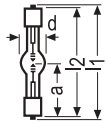


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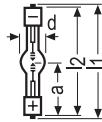
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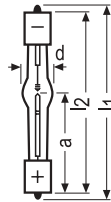
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Ordering Abbreviation	HBO 50 W AC L1	HBO 50 W AC L2	HBO 50 W/3	HBO 100 W/2	HBO 103 W/2
Product Number	69213	69214	69215	69217	69182
Watts (W)	50	50	50	100	100
Volts (V)	37	42	23	20	23
Type of Current	AC	AC	DC	DC	DC
Current (A)	1.45	1.3	2.3	5.0	4.3
Lumens (lm)	2000	2000	1300	2200	3000
Luminous Intensity (cd)	230	230	150	260	300
Average Luminance (cd/cm ²)	30000	30000	90000	170000	170000
Luminous Area – w x h (mm)	0.3 x 1.0	0.3 x 1.0	0.2 x 0.35	0.25 x 0.25	0.25 x 0.25
Luminous Efficacy (lm/W)	40	40	26	22	30
Length l ₁ max (mm)	53	53	53	90	90
Length l ₂ max (mm)	47	47	47	82	82
Distance a (mm)	22	22	22	43	43
Diameter d (mm)	8.5	8.5	9	10	10
Avg Rated Life (hrs)	100	100	200	200	300
Operating Position	s 45, anode down	s 45, anode down	s 45, anode down	s 90, anode down	s 90, anode down
Cooling	Convection	Convection	Convection	Convection	Convection
Base Anode	SFa6-2	SFa6-2	SFa6-2	SFa7.5-2	SFa7.5-2
Base Cathode	SFa6-2	SFa6-2	SFa8-2	SFa9-2	SFa9-2
Fig No	1	1	2	3	3
Symbols & Footnotes	6,60	6,60	6,60	6,60	6,60,61

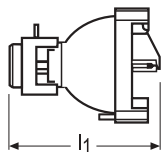
PHOTO OPTIC DISCHARGE

HBO® MERCURY SHORT ARC

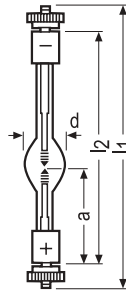
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Ordering Abbreviation	HBO R 103 W/45	HBO 200 W/2 L1	HBO 200 W/2 L2	HBO 200 W/2 TM L1	HBO 200 W/2 TM L2
Product Number	69311	69198	69222	69221	69223
Watts (W)	100	200	200	200	200
Volts (V)	23	61	53	47	47
Type of Current	DC	DC or AC	DC or AC	DC or AC	DC or AC
Current (A)	4.3				
Lumens (lm)		9500	9500	9500	9500
Luminous Intensity (cd)		1000	1000	1000	1000
Average Luminance (cd/cm ²)		40000	40000	40000	40000
Luminous Area – w x h (mm)		0.6 x 2.2	0.6 x 2.2	0.6 x 2.2	0.6 x 2.2
Luminous Efficacy (lm/W)		47.5	47.5	47.5	47.5
Length l ₁ max (mm)	81.50	128	128	128	128
Length l ₂ max (mm)		102	102	102	102
Distance a (mm)		40	40	40	40
Diameter d (mm)		17	17	17	17
Avg Rated Life (hrs)	300	400	400	400	200
Operating Position	p 15	s 45, anode down	s 45, anode down	s 45, anode down	s 45, anode down
Cooling	Convection	Convection	Convection	Convection	Convection
Base Anode	Pin	SFc10-4	SFc10-4	SFc10-4	SFc10-4
Base Cathode	Pin	SFc10-4	SFc10-4	SFc10-4	SFc10-4
Fig No	1	2	2	2	2
Symbols & Footnotes	35,62	6,60,63,64,65	6,60,63,64,65	6,60,66,67,68	6,60,66,67,68

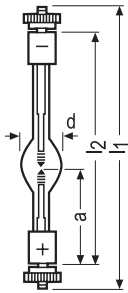
PHOTO OPTIC DISCHARGE

HBO® MERCURY SHORT ARC

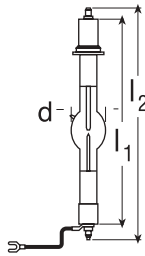
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Ordering Abbreviation	HBO 200 W/4	HBO 200 W/DC	HBO 201 W/HS-D2	HBO 202 W/4
Product Number	69224	69225	69168	69316
Watts (W)	200	200	200	200
Volts (V)	61	57	25	61
Type of Current	AC	DC	DC	AC
Current (A)	3.6	3.5	8	3.6
Lumens (lm)	9500	10000		
Luminous Intensity (cd)	1000	1100		1000
Average Luminance (cd/cm ²)	40000	40000		40000
Luminous Area – w x h (mm)	0.6 x 2.2	0.75 x 2.3		0.6 x 2.2
Luminous Efficacy (lm/W)	47.5	50		47.5
Length l_1 max (mm)	128	128	150	128
Length l_2 max (mm)	102	102	127	102
Distance a (mm)	40	40		40
Diameter d (mm)	17	17	20	17
Avg Rated Life (hrs)	200	1000	1000	200
Operating Position	s 45, anode down	s 15, anode down	Vertical, anode up	s 45, anode down
Cooling	Convection	Convection	Convection	Convection
Base Anode	SFc10-4	SFc10-4	SFcX32-22	SFc10-4
Base Cathode	SFc10-4	SFc10-4	SFcX12-4/15	SFc10-4
Fig No	1	1	2	1
Symbols & Footnotes	6,60,69	6,70	71	6,60,72