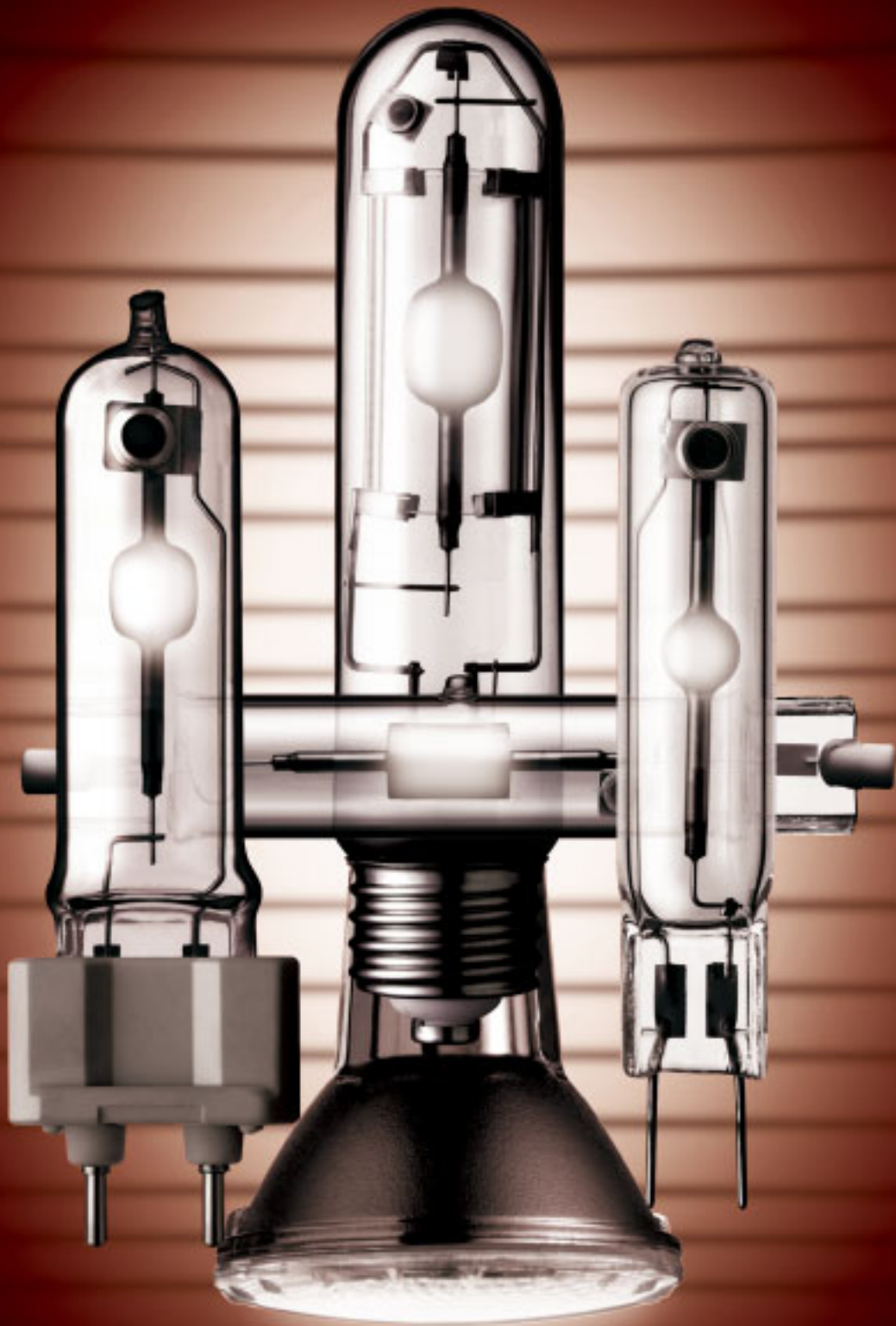


Ceramic Metal Halide Lamps

# **EYE CERA ARC**™

35W / 70W / 150W / 250W / 400W

L o o k s n i c e i n r e d .



Ceramic Metal Halide Lamps

## **EYE CERA ARC™**

EYE CERA ARC is a premium ceramic metal halide that has good red colour rendition with various bulb and base types as well as other advantages of ceramic metal halide such as high efficacy, high colour rendition, reduced colour shift and imperceptible lamp to lamp colour variation.





## Faithful reproduction of colours

The colour rendering index (Ra) is a measure of how accurately an artificial light source can render colour. Most models including the warm 3000K range of colour temperature types of the EYE CERA ARC have Ra  $\geq$ 90, 1A, the highest level of colour rendering index. Accurate colour enhances the value of any setting.



Standard Metal Halide lamp

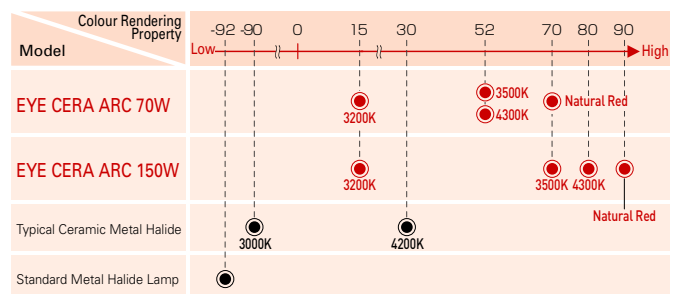
EYE CERA ARC

ISO8995		Recommended Applications	Example of Light Source
Colour Rendering Group	Colour Rendering (Ra) Range		
1A	90 or more	Colour matching, Colour inspection, Commercial facilities, Museum, Sports facilities, Factory, Park, Street	<b>EYE CERA ARC</b>
1B	80 or more	Commercial facilities, Sports facilities, Factory, Park, Street	Typical ceramic metal halide - 3K
2	60 or more	Commercial facilities, Sports facilities, Factory, Park, Street	Metal halide
3	40 or more	Factory, Park, Street, Roadway	Mercury lamp
4	Less than 40	Factory, Park, Street, Roadway	High pressure sodium

## Best expression of redness

Among various colours, the reproduction or rendition of redness has a large impact on the appearance of any object. The EYE CERA ARC has an excellent colour rendering property for red (R9). The EYE CERA ARC lamps are not only suitable for lighting for goods that need clear appeal of redness such as food and clothes, but also creates a well-balanced, high-quality lighting space by emphasising of red.

### Comparison of Colour Rendering Property of Red (R9)

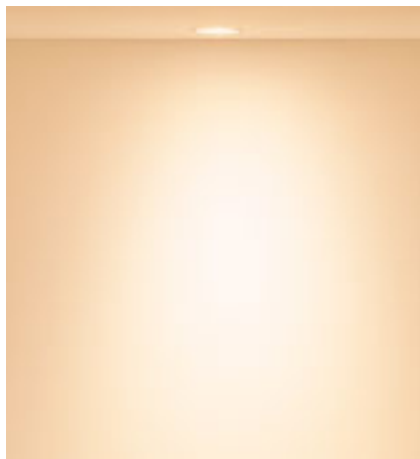
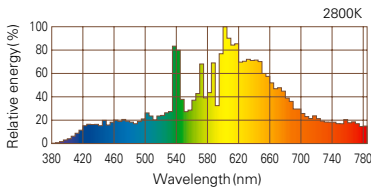


K (Kelvin): Unit of correlated colour temperature

# Colourful expression with 5 types of light colours

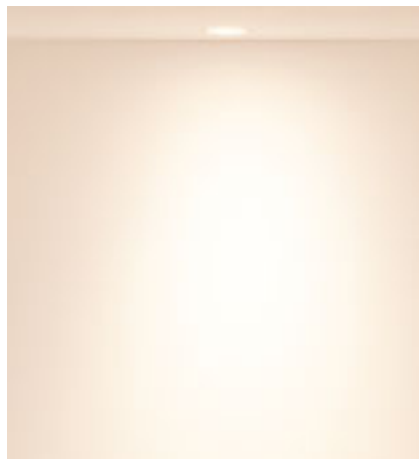
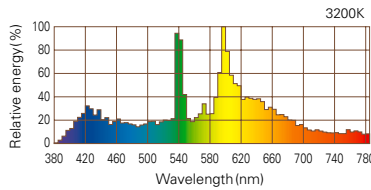
## 2800K

The 2800K features warm, incandescent colour with ceramic metal halide efficacy and higher than Ra 90 colour rendering. This lamp is perfect for retail and commercial settings. It produces relaxed and exclusive lighting space.



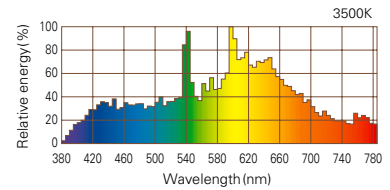
## 3000K, 3200K

The light colour generated momentarily when the sun rises is reproduced. The brilliance of 3200K creates a friendly lighting space like dawn. It produces a comfortable, relaxed and pleasant lighting space.



## 3500K

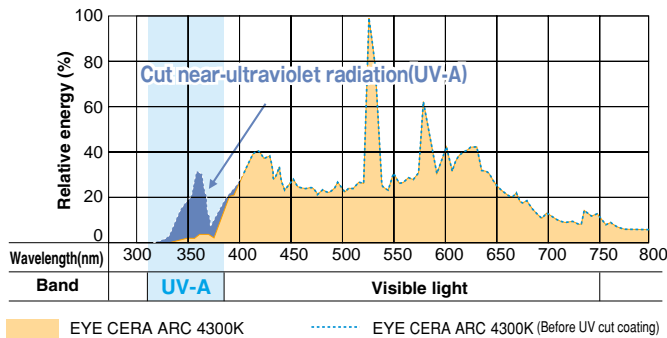
Number one light source for interior commercial lighting. The refreshing light with excellent colour rendition produces a high quality lit environment for jewellers to art galleries. Also it improves the texture & depth of fabrics such as leather products.



## UV-cut

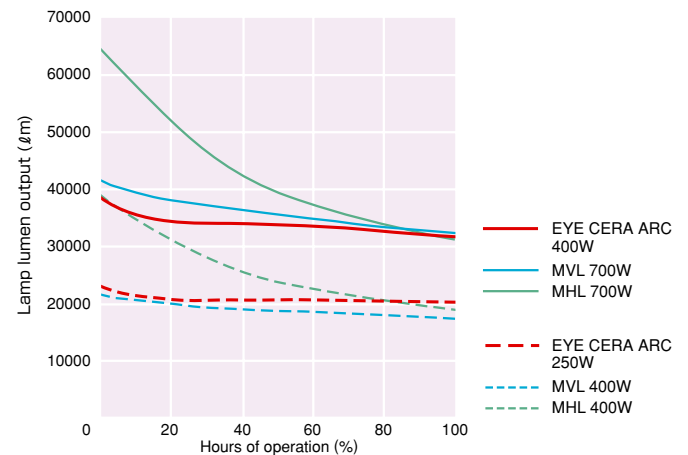
EYE CERA ARC lamps have an optically designed special coating that dramatically reduces UV radiation from the lamps to prevent discoloration and fading.

UV-cut characteristic of the EYE CERA ARC



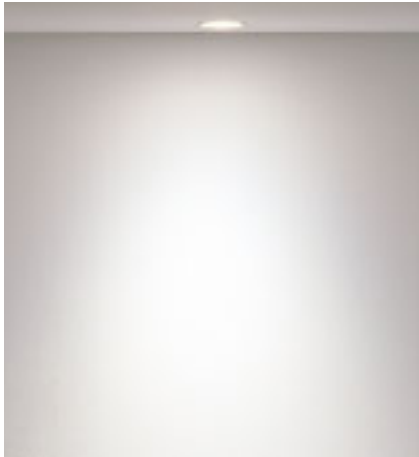
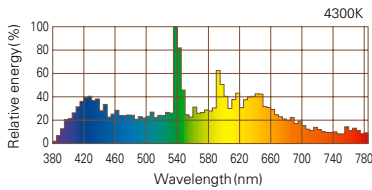
## Energy saving design (250W / 400W)

Lumen maintenance



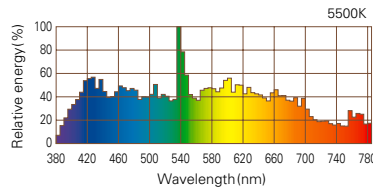
### 4100K, 4300K

The light vividly expresses all colours creating vibrant images. The light is close to natural light emphasising the freshness of vegetables and fruits. The light is suitable for general commercial facilities, offices, museums, gymnasiums etc.



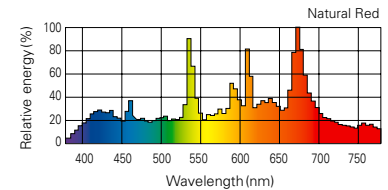
### 5500K

The coolest colour temperature ceramic metal halide from Iwasaki faithfully reproduces the colours of lit objects. In retail, jewelry glistens brilliantly capturing the imagination. Indoor sports facilities along with office areas are given a vibrancy that up until now, only outdoor environments could provide.



## Natural Red, more vivid red

EYE CERA ARC Natural Red with optimised red colour rendition (R9) is even higher than other EYE CERA ARC lamps. The Natural Red brings out the true beauty and richness of red and other colours. This lamp is perfect for a wide range of food and other display lighting applications.



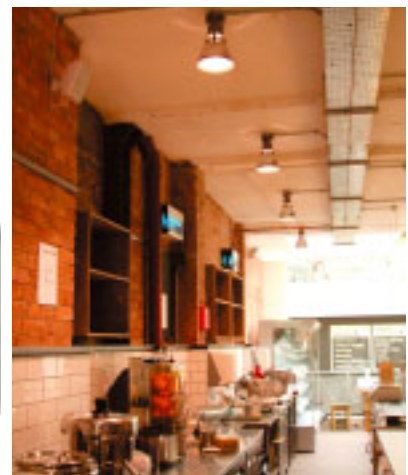
A stunning 85% lumen maintenance makes it possible to reduce up to 50% energy consumption, supporting CO<sub>2</sub> reduction.

The lumens at the end of lamp life of the 400W EYE CERA ARC corresponds to the lumens of 700W metal halide lamp, and 250W EYE CERA ARC corresponds to the lumens of 400W metal halide lamp.

By reducing numbers of fixture at the lighting design stage by suppressing excessive brightness energy consumption is saved drastically. These 250W and 400W lamps operate on our dimmable electronic ballast, which realizes further energy saving.

## “Protected” Tubular bulb with E27 screw base

Wide selections of colour temperature types in wattages from 35W to 150W are available in Tubular bulb with E27 base (E26 Medium base for North American region). All of these lamps can be used without cover glass. The Tubular E27 type fits a wide variety of applications such as façade lighting, wall washers, display lighting. Ideal with downlight, pendant luminaires, which do not need cover glass, thus is low cost and low loss in performance. Clear and frosted bulbs are available.

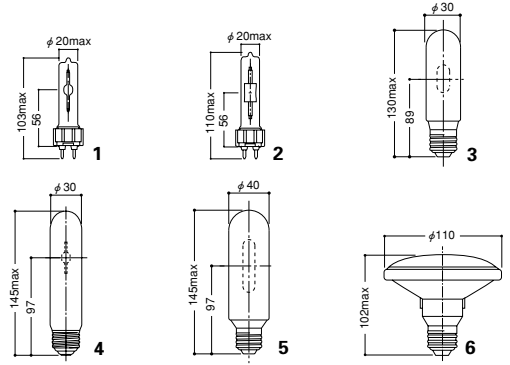


**EYE CERA ARC™ Natural Red**

The colour of many items, including meat, fish, vegetables and fruit, can be affected by the accuracy of the rendering of the colour red. EYE CERA ARC "Natural Red" brings out the true beauty and richness of red and other colours.

Excellent rendition & resolution of red colours.

R9:  $\geq 90$  is one of the highest red colour rendering ratings of red in any metal halide or ceramic metal halide lamp. Ideal for more than just red, this lamp renders other colours, including greens, blues and whites, with greater accuracy.



Type	Watts (W)	Base	Bulb Finish	Colour Temp. (K)	Ra	R9	Lamp Voltage (V)	Lamp Current (A)	Initial Lumens (lm)	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
<b>EYE CERA ARC Natural Red T - G12</b>													
CMT70/NR/G12	70	G12	Clear	3600	92	90	85	0.82	6300	12000	Any	1	ECG
CMT150/NR/G12	150	G12	Clear	3600	90	90	90	1.67	12000	9000	Any	2	ECG
<b>EYE CERA ARC Natural Red TP - Tubular Protected E27 screw base</b>													
CMT70/NR	70	E27	Clear	3600	92	70	90	0.95	5100	9000	Any	3	
CMT70F/NR	70	E27	Frosted	3600	92	70	90	0.95	4900	9000	Any	3	
CMT150/NR/T30	150	E27	Clear	3600	92	90	90	1.67	11500	12000	Any	4	ECG
CMT150F/NR/T30	150	E27	Frosted	3600	92	90	90	1.67	11000	12000	Any	4	ECG
CMT150/NR	150	E27	Clear	3600	92	90	95	1.90	11500	9000	Any	5	
CMT150F/NR	150	E27	Frosted	3600	92	90	95	1.90	11000	9000	Any	5	
Type	Watts (W)	Base	Colour Temp. (K)	Ra	R9	Lamp Voltage (V)	Lamp Current (A)	Beam Angle (°)	Max. Light Intensity (cd)	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
<b>EYE CERA ARC Natural Red PAR36 - E27 screw base</b>													
CM70P36S/NR	70	E27	3600	92	70	90	0.95	27	9000	9000	Any	6	
CM70P36F/NR	70	E27	3600	92	70	90	0.95	70 X 75	2000	9000	Any	6	
CM150P36S/NR	150	E27	3600	92	90	95	1.90	32	14500	9000	Any	6	
CM150P36F/NR	150	E27	3600	92	90	95	1.90	70	5000	9000	Any	6	

\* Lamps marked ECG in the Ref. column must be used with electronic ballasts manufactured by or approved by Iwasaki Electric to ensure correct operation.



Perfect for a wide range of food and other display lighting applications where the rendering of red or other colours can be naturally and vividly enhanced.

# EYE CERA ARC™ 2800K

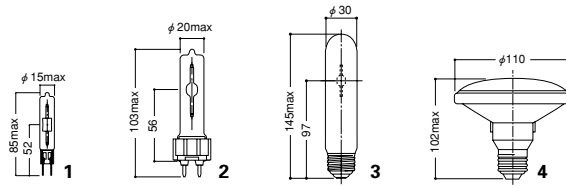
2800K warm incandescent colour but with ceramic metal halide efficacy.

Ra: 95, the highest colour rendering in warm colour HID lamps.

1.7 times higher lumen output than high CRI white sodium lamp. (comparison of EYE SDX; 2500K Ra 85 white sodium lamp)

3-5 times more efficient and up to 5 times longer life than halogen or incandescent lamps.

R9: up to 60, high red colour rendering.



Type	Watts (W)	Base	Bulb Finish	Colour Temp. (K)	Ra	Lamp Voltage (V)	Lamp Current (A)	Initial Lumens (lm)	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
<b>EYE CERA ARC 2800K TC - G8.5 base</b>												
CMT70/LW928/G8.5	70	G8.5	Clear	2800	92	85	0.82	6300	12000	Any	1	ECG
<b>EYE CERA ARC 2800K T - G12 base</b>												
CMT70/LW928/G12	70	G12	Clear	2800	92	85	0.82	6300	12000	Any	2	ECG
<b>EYE CERA ARC 2800K TP - Tubular Protected E27 screw base</b>												
CMT150/LW928	150	E27	Clear	2800	95	90	1.67	13500	9000	Any	3	ECG
CMT150F/LW928	150	E27	Frosted	2800	95	90	1.67	13000	9000	Any	3	ECG
Type	Watts (W)	Base	Colour Temp. (K)	Ra	Lamp Voltage (V)	Lamp Current (A)	Beam Angle (°)	Max.Light Intensity (cd)	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
<b>EYE CERA ARC 2800K PAR36 - E27 screw base</b>												
CM70P36S/LW928	70	E27	2800	92	85	0.82	30	7500	12000	Any	4	ECG
CM70P36F/LW928	70	E27	2800	92	85	0.82	70	2300	12000	Any	4	ECG
CM150P36S/LW928	150	E27	2800	95	90	1.67	32	16000	9000	Any	4	ECG
CM150P36F/LW928	150	E27	2800	95	90	1.67	70	5500	9000	Any	4	ECG

\* Lamps marked ECG in the Ref. column must be used with electronic ballasts manufactured by or approved by Iwasaki Electric to ensure correct operation.



EYE CERA ARC 2800K fits commercial applications, landscapes and architectural details where warm colour, high colour rendering and high efficacy are needed.





Ceramic Metal Halide Lamps

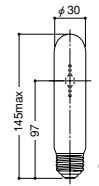
# EYE CERA ARC™ 5500K

Coollest colour temperature ceramic metal halide from Iwasaki accurately reproduces colours of objects, making it an excellent choice for many different applications.

Ra: 95, high colour rendering.

Provides approx. 13% higher lumens than other high colour temperature, high CRI metal halide lamps.

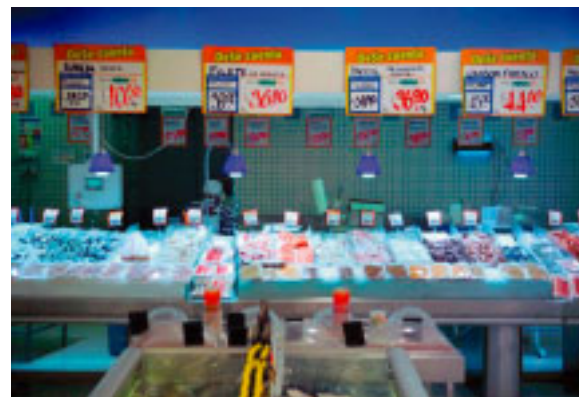
R9: ≥70, high red colour rendering.



Type	Watts (W)	Base	Bulb Finish	Colour Temp. (K)	Ra	Lamp Voltage (V)	Lamp Current (A)	Initial Lumens (lm)	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
<b>EYE CERA ARC 5500K TP - Tubular Protected E27 screw base</b>												
CMT150/N	150	E27	Clear	5500	95	90	1.67	12500	9000	Any	1	ECG
CMT150F/N	150	E27	Frosted	5500	95	90	1.67	12000	9000	Any	1	ECG

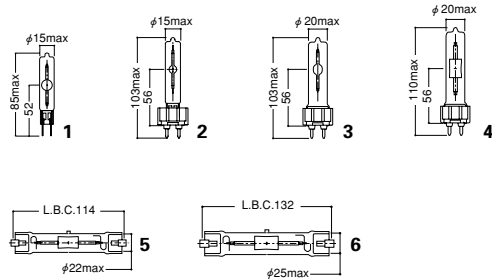
\* Lamps marked ECG in the Ref. column must be used with electronic ballasts manufactured by or approved by Iwasaki Electric to ensure correct operation.

Ideal for displaying highly reflective merchandise and for any other applications where cool colour, high colour rendering and high efficacy are needed.



# EYE CERA ARC™ TC, T, TD

The colour rendering index (Ra) is a measure of how accurately an artificial light source can render colour. Most models including warm 3000K range colour temperature types of the EYE CERA ARC have Ra  $\geq 90$ , the highest level of colour rendering index. Accurate colour enhances the value of any setting.



Type	Watts (W)	Base	Bulb Finish	Colour Temp. (K)	Ra	Lamp Voltage (V)	Lamp Current (A)	Initial Lumens (lm)	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
<b>EYE CERA ARC TC - G8.5 base</b>												
CMT35/LW/G8.5	39	G8.5	Clear	3000	83	85	0.46	3300	9000	Any	1	ECG
CMT35/W/G8.5	39	G8.5	Clear	4200	90	85	0.46	3300	6000	Any	1	ECG
CMT70/LW/SH/G8.5	70	G8.5	Clear	3000	90	85	0.82	7200	12000	Any	1	ECG
CMT70/WW/SH/G8.5	70	G8.5	Clear	3500	90	85	0.82	7400	12000	Any	1	ECG
CMT70/W/SH/G8.5	70	G8.5	Clear	4200	94	85	0.82	7400	12000	Any	1	ECG
<b>EYE CERA ARC T - G12 base</b>												
CMT35/LW/G12	39	G12	Clear	3000	83	85	0.46	3300	9000	Any	2	ECG
CMT35/W/G12	39	G12	Clear	4200	90	85	0.46	3300	6000	Any	2	ECG
CMT70/LW/SH/G12	70	G12	Clear	3000	90	85	0.82	7200	12000	Any	3	ECG
CMT70/WW/SH/G12	70	G12	Clear	3500	90	85	0.82	7400	12000	Any	3	ECG
CMT70/W/SH/G12	70	G12	Clear	4200	94	85	0.82	7400	12000	Any	3	ECG
CMT150/DW/G12	150	G12	Clear	3200	87	90	1.67	15000	12000	Any	4	
CMT150/WW/G12	150	G12	Clear	3500	93	90	1.67	14500	12000	Any	4	
CMT150/W/G12	150	G12	Clear	4200	93	90	1.67	14500	12000	Any	4	
<b>EYE CERA ARC TD - Double ended</b>												
CMTD70/DW	70	RX7s	Clear	3200	90	90	0.95	6500	9000	BH $\pm 45^\circ$	5	
CMTD70/WW	70	RX7s	Clear	3500	90	90	0.95	6000	9000	BH $\pm 45^\circ$	5	
CMTD70/W	70	RX7s	Clear	4300	90	90	0.95	6000	9000	BH $\pm 45^\circ$	5	
CMTD150/DW	150	RX7s	Clear	3200	90	95	1.90	13500	12000	BH $\pm 45^\circ$	6	
CMTD150/WW	150	RX7s	Clear	3500	94	95	1.90	13500	12000	BH $\pm 45^\circ$	6	
CMTD150/W	150	RX7s	Clear	4300	94	95	1.90	13500	12000	BH $\pm 45^\circ$	6	

\* Lamps marked ECG in the Ref. column must be used with electronic ballasts manufactured by or approved by Iwasaki Electric to ensure correct operation.





Ceramic Metal Halide Lamps

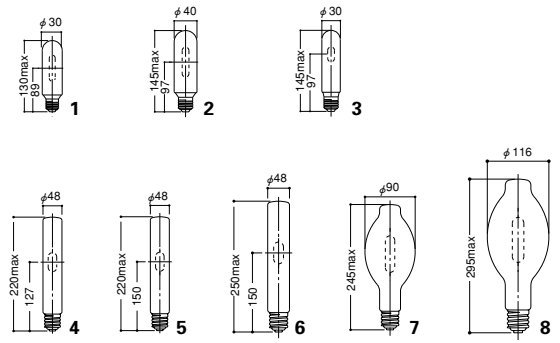
# EYE CERA ARC™ TP, T, BT, Screw Base

TP; Tubular "Protected" bulb with E27 type fits a wide variety of applications such as façade lighting, wall washers, display lighting.

The protected lamps can be used without cover glass. Ideal with downlights, pendant luminaires, which do not need cover glass, thus is low cost and low loss in performance. Clear and frosted bulbs are available.

Energy saving design - 250W, 400W.

A stunning 85% lumen maintenance makes it possible to reduce up to 50% energy consumption, supporting CO<sub>2</sub> reduction.



Type	Watts (W)	Base	Bulb Finish	Colour Temp. (K)	Ra	Lamp Voltage (V)	Lamp Current (A)	Initial Lumens (lm)	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
<b>EYE CERA ARC TP - Tubular Protected E27 screw base</b>												
CMT35/DW	39	E27	Clear	3200	83	80	0.48	3150	9000	Any	1	ECG
CMT35F/DW	39	E27	Frosted	3200	83	80	0.48	3000	9000	Any	1	ECG
CMT70/DW	70	E27	Clear	3200	90	90	0.95	6000	9000	Any	1	
CMT70F/DW	70	E27	Frosted	3200	90	90	0.95	5800	9000	Any	1	
CMT70/WW	70	E27	Clear	3500	90	90	0.95	6000	9000	Any	1	
CMT70F/WW	70	E27	Frosted	3500	90	90	0.95	5800	9000	Any	1	
CMT70/W	70	E27	Clear	4300	90	90	0.95	6000	9000	Any	1	
CMT70F/W	70	E27	Frosted	4300	90	90	0.95	5800	9000	Any	1	
CMT150/DW	150	E27	Clear	3200	90	95	1.90	13500	9000	Any	2	
CMT150F/DW	150	E27	Frosted	3200	90	95	1.90	13000	9000	Any	2	
CMT150/WW	150	E27	Clear	3500	95	95	1.90	13500	9000	Any	2	
CMT150F/WW	150	E27	Frosted	3500	95	95	1.90	13000	9000	Any	2	
CMT150/W	150	E27	Clear	4300	95	95	1.90	13500	9000	Any	2	
CMT150F/W	150	E27	Frosted	4300	95	95	1.90	13000	9000	Any	2	
<b>EYE CERA ARC High Efficacy and Dimmable TP - Tubular Protected E27 screw base</b>												
CMT150/DW/SH	150	E27	Clear	3200	90	90	1.67	15000	15000	Any	3	ECG
CMT150F/DW/SH	150	E27	Frosted	3200	90	90	1.67	14400	15000	Any	3	ECG
CMT150/WW/SH	150	E27	Clear	3500	92	90	1.67	15000	15000	Any	3	ECG
CMT150F/WW/SH	150	E27	Frosted	3500	92	90	1.67	14400	15000	Any	3	ECG
CMT150/W/SH	150	E27	Clear	4300	92	90	1.67	15000	15000	Any	3	ECG
CMT150F/W/SH	150	E27	Frosted	4300	92	90	1.67	14400	15000	Any	3	ECG
<b>EYE CERA ARC T - Tubular E40 operates on ballast for 150W high pressure sodium</b>												
CMT150/W/HOR/E40	150	E40	Clear	4100	93	95	1.90	14000	12000	BH ± 30°	4	
<b>EYE CERA ARC TP - Tubular Protected E40 screw base operates on Iwasaki electronic ballast</b>												
CMT250/W/BUD/2	250	E40	Clear	4100	90	100	3.00	23800	12000	BU/BD ± 60°	5	ECG
CMT400/W/BUD	400	E40	Clear	4100	90	100	4.70	38000	12000	BU/BD ± 60°	6	ECG
<b>EYE CERA ARC BT - BT Protected E40 screw base operates on Iwasaki electronic ballast</b>												
CM250FCE-W/BUD/2	250	E40	Coated	4100	90	100	3.00	22500	12000	BU/BD ± 60°	7	ECG
CM400FCE-W/BUD	400	E40	Coated	4100	90	100	4.70	36000	12000	BU/BD ± 60°	8	ECG

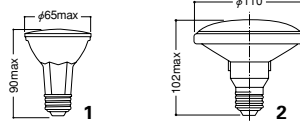
\* Lamps marked ECG in the Ref. column must be used with electronic ballasts manufactured by or approved by Iwasaki Electric to ensure correct operation.



**EYE CERA ARC™ PAR20, PAR36**

PAR type bulb with E27 screw base.

Various wattages and colour temperature types are available in PAR range.



Various types are available in PAR36.

Wide and spot beam types available.

"Pink" type uses dichroic mirror instead of aluminium coated mirror to produce translucent pinkish colour light for food lighting and display lighting applications.

Find details of other available PAR36 colours on the 2800K and Natural Red pages.

Type	Watts (W)	Base	Colour Temp.(K) or Colour	Ra	Lamp Voltage (V)	Lamp Current (A)	Beam Angle (°)	Max.Light Intensity (cd)	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
<b>EYE CERA ARC PAR20 - E27 screw base</b>												
CM35P20S/LW	39	E27	3000	90	85	0.46	13	16000	9000	Any	1	ECG
CM35P20F/LW	39	E27	3000	90	85	0.46	23	7500	9000	Any	1	ECG
<b>EYE CERA ARC PAR36 - E27 screw base</b>												
CM70P36S/DW	70	E27	3200	90	90	0.95	27	10000	9000	Any	2	
CM70P36F/DW	70	E27	3200	90	90	0.95	70 X 75	2200	9000	Any	2	
CM70P36S/WW	70	E27	3500	90	90	0.95	27	10000	9000	Any	2	
CM70P36F/WW	70	E27	3500	90	90	0.95	70 X 75	2200	9000	Any	2	
CM70P36S/W	70	E27	4300	90	90	0.95	27	10000	9000	Any	2	
CM70P36F/W	70	E27	4300	90	90	0.95	70 X 75	2200	9000	Any	2	
CM70P36S/P	70	E27	PINK	-	85	0.82	27	1800	9000	Any	2	
CM70P36F/P	70	E27	PINK	-	85	0.82	50	5200	9000	Any	2	
CM150P36S/DW	150	E27	3200	93	95	1.90	32	16000	9000	Any	2	
CM150P36F/DW	150	E27	3200	93	95	1.90	70	5500	9000	Any	2	
CM150P36S/WW	150	E27	3500	95	95	1.90	32	16000	9000	Any	2	
CM150P36F/WW	150	E27	3500	95	95	1.90	70	5500	9000	Any	2	
CM150P36S/W	150	E27	4300	95	95	1.90	32	16000	9000	Any	2	
CM150P36F/W	150	E27	4300	95	95	1.90	70	5500	9000	Any	2	
CM150P36S/P	150	E27	PINK	-	95	1.90	35	9000	9000	Any	2	
CM150P36F/P	150	E27	PINK	-	95	1.90	70	3800	9000	Any	2	

\* Lamps marked ECG in the Ref. column must be used with electronic ballasts manufactured by or approved by Iwasaki Electric to ensure correct operation.



Ideal for any retail applications where high colour rendering is needed.



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