Caret

Squirrel Cage

Delivering a warm light, the CARET lamp is an ideal retrofit solution for the Edison Squirrel Cage Lamp, which will be phased out.

It is particularly suited for use in chandeliers and design fixtures, where the lamp is visible at all times.

As the lamp is dimmable, it helps to create the desired atmosphere.

Remarks concerning dimming

- Read the entire manual carefully before installation and operation.
- The Caret with dimming feature works with most conventional dimmers for incandescent lamps or halogens. Please refer to the recommended dimmer list on previous page for further information.
- Certain dimmer switches may cause the Caret to flicker when it is illuminated below the "optimal minimum brightness level". The knob on the dimmer switch can be adjusted to prevent flickering. (Note: Certain dimmer switches are equipped with a potentiometer. The potentiometer is a small device to fine-tune the setting for the desired minimum light output of the lamp without flickering.)
- The manufacturer accepts no liability for any damage resulting from the misuse of the lamp or from when it is used with inappropriate equipment.
- Consult the dealer if there are any questions about this product.

Loading range

- Please pay attention to the minimum and maximum loads of the dimmer switch used.
- For the best dimming performance, the number of Carets connected should be within the minimum and maximum loads of the dimmer switch used.

Please see the following for the calculation:

MINIMUM load requirement

Calculation: Minimum load of dimmer switch x 1/6 = Minimum wattage of lamp(s) required

For instance, if the minimum load of a dimmer switch is 60W, the minimum wattage for the total CFL connected should be at least 10W (60W x 1/6)

The minimum load of the dimmer switch	Minimum wattage of the total Caret required	Minimum number of the Caret required
60 W	60W x 1/6 = 10 W	10W / 8W = 1,25 pieces (i.e. 2 pieces)

The dimmable Caret may flicker if the total wattage of the Caret connected is below the minimum load of the dimmer switch.

MAXIMUM load requirement

Calculation: Maximum load of dimmer switch x 1/5 = Maximum wattage of lamp(s) allowed

For instance, if the maximum load of a dimmer switch is 300W, the maximum wattage for the total CFL connected should be 60W (300W x 1/5)

The maximum load of the dimmer switch	Maximum wattage of the total Caret required	Maximum number of the Caret required
300 W	300W x 1/5 = 60 W	60W / 8W = 7,5 pieces (i.e. 7 pieces)

Malfunction or failure of the dimmer switch may occur if the total wattage of the Caret connected exceeds the maximum load of the dimmer switch.

NOTE: Do not mix revision 2 (C0045.2) with revision 1 (C0045.1) in the same luminaire.

Caret dimmer list (preliminary test list) - EU

Brand name	Model	Type	Power	Edge	Technology	Setting	Notes	Lamps
Berker	2866 10	Rotary	20 - 500VA	Leading	TRIAC		1, 2, 3, 5	6 - 10
Berker	2873	Rotary	20 - 500VA	Leading	TRIAC		1, 3, 5	2 - 10
Berker	2875	Rotary	60 - 600VA	Leading	TRIAC		1, 2, 3, 5	2 - 10
Berker	2902 R4	Rotary	50 - 420VA	Universal	Transistor	Trailing (auto)	1, 2	2 - 10
Eltako	EUD12Z-UC	Rail	Max. 400VA	Universal	Transistor	Mode +ESL		1 - 10
Eltako	EUD61NPN-UC	Build-In	Max. 400VA	Universal	Transistor	Mode EC1		1 - 10
EverFlourish / GAO	EF(D)700DC	Rotary	20 - 300VA	Leading	TRIAC		1, 2, 3, 5	1 - 7
Gira	0305 00 / I04	Rotary	50 - 420VA	Universal	Transistor	Trailing (auto)	1, 2	2 - 10
Gira	1184 00 / I01	Rotary	60 - 400VA	Leading	TRIAC		1, 2, 3, 4, 5, 6	-
Gira	2262 00 / I01	Rotary	20 - 500VA	Leading	TRIAC		1, 3, 5	2 - 10
Hager	EVN002	Rail	0 - 100VA	Universal	Transistor	Trailing (auto)	2	1 - 10
Insta	51010 R2	Rotary	60 - 600VA	Leading	TRIAC		1, 2, 3, 5	2 - 10
Insta	51175 R1	Rotary	60 - 400VA	Leading	TRIAC		1, 2, 3, 4, 5, 6	-
Insta	51180	Rotary	20 - 500VA	Leading	TRIAC		1, 2, 3, 5	6 - 10
Insta	53128 R4	Rotary	50 - 420VA	Universal	Transistor	Trailing (auto)	1, 2	2 - 10
Insta 51020040 R3	2262 00 / I01	Rotary	20 - 500VA	Leading	TRIAC		1, 3, 5	2 - 10
Jung	1254 UDE R4	Rotary	50 - 420VA	Universal	Transistor	Trailing (auto)	1, 2	2 - 10
Jung	266 GDE	Rotary	60 - 600VA	Leading	TRIAC		1, 2, 3, 5	2 - 10
Merten	MTN577199	Rotary	20 - 315VA	Trailing	Transistor		1, 2	1 - 7
Niko	310-01301	Rotary	60 - 300VA	Leading	TRIAC		1, 2, 3, 5	2 - 7
Niko	310-01901	Rotary	5 - 200VA	Universal	Transistor	Mode CFLi1		1 - 10
Niko	330-00700	Rail	5 - 200VA	Universal	Transistor	Mode CFLi1		1 - 10
Pera	T46	Rotary	20 - 315VA	Trailing	Transistor		1, 2	1 - 7
Siemens	5TC8 256	Rotary	50 - 400VA	Leading	TRIAC		1, 2, 3, 5	1 - 3
Sygonic	33595A	Rotary	20 - 315VA	Trailing	Transistor		1, 2	1 - 7
Wintop	13212	Rotary	50 - 300VA	Leading	TRIAC		1, 2, 3, 5	6 - 7

Caret dimmer list (preliminary test list) - EU

x - y	Dimmable, with x to y lamps - Recommended
x - y	Dimmable, with x to y lamps
-	The configuration shows undesirable dimming behavior
-	Combination not tested

Note	Declaration
1	Only switch the dimmer on at maximum brightness setting, to ensure lamp startup
2	Dimmer has no minimum setting
3	Dimmer has issues with multi-firing
4	Dimmer may become unstable at some brightness settings
5	Audible humming may be noticed
6	Lamps flash
7	Lamps may extinguish when brightness setting is decreased too fast