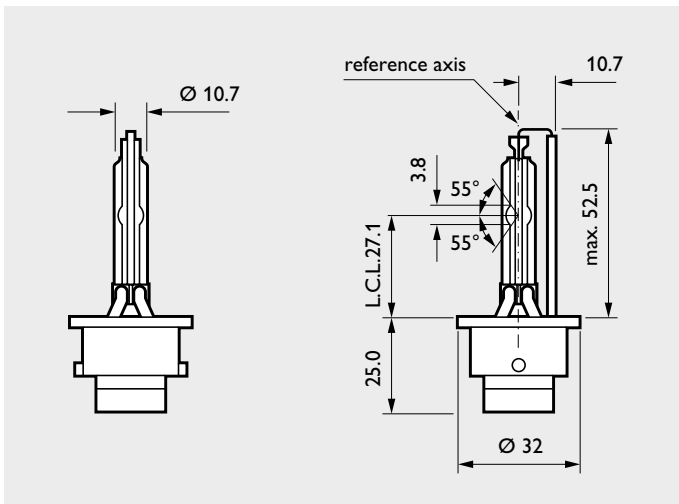
These lamps can only be used in conjunction with an electronic ballast and starter. The lamps are able to withstand a "fast run-up mode" as used in automotive applications. Lamps can be relit after switch-off (hot restrike). The ballast must then have sufficient starting voltage and power. Lamp voltage is approx. 85 V.

Applications

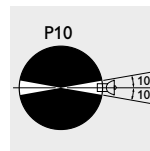
- The lamps can be used in:
- Medical applications
 - Torches
 - Working lights
 - Fibre optics

Safety

Lamps should be used in closed luminaires only.



Dimensions in mm



Burning position

Electrical data

Type	Wattage W	Characteristic life* h	Luminous flux at 1.5 h lm	Colour temperature K	Colour Rendering Index	Starting voltage** kV	Ordering number	EOC
DL35	35	5000	3600 +/- 450	3900	75	max. 23	9285 027 29400	471512
DL50	50	3000	5300 +/- 450	3900	75	max. 23	9285 028 29400	471536

*Tc (63.3% defects) in short cycle; many switches a day, in long cycle; 113/4 h on/ 1/4 h off.

**at 23 kV: 99.7 % of a batch of lamps (average value + 3 sigma) will start.



Special H.I.D. lamps

MPXL - DL35/50

Maximum temperatures	DL35	DL50
at pinch	350°C	420°C
at outer bulb	700°C	800°C
at ceramic ring (outside)	180°C	180°C

Lumen depreciation	DL35	DL50
30% reduction at	3000h	2000h
50% reduction at	5000h	3000h
depending on ballast configuration		

Ballast/ignitor suppliers

Labino in Sweden is supplying AC and DC ballasts.
Aromat (Matsushita) in the USA is supplying DC ballasts.
Standard Automotive ballasts can be used as well.

Lamp base and Light Centre Length

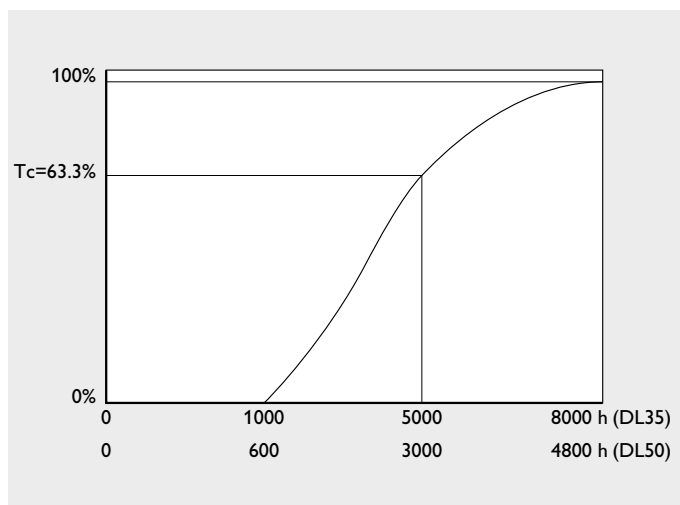
The reference notch in the P32-d base should be located on the upper side. The lead-out wire is then on the underside of the lamp. The shadow of the lead-out wire and the excess salts are then overlapping. Light Centre Length is 27.1 mm.

Spectral radiant flux

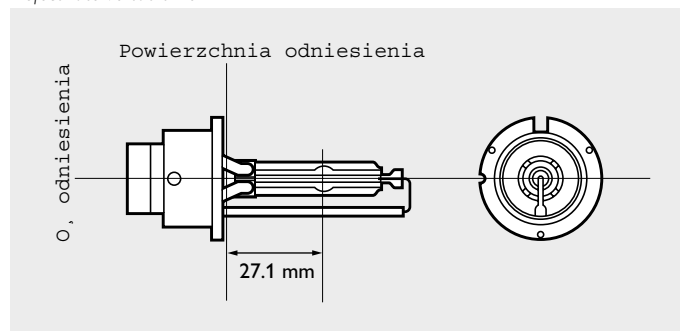
The lamp emits very little UV due to its UV blocking outer bulb. When adjusting a burning lamp and in case of direct eye contact wear safety UV glasses.

Safety

The pressure in cold lamps is 2.6 bar: hot lamps have an internal pressure of about 40 bar.
Use the lamp only in closed luminaires
Avoid direct contact of the glass with bare hands.



Defect rate versus time

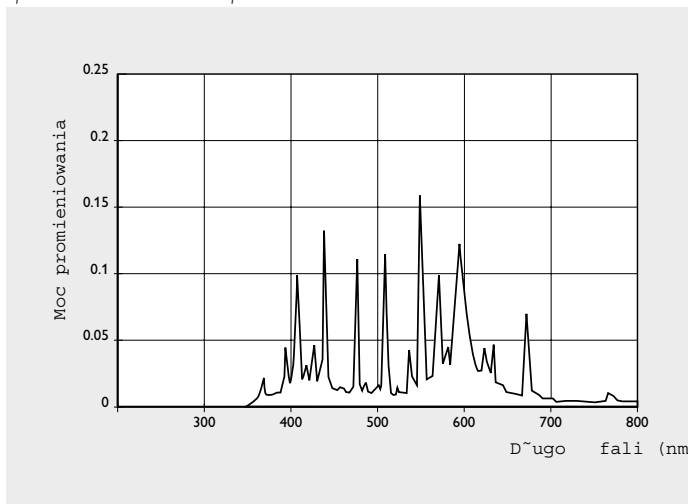


Light Centre Length

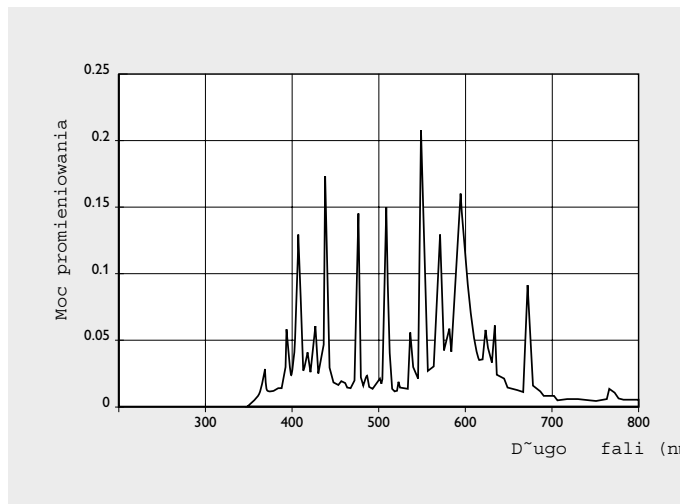
UV radiation and damage factors

Type	UV power in W			PET H*klx	Damage factor
	A	B	C		
DL35	1.0	0.02	0.01	5	0.4
DL50	1.5	0.03	0.01	5	0.4

Spectral distribution in the aperture



DL35
2



DL50



PHILIPS