

Radium- light and life



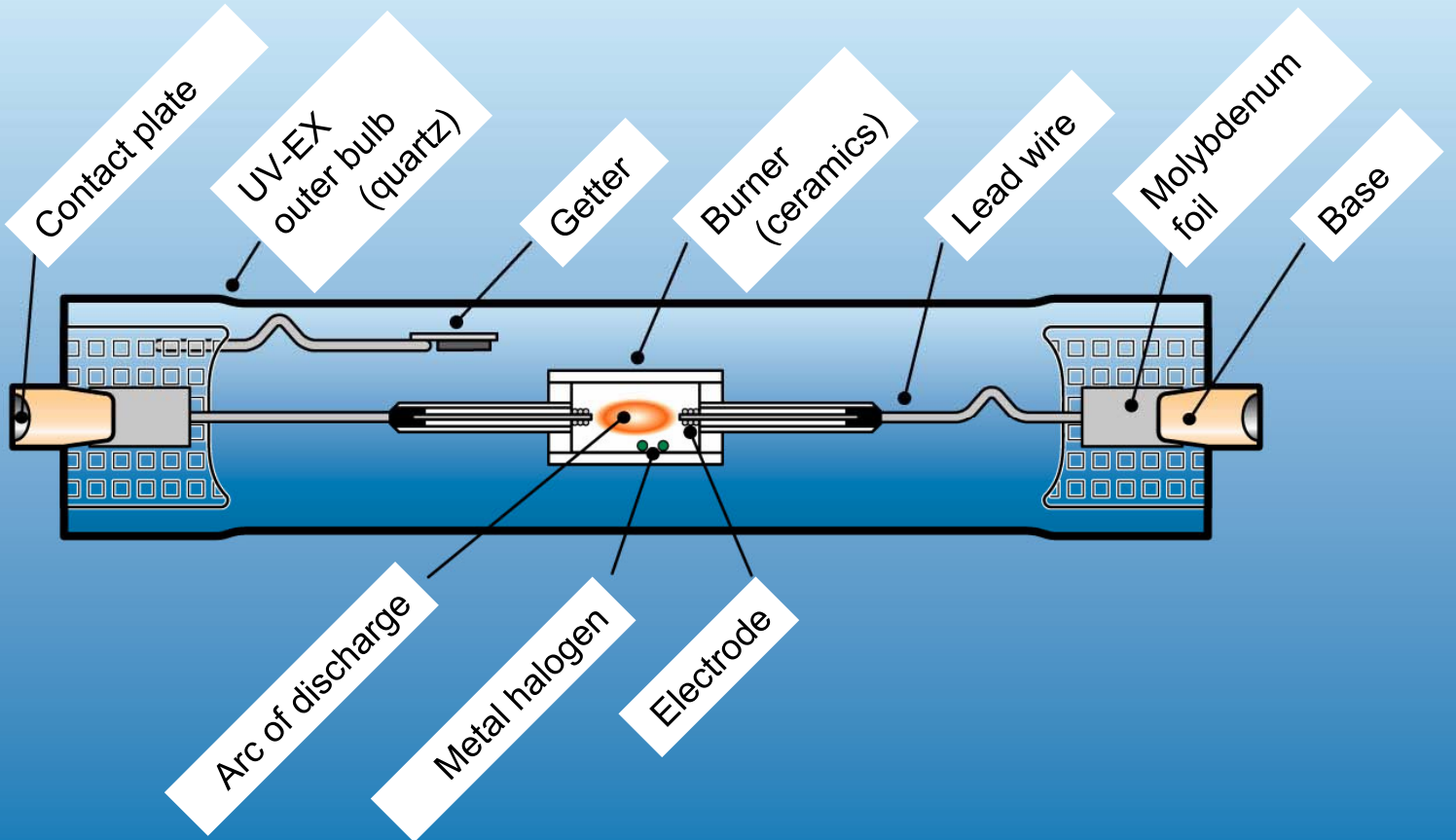
**High pressure-
discharge lamps**



Light technical data of HID - lamps

		HRL	HRI	RCI/ RCC	RNP	SOX
Wattage	W	50 - 1000	70 - 3500	20 - 250	50 - 1000	35 - 180
Luminous flux	klm	2 - 57	5,5 - 320	1,7 - 24	3,5 - 130	4,6 - 32
Luminous efficiency (lm/W)		35 - 60	65 - 110	85 - 100	70 - 150	120 - 180
Luminous colour		ww, nw	ww, nw, tw	ww, nw	ww	-
Colour temperature	K	2900 - 4200	3000 - 6000	3000 - 4200	2000 - 2200	-
Colour rendering						
Index	(RA)	45 - 60	65 - 95	85 - 95	20	-
Level		3	1 - 2B	1	4	-

RCI-TS 70W, 150W

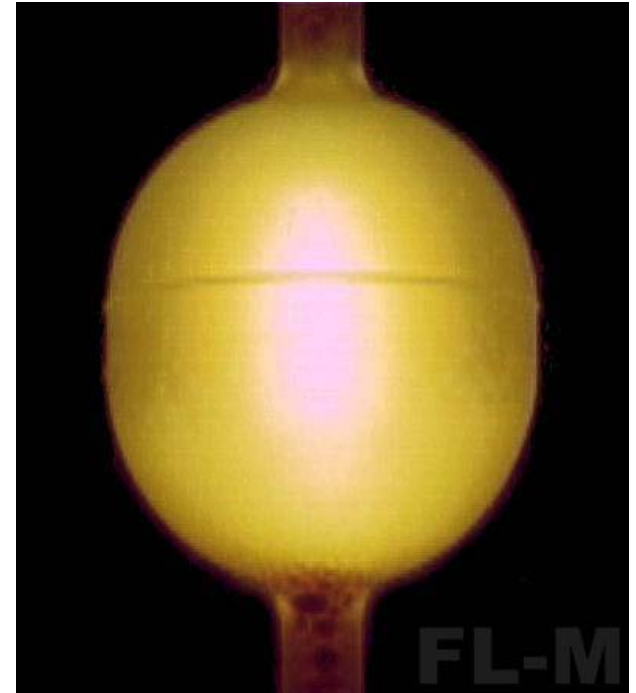


RCC; Ceraball new generation of ceramic metal halide lamps

RCI

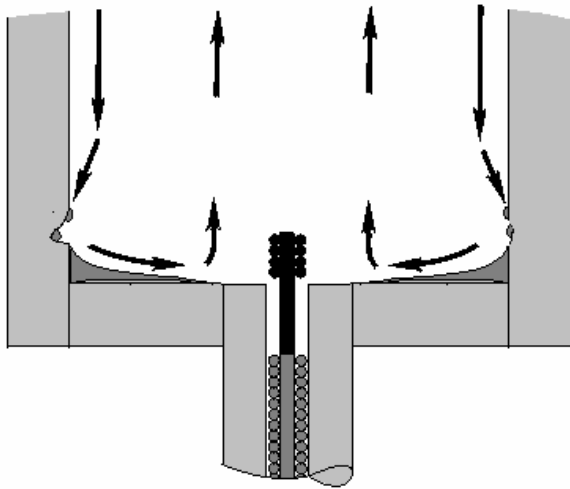


RCC; Ceraball

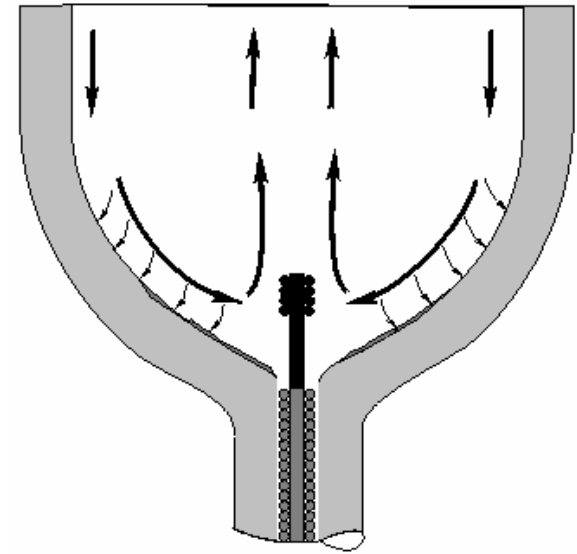


RCC; Ceraball new generation of ceramic metal halide lamps

RCI

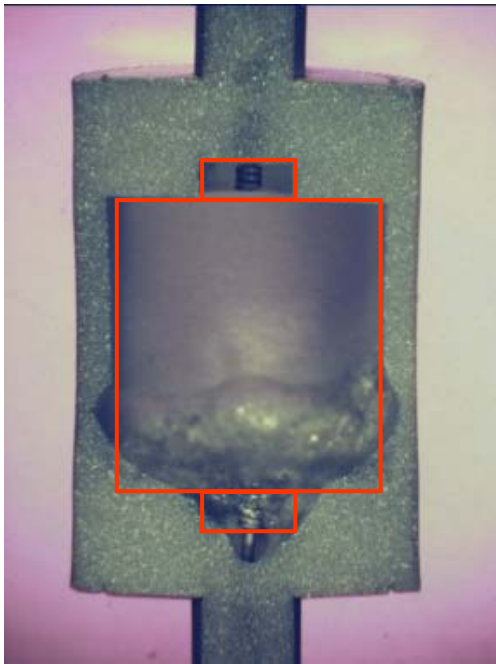


RCC; Ceraball



RCC; Ceraball new generation of ceramic metal halide lamps

RCI Cylindrical



**Failure after 8.900h caused
by ceramic corrosion**

RCC Ceraball



No failure after 16.000h



RCC; Ceraball new generation of ceramic metal halide lamps

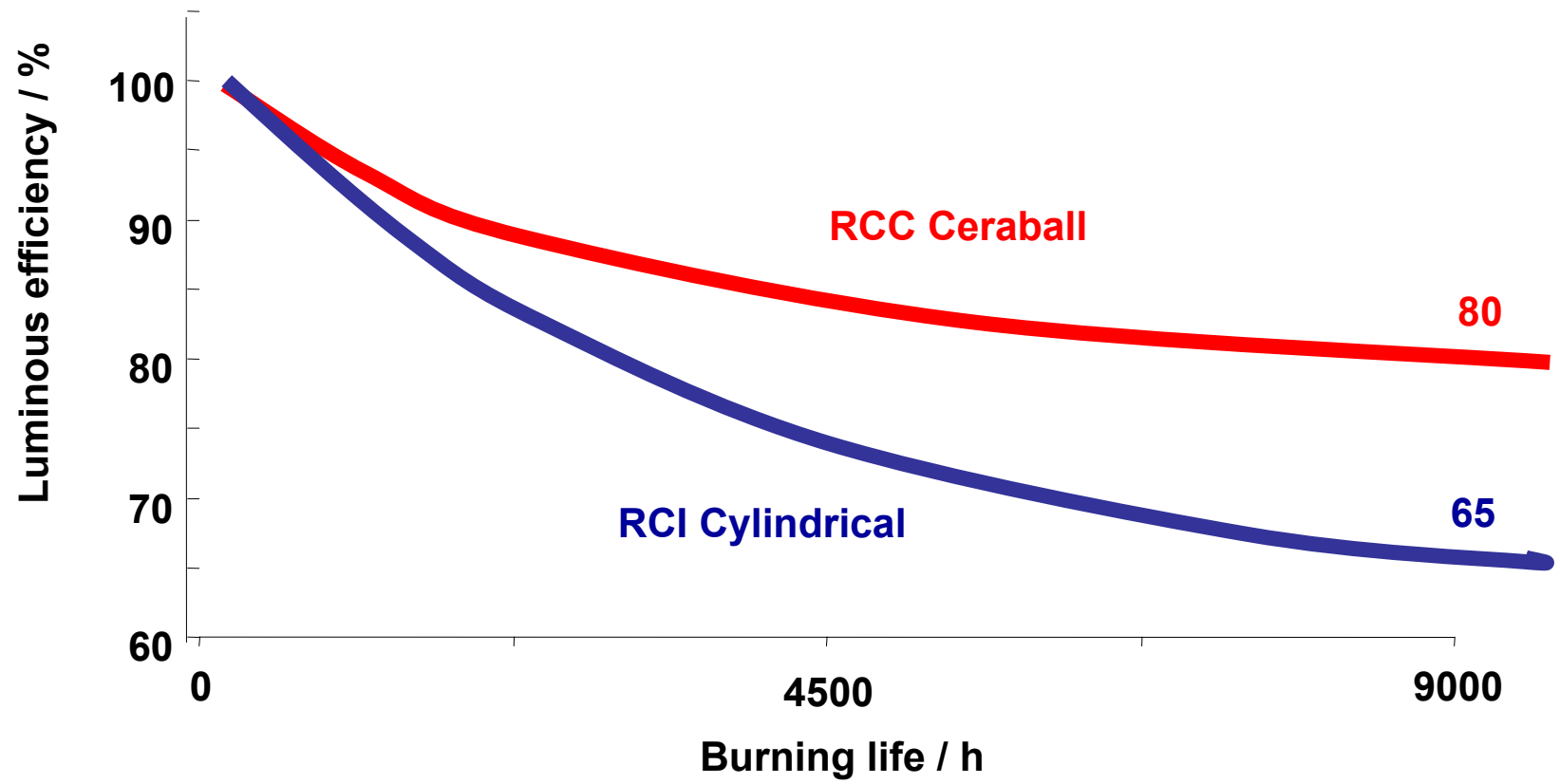
Advantages of the Ceraball in comparison to previous technology:

- better maintenance of luminous flux
- better constancy of colour
- better Ra (especially red)
- higher luminous efficiency
- lower dependence on burning position

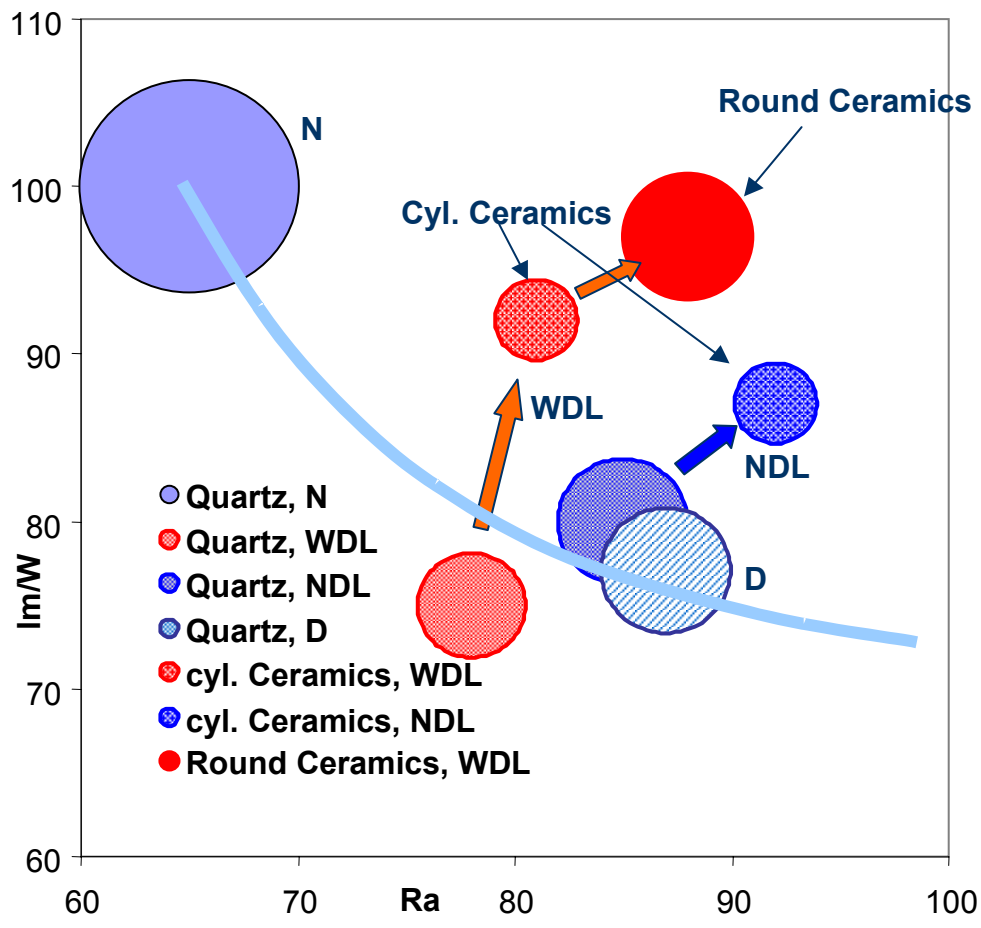


Performance of luminous flux

Luminous flux performance RCI and RCC Ceraball at CCG



RCC; Ceraball new generation comparison: HRI, RCI, RCC



- **Quartz burner- lamps:** improvements in the colour rendering will have a negative influence on the luminous flux
- **Lamps with cylindrical ceramic burner:** combines good colour rendering with high luminous flux
- **Lamps with round ceramic burner:** best colour rendering at highest luminous flux