

## OSRAM DECOSTAR® Halogen Lamps



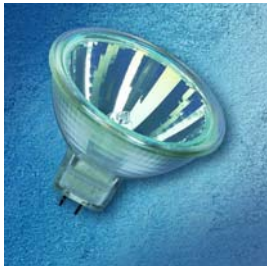
### DECOSTAR® IRC (Infrared Reflective Coating) - Long life energy saving lamps

- 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



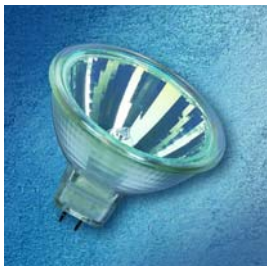
### DECOSTAR® TITAN

- 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



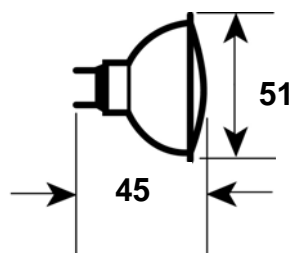
### DECOSTAR® 51S

- 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

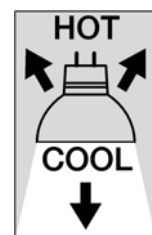
### DECOSTAR® features



UV Filter as standard



Can be used in open luminaires



Cool beam

## DECOSTAR<sup>®</sup> IRC – 4000 hour\*

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

**48860 SP**  
20W 10° 6000cd

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

**48865 SP**  
35W 10° 12500cd

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

**48870 SP**  
50W 10° 15000cd

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

**48860 FL**  
20W 24° 2300cd

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

**48865 FL**  
35W 24° 4400cd

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

**48870 FL**  
50W 24° 5700cd

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

**48860 WFL**  
20W 38° 1000cd

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

**48865 WFL**  
35W 38° 2200cd

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

**48870 WFL**  
50W 38° 2850cd

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

**48860 VWFL**  
20W 60° 450cd

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

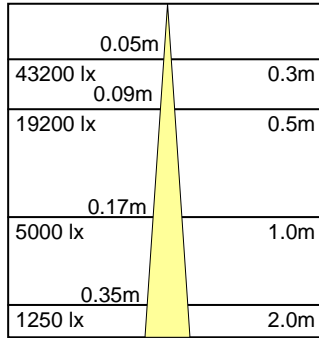
**48865 VWFL**  
35W 60° 1100cd

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

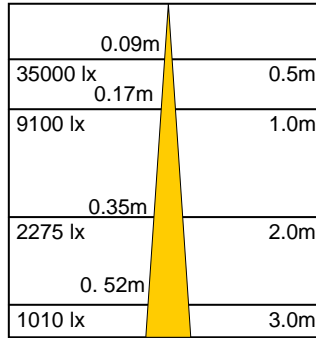
**48870 VWFL**  
50W 60° 1430cd

\* denotes average rated life

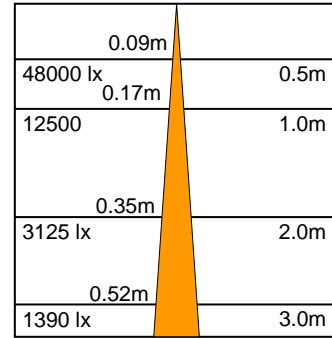
## DECOSTAR<sup>®</sup> TITAN – 4000 hour\*



**46860 SP**  
20W 10° 5000cd

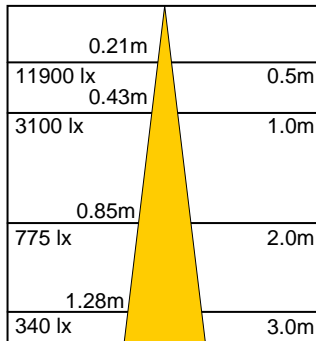


**46865 SP**  
35W 10° 9100cd

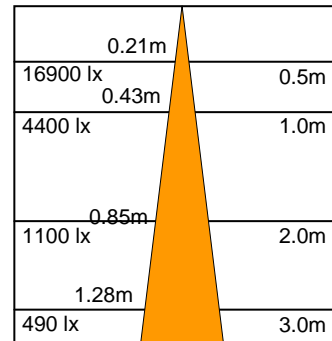


**46870 SP**  
50W 10° 12500cd

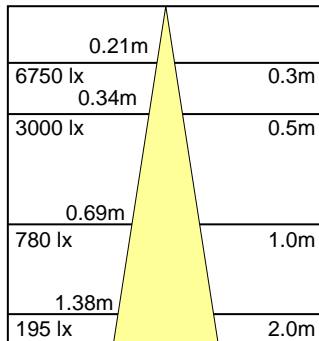
Refer to DECOSTAR IRC  
(DECOSTAR TITAN 20W  
24° lamp not available)



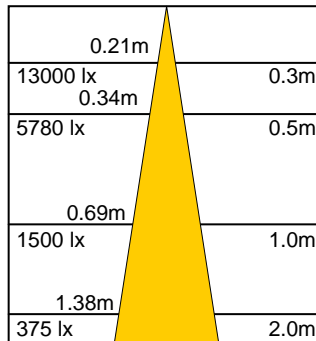
**46865 FL**  
35W 24° 3100cd



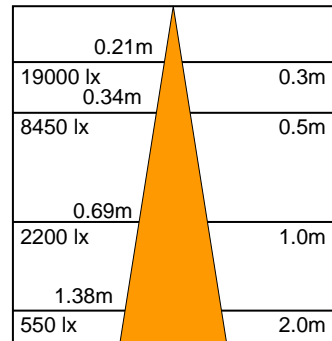
**46870 FL**  
50W 24° 4400cd



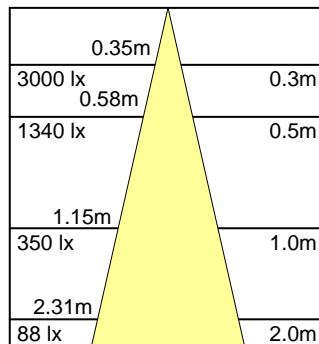
**46860 WFL**  
20W 38° 780cd



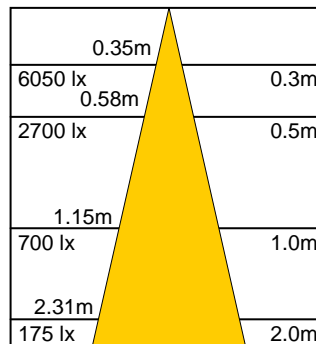
**46865 WFL**  
35W 38° 1500cd



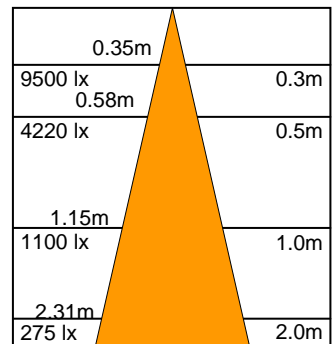
**46870 WFL**  
50W 38° 2200cd



**46860 VWFL**  
20W 60° 350cd



**46865 VWFL**  
35W 60° 700cd



**46870 VWFL**  
50W 60° 1100cd

\* denotes average rated life

## DECOSTAR<sup>®</sup> 51S – 2000 hour\*

0.05m		
26000 lx	0.09m	0.3m
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	0.17m	0.5m
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	0.17m	0.5m
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	0.34m	0.3m
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	0.34m	0.3m
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	0.34m	0.3m
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	0.58m	0.3m
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	0.09m	0.3m
12100 lx		0.5m
0.17m		
3150 lx		1.0m
0.35m		
790 lx		2.0m

**41860 SP**  
20W 10° 3150cd

0.21m		
4400lx	0.34m	0.3m
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	0.34m	0.3m
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	0.17m	0.5m
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	0.34m	0.3m
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	0.58m	0.3m
3050 lx		0.5m
1.15m		
800 lx		1.0m
2.31m		
200 lx		2.0m

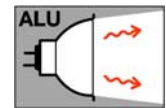
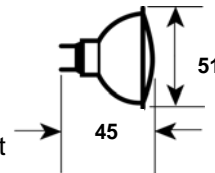
**41870 VWFL**  
50W 60° 800cd

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

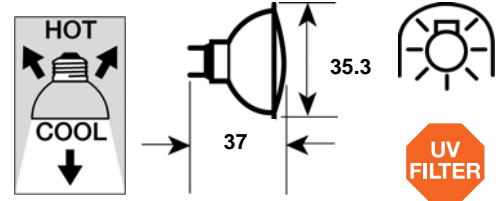
**41871 WFL**  
50W 38° 1800cd

\* 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	0.17m	0.5m
4500 lx		1.0m
0.35m		
1130 lx		2.0m
0.52m		
500 lx		3.0m

**46890 SP**  
20W 10° 4500cd

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

**46892 SP**  
35W 10° 7200cd

*Offers all the advantages of a TITAN lamp!*

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

**46890 WFL**  
20W 38° 700cd

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

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

**44892 SP**  
35W 10° 5400cd

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

**44890 WFL**  
20W 38° 500cd

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

**44892 WFL**  
35W 38° 900cd

\* denotes average rated life

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