

OSRAM DECOSTAR® Halogen Lamps



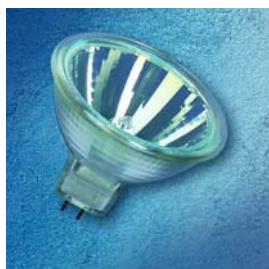
DECOSTAR® IRC (Infrared Reflective Coating) - Long life energy saving lamps

- High luminous efficacy of up to 25 lm/W
- Up to 45% lower energy consumption compared with a standard dichroic lamp of the same brightness
- 4000 hours average rated life
- Long life coating on reflector ensures constant luminous intensity and colour location throughout life
- Integrated cover-glass – can be used in open fittings
- Colour temperature 3100K



DECOSTAR® TITAN

- 4000 hours average rated life
- Long life coating on reflector ensures constant luminous intensity and colour location throughout life
- Integrated cover-glass – can be used in open fittings
- Colour temperature 3100K



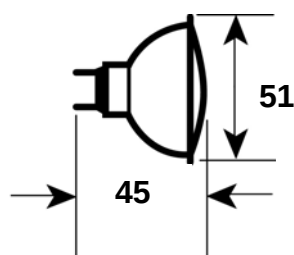
DECOSTAR® 51S

- 2000 hours average rated life
- Integrated cover-glass – can be used in open fittings
- Good price/performance ratio
- Colour temperature 3000K



DECOSTAR® 51

- 2000 hours average rated life
- Open face lamp without cover glass
- Low pressure design - can be used in open fittings
- Good price/performance ratio
- Colour temperature 3000K



Dimensions

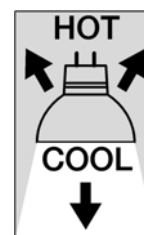
DECOSTAR® features



UV Filter as standard



Can be used in open luminaires



Cool beam

DECOSTAR® IRC – 4000 hour*

0.05m	
51840 lx 0.09m	0.3m
23040 lx	0.5m
0.17m	
6000 lx	1.0m
0.35m	
1500 lx	2.0m

48860 SP
20W 10° 6000cd

0.09m	
48000 lx 0.17m	0.5m
12500 lx	1.0m
0.35m	
3125 lx	2.0m
0.52m	
1400 lx	3.0m

48865 SP
35W 10° 12500cd

0.09m	
57600 lx 0.17m	0.5m
15000 lx	1.0m
0.35m	
3750 lx	2.0m
0.52m	
1670 lx	3.0m

48870 SP
50W 10° 15000cd

0.13m	
20000 lx 0.21m	0.3m
8800 lx	0.5m
0.43m	
2300 lx	1.0m
0.85m	
570 lx	2.0m

48860 FL
20W 24° 2300cd

0.21m	
16900 lx 0.43m	0.5m
4400 lx	1.0m
0.85m	
1100 lx	2.0m
1.28m	
490 lx	3.0m

48865 FL
35W 24° 4400cd

0.21m	
21900 lx 0.43m	0.5m
5700 lx	1.0m
0.85m	
1425 lx	2.0m
1.28m	
630 lx	3.0m

48870 FL
50W 24° 5700cd

0.21m	
8700 lx 0.34m	0.3m
3840 lx	0.5m
0.69m	
1000 lx	1.0m
1.38m	
250 lx	2.0m

48860 WFL
20W 38° 1000cd

0.21m	
19000 lx 0.34m	0.3m
8500 lx	0.5m
0.69m	
2200 lx	1.0m
1.38m	
550 lx	2.0m

48865 WFL
35W 38° 2200cd

0.21m	
25000 lx 0.34m	0.3m
11000 lx	0.5m
0.69m	
2850 lx	1.0m
1.38m	
713lx	2.0m

48870 WFL
50W 38° 2850cd

0.35m	
3900 lx 0.58m	0.3m
1730 lx	0.5m
1.15m	
450 lx	1.0m
2.31m	
113 lx	2.0m

48860 VWFL
20W 60° 450cd

0.35m	
9500 lx 0.58m	0.3m
4250 lx	0.5m
1.15m	
1100 lx	1.0m
2.31m	
275 lx	2.0m

48865 VWFL
35W 60° 1100cd

0.35m	
12400 lx 0.58m	0.3m
5500 lx	0.5m
1.15m	
1430 lx	1.0m
2.31m	
360 lx	2.0m

48870 VWFL
50W 60° 1430cd

* denotes average rated life

DECOSTAR® TITAN – 4000 hour*

0.05m	
43200 lx	0.3m
0.09m	
19200 lx	0.5m
0.17m	
5000 lx	1.0m
0.35m	
1250 lx	2.0m

46860 SP
20W 10° 5000cd

0.09m	
35000 lx	0.5m
0.17m	
9100 lx	1.0m
0.35m	
2275 lx	2.0m
0.52m	
1010 lx	3.0m

46865 SP
35W 10° 9100cd

0.09m	
48000 lx	0.5m
0.17m	
12500 lx	1.0m
0.35m	
3125 lx	2.0m
0.52m	
1390 lx	3.0m

46870 SP
50W 10° 12500cd

Refer to DECOSTAR IRC
(DECOSTAR TITAN 20W
24° lamp not available)

0.21m	
11900 lx	0.5m
0.43m	
3100 lx	1.0m
0.85m	
775 lx	2.0m
1.28m	
340 lx	3.0m

46865 FL
35W 24° 3100cd

0.21m	
16900 lx	0.5m
0.43m	
4400 lx	1.0m
0.85m	
1100 lx	2.0m
1.28m	
490 lx	3.0m

46870 FL
50W 24° 4400cd

0.21m	
6750 lx	0.3m
0.34m	
3000 lx	0.5m
0.69m	
780 lx	1.0m
1.38m	
195 lx	2.0m

46860 WFL
20W 38° 780cd

0.21m	
13000 lx	0.3m
0.34m	
5780 lx	0.5m
0.69m	
1500 lx	1.0m
1.38m	
375 lx	2.0m

46865 WFL
35W 38° 1500cd

0.21m	
19000 lx	0.3m
0.34m	
8450 lx	0.5m
0.69m	
2200 lx	1.0m
1.38m	
550 lx	2.0m

46870 WFL
50W 38° 2200cd

0.35m	
3000 lx	0.3m
0.58m	
1340 lx	0.5m
1.15m	
350 lx	1.0m
2.31m	
88 lx	2.0m

46860 VWFL
20W 60° 350cd

0.35m	
6050 lx	0.3m
0.58m	
2700 lx	0.5m
1.15m	
700 lx	1.0m
2.31m	
175 lx	2.0m

46865 VWFL
35W 60° 700cd

0.35m	
9500 lx	0.3m
0.58m	
4220 lx	0.5m
1.15m	
1100 lx	1.0m
2.31m	
275 lx	2.0m

46870 VWFL
50W 60° 1100cd

* denotes average rated life

DECOSTAR® 51S – 2000 hour*

0.05m	
26000 lx	0.3m
0.09m	
11520 lx	0.5m
0.17m	
3000 lx	1.0m
0.35m	
750 lx	2.0m

44860 SP
20W 10° 3000cd

Refer to DECOSTAR IRC
(DECOSTAR 51S 20W
24° lamp not available)

0.09m	
23040 lx	0.5m
0.17m	
6000 lx	1.0m
0.35m	
1500 lx	2.0m
0.52m	
670 lx	3.0m

44865 SP
35W 10° 6000cd

Refer to DECOSTAR IRC
or DECOSTAR TITAN
(DECOSTAR 51S 35W
24° lamp not available)

0.09m	
30000 lx	0.5m
0.17m	
7800 lx	1.0m
0.35m	
1950 lx	2.0m
0.52m	
870 lx	3.0m

44870 SP
50W 10° 7800cd

Refer to DECOSTAR IRC
or DECOSTAR TITAN
(DECOSTAR 51S 50W
24° lamp not available)

0.21m	
4150 lx	0.3m
0.34m	
1850 lx	0.5m
0.69m	
480 lx	1.0m
1.38m	
120 lx	2.0m

44860 WFL
20W 38° 480cd

Refer to DECOSTAR IRC
or DECOSTAR TITAN
(DECOSTAR 51S 20W
60° lamp not available)

0.21m	
8700 lx	0.3m
0.34m	
3840 lx	0.5m
0.69m	
1000 lx	1.0m
1.38m	
250 lx	2.0m

44865 WFL
35W 38° 1000cd

Refer to DECOSTAR IRC
or DECOSTAR TITAN
(DECOSTAR 51S 35W
60° lamp not available)

0.21m	
12530 lx	0.3m
0.34m	
5570 lx	0.5m
0.69m	
1450 lx	1.0m
1.38m	
360 lx	2.0m

44870 WFL
50W 38° 1450cd

0.35m	
6250 lx	0.3m
0.58m	
2750 lx	0.5m
1.15m	
720 lx	1.0m
2.31m	
180 lx	2.0m

44870 VWFL
50W 60° 720cd

* denotes average rated life

DECOSTAR® 51 – 2000 hour*

0.05m	
27200 lx	0.3m
0.09m	
12100 lx	0.5m
0.17m	
3150 lx	1.0m
0.35m	
790 lx	2.0m

41860 SP
20W 10° 3150cd

0.21m	
4400 lx	0.3m
0.34m	
1960 lx	0.5m
0.69m	
510 lx	1.0m
1.38m	
130 lx	2.0m

41860 WFL
20W 38° 510cd

0.21m	
9070 lx	0.3m
0.34m	
4032 lx	0.5m
0.69m	
1050 lx	1.0m
1.38m	
270 lx	2.0m

41865 WFL
35W 38° 1050cd

0.09m	
31500 lx	0.5m
0.17m	
8200 lx	1.0m
0.35m	
2050 lx	2.0m
0.52m	
910 lx	3.0m

41870 SP
50W 10° 8200cd

0.21m	
13000 lx	0.3m
0.34m	
5760 lx	0.5m
0.65m	
1500 lx	1.0m
1.38m	
375 lx	2.0m

41870 WFL
50W 38° 1500cd

0.35m	
6950 lx	0.3m
0.58m	
3050 lx	0.5m
1.15m	
800 lx	1.0m
2.31m	
200 lx	2.0m

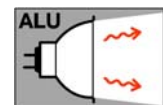
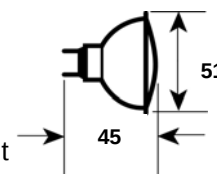
41870 VWFL
50W 60° 800cd

DECOSTAR® ALU – 3000 hour*



- Aluminium-coated reflector
- No cover glass
- Can be used in open luminaires

The aluminium-coated reflector without a shield reduces the thermal load in luminaires by about 80% compared with dichroic reflectors with a shield



0.21m	
6050 lx	0.3m
0.34m	
2700 lx	0.5m
0.69m	
700 lx	1.0m
1.38m	
175 lx	2.0m

41861 WFL
20W 38° 700cd

0.21m	
9500 lx	0.3m
0.34m	
4230 lx	0.5m
0.69m	
1100 lx	1.0m
1.38m	
275 lx	2.0m

41866 WFL
35W 38° 1100cd

0.21m	
15600 lx	0.3m
0.34m	
7000 lx	0.5m
0.69m	
1800 lx	1.0m
1.38m	
450 lx	2.0m

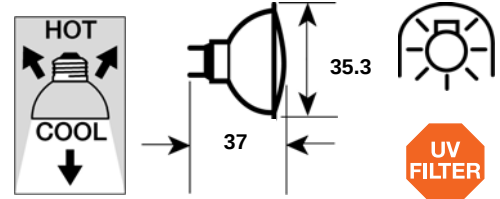
41871 WFL
50W 38° 1800cd

* denotes average rated life

OSRAM 35mm DECOSTAR® Halogen Lamps



- Only 35mm in diameter (MR11)
- Dichroic reflector
- Cover glass as standard
- Can be used in open luminaires
- GU4 base



DECOSTAR® 35 TITAN – 4000 hour*

0.09m	
17300 lx	0.5m
0.17m	
4500 lx	1.0m
0.35m	2.0m
1130 lx	
0.52m	3.0m
500 lx	

46890 SP
20W 10° 4500cd

0.09m	
27650 lx	0.5m
0.17m	
7200 lx	1.0m
0.35m	2.0m
1800 lx	
0.52m	3.0m
800 lx	

46892 SP
35W 10° 7200cd

Offers all the advantages of a TITAN lamp!

0.34m	
2700 lx	0.5m
0.69m	
700 lx	1.0m
1.38m	2.0m
175 lx	
2.07m	3.0m
78 lx	

46890 WFL
20W 38° 700cd

0.34m	
5200 lx	0.5m
0.69m	
1350 lx	1.0m
1.38m	2.0m
340 lx	
2.07m	3.0m
150 lx	

46892 WFL
35W 38° 1350cd

It's easy to calculate the Lux [E] for a specific height:

$$E = \frac{\text{Luminous intensity [cd]}}{(\text{Distance in metres [m]})^2}$$

Eg, if the height is 2.7m and the luminous intensity is 1350cd:

$$E = \frac{1350}{2.7^2} = 185 \text{ lux}$$

DECOSTAR® 35 – 2000 hour*

0.09m	
20750 lx	0.5m
0.17m	
5400 lx	1.0m
0.35m	2.0m
1350 lx	
0.52m	3.0m
600 lx	

44892 SP
35W 10° 5400cd

0.21m	
4320 lx	0.3m
0.34m	
1920 lx	0.5m
0.69m	1.0m
500 lx	
1.38m	2.0m
125 lx	

44890 WFL
20W 38° 500cd

0.34m	
3460 lx	0.5m
0.69m	
900 lx	1.0m
1.38m	2.0m
225 lx	
2.07m	3.0m
100 lx	

44892 WFL
35W 38° 900cd

* denotes average rated life