



# Display och optik

Ljus finns överallt omkring oss och ibland även på ställen och till ändamål vi inte alltid tänker på. Att man använder mycket belysning inom studio- och scenvärlden verkar nog inte så konstigt. Här är effektbelysning både viktigt och vanligt men OSRAM tillgodoser även belysningsbehov på många andra områden.

Text industri belysning såsom vattenrengöring, flygplatsbelysning och ljuskällor för professionell fotobearbetning. Även inom den medicinska världen spelar belysning en viktig roll: tandblekning, kirurgisk laser och mikroskopi är alla områden som kräver specialbelysning.

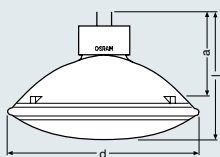
*Utöver DO-sortimentet i denna katalog har OSRAM många fler DO produkter. Dessa finner du i e-katalogen eller genom att ringa OSRAM.*



## Innehåll

|                                    |     |                                       |     |
|------------------------------------|-----|---------------------------------------|-----|
| PAR 64 Classic halogenlampor       | 148 | Ensidigt socklade                     | 150 |
| PAR 56 Classic halogenlampor       | 148 | STUDIOLINE®                           | 150 |
| aluPAR® 56 halogenlampor           | 148 | HMI® metallhalogenlampor              | 151 |
| aluPAR® 64 halogenlampor           | 149 | Baby SharXS® HTI® metallhalogenlampor | 151 |
| aluPAR® 64 halogenlampor           | 149 | XBO® Xenon                            | 152 |
| Halogenlampor, medium/hög spänning | 150 |                                       |     |

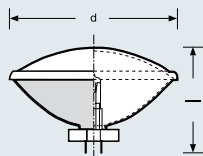
## PAR 64 Classic halogenlampor PAR 56 Classic halogenlampor



| Beskrivning                                    | E-nummer | EAN-kod               | W    | V   |         |       | t[h] | cd     |       | I max.<br>[mm] | a<br>[mm] |   |
|------------------------------------------------|----------|-----------------------|------|-----|---------|-------|------|--------|-------|----------------|-----------|---|
| <b>PAR 64 Classic – 3200K. Sockel GX16d</b>    |          |                       |      |     |         |       |      |        |       |                |           |   |
| 64737/3 VNSP                                   | –        | 4008321 <b>905727</b> | 1000 | 230 | 12°/9°  | GX16d | 300  | 320000 | 204   | 152,4          | 102       | 6 |
| 64737/4 VNSP                                   | –        | 4008321 <b>905741</b> | 1000 | 240 | 12°/9°  | GX16d | 300  | 320000 | 204   | 152,4          | 102       | 6 |
| 64738/3 NSP                                    | –        | 4008321 <b>905765</b> | 1000 | 230 | 14°/10° | GX16d | 300  | 270000 | 204   | 152,4          | 102       | 6 |
| 64738/4 NSP                                    | –        | 4008321 <b>905789</b> | 1000 | 240 | 14°/10° | GX16d | 300  | 270000 | 204   | 152,4          | 102       | 6 |
| 64739/3 MFL                                    | –        | 4008321 <b>905802</b> | 1000 | 230 | 22°/14° | GX16d | 300  | 125000 | 204   | 152,4          | 102       | 6 |
| 64739/4 MFL                                    | –        | 4008321 <b>905826</b> | 1000 | 240 | 22°/14° | GX16d | 300  | 125000 | 204   | 152,4          | 102       | 6 |
| <b>PAR 56 Classic - 300W, 12V. Skruvsocket</b> |          |                       |      |     |         |       |      |        |       |                |           |   |
| PAR56 300W 12V WFL                             | –        | 4008321 <b>362209</b> | 300  | 12  | 38°/20° | Skruv | 1200 | 11500  | 177,8 | 127            | –         | 6 |

- Utstrålningsvinkel: NSP = narrow spot, SP = spot, MFL = medium flood, FL = flood, WFL = wide flood

## aluPAR® 56 halogenlampor



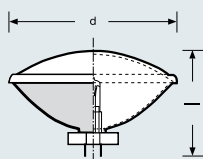
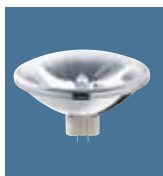
| Beskrivning              | E-nummer | EAN-kod               |  |  |  |  |  |  |  |  |  |
|--------------------------|----------|-----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| aluPAR® 56 – 300W, 2950K |          |                       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| aluPAR 56 NSP            | –        | 4008321 <b>108746</b> | 300                                                                                 | 120                                                                                 | 8°/9°                                                                               | GX16d                                                                               | 2000                                                                                | 68000                                                                                 | 177                                                                                   | 113                                                                                   | 6                                                                                     |
| aluPAR 56 MFL            | –        | 4008321 <b>108760</b> | 300                                                                                 | 120                                                                                 | 15°/17°                                                                             | GX16d                                                                               | 2000                                                                                | 24000                                                                                 | 177                                                                                   | 113                                                                                   | 6                                                                                     |
| aluPAR 56 WFL            | –        | 4008321 <b>108784</b> | 300                                                                                 | 120                                                                                 | 26°/27°                                                                             | GX16d                                                                               | 2000                                                                                | 11000                                                                                 | 177                                                                                   | 113                                                                                   | 6                                                                                     |
| aluPAR 56 NSP            | –        | 4008321 <b>107923</b> | 300                                                                                 | 230                                                                                 | 8°/9°                                                                               | GX16d                                                                               | 2000                                                                                | 70000                                                                                 | 177                                                                                   | 113                                                                                   | 6                                                                                     |
| aluPAR 56 MFL            | –        | 4008321 <b>107961</b> | 300                                                                                 | 230                                                                                 | 15°/17°                                                                             | GX16d                                                                               | 2000                                                                                | 30000                                                                                 | 177                                                                                   | 113                                                                                   | 6                                                                                     |
| aluPAR 56 WFL            | –        | 4008321 <b>108005</b> | 300                                                                                 | 230                                                                                 | 26°/27°                                                                             | GX16d                                                                               | 2000                                                                                | 10000                                                                                 | 177                                                                                   | 113                                                                                   | 6                                                                                     |
| aluPAR 56 NSP            | –        | 4008321 <b>107947</b> | 300                                                                                 | 240                                                                                 | 8°/9°                                                                               | GX16d                                                                               | 2000                                                                                | 70000                                                                                 | 177                                                                                   | 113                                                                                   | 6                                                                                     |
| aluPAR 56 MFL            | –        | 4008321 <b>107985</b> | 300                                                                                 | 240                                                                                 | 15°/17°                                                                             | GX16d                                                                               | 2000                                                                                | 30000                                                                                 | 177                                                                                   | 113                                                                                   | 6                                                                                     |
| aluPAR 56 WFL            | –        | 4008321 <b>108128</b> | 300                                                                                 | 240                                                                                 | 26°/27°                                                                             | GX16d                                                                               | 2000                                                                                | 10000                                                                                 | 177                                                                                   | 113                                                                                   | 6                                                                                     |

- Utstrålningsvinkel: NSP = narrow spot, SP = spot, MFL = medium flood, FL = flood, WFL = wide flood

| Beskrivning              | E-nummer | EAN-kod               | W   | V   |  |  | t[h] | cd    | <br>d [mm] | <br>I max.<br>[mm] |  |
|--------------------------|----------|-----------------------|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|-------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| aluPAR® 56 – 500W, 2950K |          |                       |     |     |                                                                                     |                                                                                     |      |       |                                                                                                 |                                                                                                         |                                                                                       |
| aluPAR 56 NSP            | –        | 4008321 <b>198068</b> | 500 | 120 | 11°/12°                                                                             | GX16d                                                                               | 4000 | 78000 | 177                                                                                             | 113                                                                                                     | 6                                                                                     |
| aluPAR 56 MFL            | –        | 4008321 <b>198082</b> | 500 | 120 | 17°/16°                                                                             | GX16d                                                                               | 4000 | 45000 | 177                                                                                             | 113                                                                                                     | 6                                                                                     |
| aluPAR 56 WFL            | –        | 4008321 <b>198105</b> | 500 | 120 | 25°/26°                                                                             | GX16d                                                                               | 4000 | 18000 | 177                                                                                             | 113                                                                                                     | 6                                                                                     |

- Utstrålningsvinkel: NSP = narrow spot, SP = spot, MFL = medium flood, FL = flood, WFL = wide flood

## aluPAR® 64 halogenlampor



### Beskrivning

### E-nummer

### EAN-kod

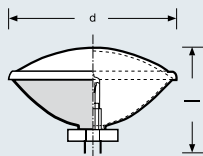
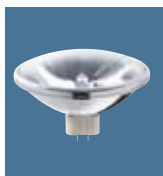


### aluPAR® 64, 500W, 2950K

|                              |   |               |     |     |         |       |      |        |     |     |   |
|------------------------------|---|---------------|-----|-----|---------|-------|------|--------|-----|-----|---|
| aluPAR 64 NSP                | – | 4008321205612 | 500 | 120 | 12°/7°  | GX16d | 2000 | 110000 | 203 | 150 | 6 |
| aluPAR 64 MFL                | – | 4008321205636 | 500 | 120 | 23°/11° | GX16d | 2000 | 37000  | 203 | 150 | 6 |
| aluPAR 64 WFL                | – | 4008321205650 | 500 | 120 | 55°/32° | GX16d | 2000 | 13000  | 203 | 150 | 6 |
| aluPAR 64 VNSP <sup>2)</sup> | – | 4008321341259 | 500 | 230 | 10°/7°  | GX16d | 300  | 240000 | 203 | 150 | 6 |
| aluPAR 64 NSP <sup>2)</sup>  | – | 4008321341273 | 500 | 230 | 11°/9°  | GX16d | 300  | 140000 | 203 | 150 | 6 |
| aluPAR 64 MFL <sup>2)</sup>  | – | 4008321341327 | 500 | 230 | 21°/10° | GX16d | 300  | 65000  | 203 | 150 | 6 |
| aluPAR 64 VNSP <sup>2)</sup> | – | 4008321341365 | 500 | 240 | 10°/7°  | GX16d | 300  | 240000 | 203 | 150 | 6 |
| aluPAR 64 NSP <sup>2)</sup>  | – | 4008321341389 | 500 | 240 | 11°/9°  | GX16d | 300  | 140000 | 203 | 150 | 6 |
| aluPAR 64 MFL <sup>2)</sup>  | – | 4008321341402 | 500 | 240 | 21°/10° | GX16d | 300  | 65000  | 203 | 150 | 6 |

- Utstrålningsvinkel: NSP = narrow spot, SP = spot, MFL = medium flood, FL = flood, WFL = wide flood

## aluPAR® 64 halogenlampor



### Beskrivning

### E-nummer

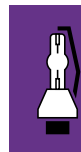
### EAN-kod



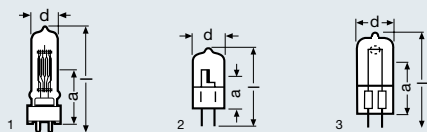
### aluPAR® 64 – 1000W, 3200K

|                |   |               |      |     |         |       |     |        |     |     |   |
|----------------|---|---------------|------|-----|---------|-------|-----|--------|-----|-----|---|
| aluPAR 64 VNSP | – | 4008321205698 | 1000 | 120 | 12°/6°  | GX16d | 800 | 400000 | 203 | 150 | 6 |
| aluPAR 64 NSP  | – | 4008321205735 | 1000 | 120 | 14°/7°  | GX16d | 800 | 330000 | 203 | 150 | 6 |
| aluPAR 64 MFL  | – | 4008321205759 | 1000 | 120 | 28°/12° | GX16d | 800 | 125000 | 203 | 150 | 6 |
| aluPAR 64 WFL  | – | 4008321355027 | 1000 | 120 | 48°/24° | GX16d | 800 | 40000  | 203 | 150 | 6 |
| aluPAR 64 VNSP | – | 4008321205773 | 1000 | 230 | 12°/9°  | GX16d | 300 | 352000 | 203 | 150 | 6 |
| aluPAR 64 NSP  | – | 4008321205797 | 1000 | 230 | 14°/10° | GX16d | 300 | 297000 | 203 | 150 | 6 |
| aluPAR 64 MFL  | – | 4008321205858 | 1000 | 230 | 24°/11° | GX16d | 300 | 138000 | 203 | 150 | 6 |
| aluPAR 64 WFL  | – | 4008321341921 | 1000 | 230 | 57°/21° | GX16d | 300 | 38000  | 203 | 150 | 6 |
| aluPAR 64 VNSP | – | 4008321205872 | 1000 | 240 | 12°/9°  | GX16d | 300 | 352000 | 203 | 150 | 6 |
| aluPAR 64 NSP  | – | 4008321205896 | 1000 | 240 | 14°/10° | GX16d | 300 | 297000 | 203 | 150 | 6 |
| aluPAR 64 MFL  | – | 4008321205919 | 1000 | 240 | 24°/11° | GX16d | 300 | 138000 | 203 | 150 | 6 |
| aluPAR 64 WFL  | – | 4008321341945 | 1000 | 240 | 57°/21° | GX16d | 300 | 38000  | 203 | 150 | 6 |

- Utstrålningsvinkel: NSP = narrow spot, SP = spot, MFL = medium flood, FL = flood, WFL = wide flood



## Halogenlampor, medium/hög spänning Ensidigt socklade



| Beskrivning                               | E-nummer | EAN-kod               | W   | V   |        | t [h] | K    | lm   |           | $\frac{l_{max}}{d}$ [mm] | $\frac{l_{max}}{d}$ [mm] |    |     |
|-------------------------------------------|----------|-----------------------|-----|-----|--------|-------|------|------|-----------|--------------------------|--------------------------|----|-----|
| <b>Halogenlampor, medium/hög spänning</b> |          |                       |     |     |        |       |      |      |           |                          |                          |    | No. |
| <b>Ensidigt socklade</b>                  |          |                       |     |     |        |       |      |      |           |                          |                          |    |     |
| 64501                                     | –        | 4050300 <b>279237</b> | 150 | 120 | GX6.35 | 25    | 3400 | 4500 | 12        | max. 55                  | 30                       | 25 | 2   |
| 64502                                     | –        | 4050300 <b>289977</b> | 150 | 230 | GX6.35 | 25    | 3400 | 4000 | 12        | 55                       | 30                       | 25 | 2   |
| 64505 <sup>2)</sup>                       | –        | 4008321 <b>098436</b> | 200 | 230 | GX6.35 | 25    | 3200 | 5100 | max. 18,5 | max. 53                  | 27                       | 12 | 3   |
| 64505 <sup>2)</sup>                       | –        | 4008321 <b>098610</b> | 200 | 240 | GX6.35 | 25    | 3200 | 5150 | max. 18,5 | max. 53                  | 27                       | 12 | 3   |
| 64512 <sup>2)</sup>                       | –        | 4008321 <b>098634</b> | 300 | 120 | GX6.35 | 15    | 3350 | 9300 | max. 18,5 | max. 53                  | 27                       | 12 | 3   |
| 64514 <sup>2)</sup>                       | –        | 4008321 <b>098672</b> | 300 | 120 | GX6.35 | 75    | 3200 | 8100 | max. 18,5 | max. 53                  | 27                       | 12 | 3   |
| 64515 <sup>2)</sup>                       | –        | 4008321 <b>098696</b> | 300 | 230 | GX6.35 | 15    | 3300 | 9600 | max. 18,5 | max. 53                  | 27                       | 12 | 3   |
| 64515 <sup>2)</sup>                       | –        | 4008321 <b>098719</b> | 300 | 240 | GX6.35 | 15    | 3300 | 8900 | max. 18,5 | max. 53                  | 27                       | 12 | 3   |
| 64516 <sup>2)</sup>                       | –        | 4008321 <b>098733</b> | 300 | 230 | GX6.35 | 75    | 3100 | 7400 | max. 18,5 | max. 53                  | 27                       | 12 | 3   |
| 64516 <sup>2)</sup>                       | –        | 4008321 <b>098757</b> | 300 | 240 | GX6.35 | 75    | 3100 | 7300 | max. 18,5 | max. 53                  | 27                       | 12 | 3   |
| 64662                                     | –        | 4008321 <b>097873</b> | 300 | 230 | GY9.5  | 2000  | 2900 | 5000 | 15        | 80                       | 46,5                     | 12 | 1   |
| 64662 <sup>1)</sup>                       | –        | 4008321 <b>097897</b> | 300 | 240 | GY9.5  | 2000  | 2900 | 5000 | 15        | 80                       | 46,5                     | 12 | 1   |

1) På förfrågan

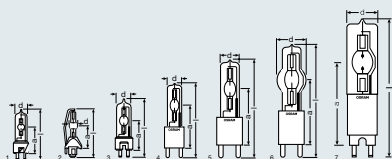
2) Med kvartsteknologi

## STUDIOLINE®



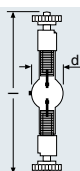
| Beskrivning          | E-nummer | EAN-kod               | W  | lm   | K    | t [h] |      |    |
|----------------------|----------|-----------------------|----|------|------|-------|------|----|
| <b>STUDIOLINE®</b>   |          |                       |    |      |      |       |      |    |
| STUDIOLINE 55 W/3200 | –        | 4050300 <b>575292</b> | 55 | 3800 | 3200 | 8000  | 2G11 | 10 |
| STUDIOLINE 55 W/5600 | –        | 4050300 <b>575278</b> | 55 | 3800 | 5600 | 8000  | 2G11 | 10 |

## HMI® metallhalogenlampor



| Beskrivning                                                | E-nummer | EAN-kod               | W     | V   |        | lm      | $\frac{l_{max.}}{[mm]}$ | $\frac{\phi}{[mm]}$ | $\frac{a}{[mm]}$ | t [h] | No. |
|------------------------------------------------------------|----------|-----------------------|-------|-----|--------|---------|-------------------------|---------------------|------------------|-------|-----|
| <b>HMI® metallhalogenlampor, ensidigt socklade, 6000 K</b> |          |                       |       |     |        |         |                         |                     |                  |       |     |
| HMI 200 W/SE                                               | –        | 4050300 <b>307961</b> | 200   | 70  | GZY9.5 | 16000   | 80                      | 20                  | 39               | 200   | 1   |
| HMI 250 W/SE                                               | –        | 4050300 <b>239064</b> | 270   | 50  | FaX1.5 | 16200   | 84                      | 12                  | 35               | 250   | 2   |
| HMI 400 W/SE                                               | –        | 4050300 <b>388441</b> | 400   | 70  | GZZ9.5 | 33000   | 110                     | 23                  | 60               | 650   | 3   |
| HMI 575 W/SEL XS                                           | –        | 4050300 <b>603100</b> | 575   | 95  | G22    | 49000   | 145                     | 30                  | 70               | 1000  | 4   |
| HMI 700 W/SE XS                                            | –        | 4008321 <b>191601</b> | 700   | 100 | G22    | 56000   | 145                     | 30                  | 70               | 750   | 4   |
| HMI 1200 W/SEL XS                                          | –        | 4008321 <b>062109</b> | 1200  | 100 | G38    | 110000  | 200                     | 42                  | 107              | 1000  | 5   |
| HMI 2500 W/SE XS                                           | –        | 4050300 <b>284293</b> | 2500  | 115 | G38    | 240000  | 225                     | 60                  | 127              | 500   | 6   |
| HMI 4000 W/SE XS                                           | –        | 4008321 <b>244314</b> | 4000  | 200 | G38    | 380000  | 250                     | 75                  | 142              | 500   | 6   |
| HMI 6000 W/SE XS                                           | –        | 4050300 <b>564067</b> | 6000  | 123 | GX38   | 600000  | 360                     | 75                  | 210              | 500   | 7   |
| HMI 12000 W/SE XS                                          | –        | 4050300 <b>650418</b> | 12000 | 160 | GX38   | 1150000 | 450                     | 100                 | 255              | 300   | 7   |
| HMI 12000 W/SE/GX51 XS                                     | –        | 4008321 <b>098962</b> | 12000 | 160 | GX51   | 1150000 | 455                     | 100                 | 260              | 300   | 7   |
| HMI 18000 W/SE/GX51 XS                                     | –        | 4008321 <b>098955</b> | 18000 | 232 | GX51   | 1600000 | 495                     | 100                 | 260              | 300   | 7   |

## Baby SharXS® HTI® metallhalogenlampor

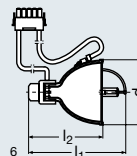
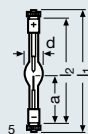
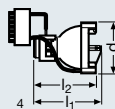
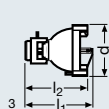
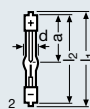
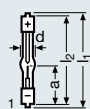


| Beskrivning                               | E-nummer | EAN-kod               | W   | V   |       | K    | R <sub>a</sub> | t [h] | $\frac{l_{max.}}{[mm]}$ | $\frac{\phi}{[mm]}$ | $\frac{a}{[mm]}$ |
|-------------------------------------------|----------|-----------------------|-----|-----|-------|------|----------------|-------|-------------------------|---------------------|------------------|
| <b>Baby SharXS® HTI®. Sockel SFc10-4.</b> |          |                       |     |     |       |      |                |       |                         |                     |                  |
| Baby SharXS HTI 250W/D5/80                | –        | 4008321 <b>129161</b> | 250 | 90  | 19000 | 8000 | > 85           | 3000  | 93                      | 16                  | 35               |
| Baby SharXS HTI 300W/D5/57                | –        | 4008321 <b>129185</b> | 300 | 80  | 20000 | 5700 | > 85           | 3000  | 93                      | 16                  | 35               |
| Baby SharXS HTI 300W/D5/65                | –        | 4008321 <b>129208</b> | 300 | 100 | 22000 | 6500 | > 85           | 750   | 93                      | 16                  | 35               |
| Baby SharXS HTI 400W/D5/60                | –        | 4008321 <b>129321</b> | 400 | 100 | 33000 | 6000 | > 85           | 750   | 93                      | 16                  | 35               |
| Baby SharXS HTI 575W/D5/56                | –        | 4008321 <b>129345</b> | 575 | 97  | 43000 | 5600 | > 85           | 500   | 93                      | 16                  | 35               |
| Baby SharXS HTI 575W/D5/75                | –        | 4008321 <b>129369</b> | 575 | 97  | 43000 | 7500 | > 85           | 750   | 93                      | 16                  | 35               |

- Enbart för drift i speciell apparatur



## XBO® Xenon



### Beskrivning

E-nummer

EAN-kod

W

V

A

lm

cd

l<sub>t</sub> [h]

d [mm]

l<sub>1</sub> max.  
[mm]

l<sub>2</sub> max.  
[mm]

a [mm]

SFa9-2

SFa7.5-2

No.

### XBO® Xenon

|                      |   |                       |     |      |      |      |     |      |      |      |      |      |         |          |     |
|----------------------|---|-----------------------|-----|------|------|------|-----|------|------|------|------|------|---------|----------|-----|
| XBO 75 W/2           | – | 4050300 <b>508801</b> | 75  | 14   | 5,4  | 1000 | 100 | 400  | 10   | 90   | 82   | 37   | SFa9-2  | SFa7.5-2 | 1   |
| XBO 100 W OFR        | – | 4050300 <b>508429</b> | 100 | 14   | 7,2  | 1900 | 270 | 500  | 11   | 90   | 82   | 44,5 | SFa9-2  | SFa7.5-2 | 2   |
| XBO R 100 W/45 OFR   | – | 4050300 <b>317205</b> | 100 | 13   | 7,2  | –    | –   | –    | 67   | 83   | 77   | –    | –       | –        | 3/4 |
| XBO 150 W/1          | – | 4050300 <b>015804</b> | 150 | 25   | 7,5  | 3000 | 300 | 1200 | 20   | 150  | 127  | 57   | SFc12-4 | SFcX12-4 | 5   |
| XBO 150 W/CR OFR     | – | 4050300 <b>508788</b> | 150 | 16,5 | 8,5  | 2900 | 290 | 3000 | 20   | 150  | 127  | 57   | SFc12-4 | SFcX12-4 | 5   |
| XBO R 180 W/45 OFR   | – | 4050300 <b>432175</b> | 180 | 14   | 12   | –    | –   | –    | 67   | 90,5 | 81,5 | –    | –       | –        | 3/4 |
| XBO R 300 W/60 C OFR | – | 4050300 <b>857749</b> | 300 | 18   | 16,5 | –    | –   | –    | 82,5 | 110  | 80   | –    | –       | –        | 6   |

- Enbart för drift i speciell apparatur





Pressbild KDT

# Kungliga Dramatiska Teatern

Ljus och färger tycks leva ett eget liv på Dramatens scen. Ömsom ackompanjeras scenografin av stillsamma skiftningar, ömsom exploderar scenen i ljusfenomen som driver handlingen till nya dimensioner. När klassiska öden och frågor ställs på sin spets sker det i ljuset av den senaste ljus-tekniken från OSRAM.

SE VÄRLDEN I ETT NYTT LJUS

**OSRAM**

