

***EYE CERA ARC***<sup>TM</sup>

Ceramic Metal Halide lamp for energy saving.



Real colours are pursued





Real colours are pursued

# Quality Light Truer Colour

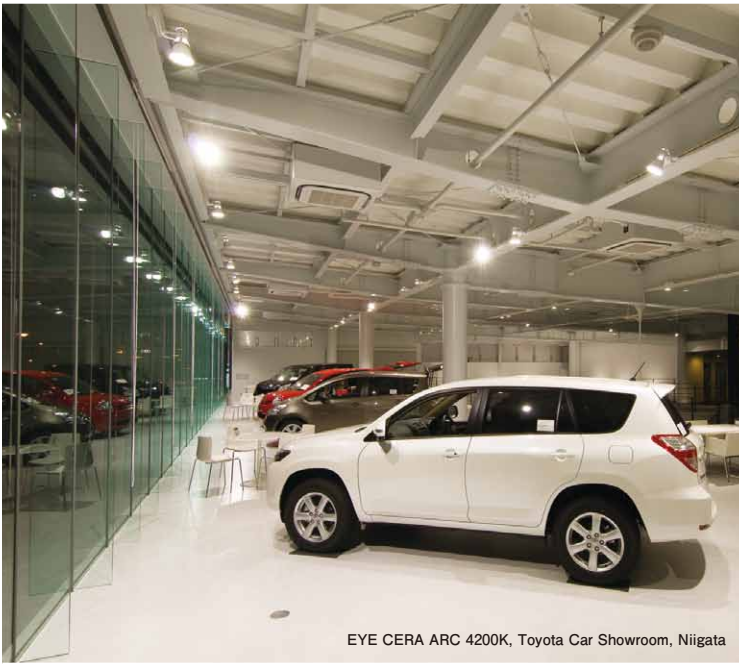
A premium-feel lighting display requires a premium quality light source.

With exceptional colour rendering – including faithful reproduction of reds – and available in a broad range of colour temperatures, the EYE CERA ARC range of lamps can be used to enhance a broad spectrum of products and spaces by illuminating them in their true colours.

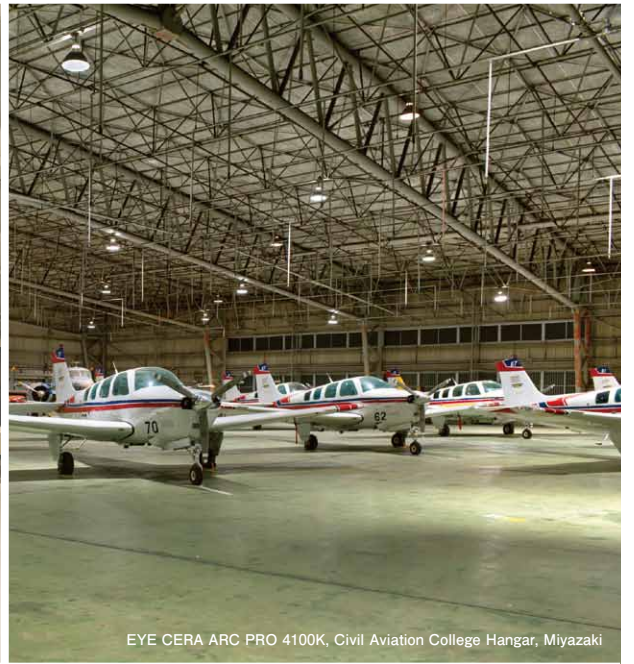




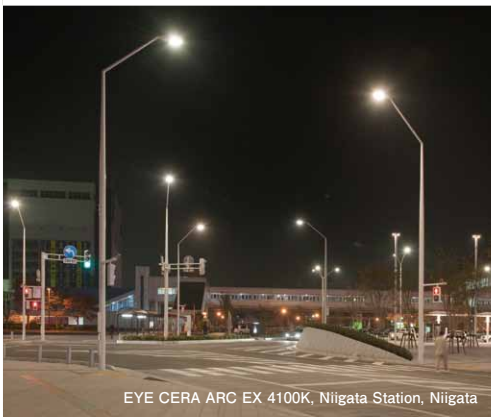
EYE CERA ARC 3500K, Meal Muji Café, Kanagawa



EYE CERA ARC 4200K, Toyota Car Showroom, Niigata



EYE CERA ARC PRO 4100K, Civil Aviation College Hangar, Miyazaki



EYE CERA ARC EX 4100K, Niigata Station, Niigata

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## ■ In pursuit of real light

The Colour Rendering Index (CRI) is the scale on which the faithfulness of colour reproduction is measured, with a maximum rating of Ra100.

In general terms, lamps producing a CRI rating of Ra80 or above will be categorized as “High Colour Rendering Lamps”. However, the benchmark for EYE CERA ARC lamps is set higher, with CRI ratings of over Ra90 across the broad spectrum of colour temperatures in the range.

A broad spectrum of colour temperatures coupled with exceptional colour rendering make the EYE CERA ARC lamps the ideal tool to enhance a broad spectrum of products and spaces by illuminating them their true colours.

○ Colour Rendering of lamps and recommended usages; International Commission on Illumination (CIE), 1986

Colour Rendering Group	Colour Rendering	Application(s)		Recommended Lamp
		Recommended	Acceptable	
1A	Ra $\geq$ 90	Colour Comparison; Product Inspection; Clinical examination; Gallery		EYE CERA ARC, COLOR ARC
1B	90 > Ra $\geq$ 80	Residential / Hotel / Restaurant / Retail / Office / School / Hospital		EYE CERA ARC EX/PRO
		Printing / Publishing / Precision Task		
2	80 > Ra $\geq$ 60	General Task	Office / School	EYE Multi Super-Ace
3	60 > Ra $\geq$ 40	Tunnel / Road / Non-Precision Task	Non-Precision Task	EYE Multi Hi-Ace
4	40 > Ra $\geq$ 20	Road / Tunnel	Workplaces where colour rendering is not important.	EYE Sunlux Ace

## ■ Comfortably Sophisticated -2800K-

A warm colour temperature of 2800K, combined with exceptional colour rendering and clear reproduction of colours in the red spectrum—often a weak point for low wattage metal halides—allows for the creation of an elegant yet comfortable environment.

Providing a warm halogen-like light through a light source offering far superior efficiency and lamp life, the lamps allow for a reduction in the number of installed units, a reduction in energy consumption, and a reduction in maintenance costs, without a reduction in the quality of the lighting environment.

## Brilliant Red

Ceramic arc tubes are able to withstand higher temperatures in comparison to those of quartz metal halides, which allow the optimally balanced compounds within the arc tubes of EYE CERA ARC lamps to be burned with greater intensity.

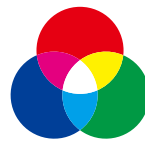
As a result the rendering of colours in the red spectrum – often a weakness within low wattage metal halides – is greatly elevated, making the lamps ideal for applications where the enhancement of reds is desired; retail lighting being a prime example.

### Brilliant across all Colours

The image on the left shows a set of billiard balls illuminated under a standard metal halide lamp, and in this image the difference between the blue ball and the purple one is not as clear as in the image on the right, which shows the same balls under a EYE CERA ARC lamp.



The illumination of greens is strong and that of reds is relatively weak, meaning reds are not shown clearly or brightly.



An equal balance between red, green and blue, ensures all colours appear brighter and clearer.

## Pinnacle of Red -Natural Red-

The Natural Red lamp offers superior chromacity thanks to a mixture of chemicals unique to Iwasaki, with a high colour rendering of over Ra90 and exceptional red colour rendering of over R9:90.

As a result of this, the Natural Red lamp accentuates reds in a more refined and unexaggerated manner than neodymium or high-pressure sodium lamps, making the reds appear more naturally and vividly.

Combining both exceptional red colour rendering and overall colour rendering of over Ra90, the Natural Red lamp accentuates reds in a more natural and vivid way than neodymium or high-pressure sodium lamps had done previously.

### A more natural reproduction of reds:

Under neodymium or high-pressure sodium lamps, reds are exaggerated as a result of blue and green colours being suppressed, leading to a less balanced red reproduction. However, under the natural red lamp, the high colour rendering ensures that all colours – as well as red – are projected clearly.



Red colours are exaggerated, giving a reddish tint to all illuminated subjects.



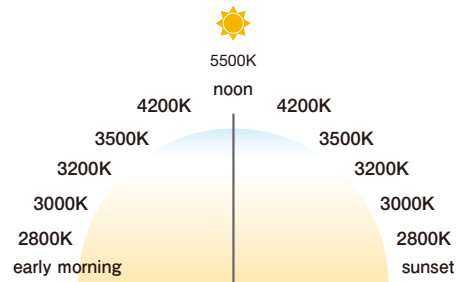
Reds are drawn out whilst also maintaining a balance with green and blue, meaning that all colours are projected more faithfully.



## Nature Reproduced

Through a broad spectrum of colour temperatures ranging from 2500K to 5500K, the EYE CERA ARC range provides a varied selection of light sources with which to create a vibrant and natural lighting environment.

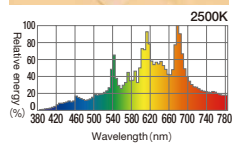
With this variety comes the flexibility to adjust displays to suit changes in seasons or products through a simple lamp change.



### Abundant Variety

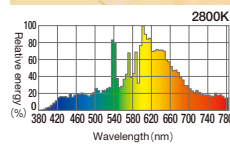
#### 2500K

A welcoming, the calm of the late afternoon sun



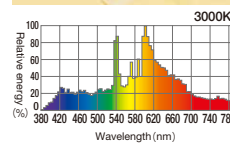
#### 2800K

A soft, calming environment



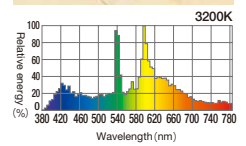
#### 3000K

A relaxing, comfortable environment



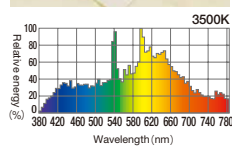
#### 3200K

A twilight - like environment of tranquility



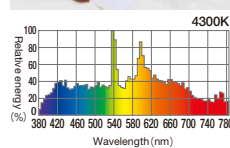
#### 3500K

A fresh, elegant environment



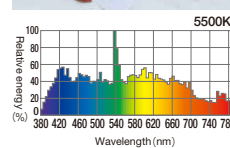
#### 4100-4300K

An energetic, natural environment



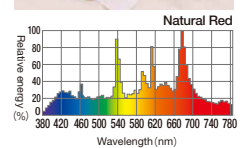
#### 5500K

A fresh, vibrant environment, resembling the clear midday sun



#### 3600K (Natural Red)

Accentuates and maximizes the true beauty of red

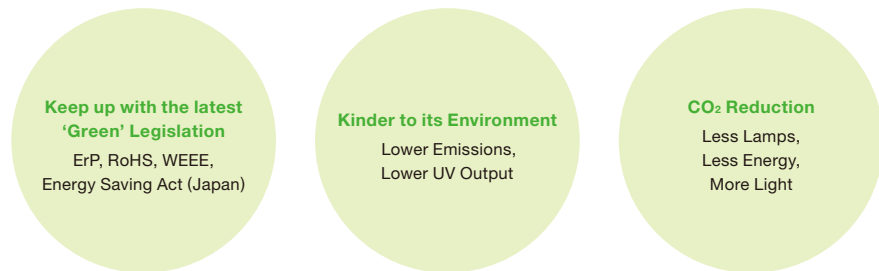




## Greener Lighting Solutions

Faced with the issue of Global Warming, 'Energy-Saving' and 'CO<sub>2</sub> Reduction' have become core requirements in many areas of everyday life. In this drive towards a low-carbon society, consumers are all being encouraged to consider the environmental impact of their purchasing behaviour - a movement that we at Iwasaki refer to as ECO Choice.

Through the promotion of energy efficient and environmentally conscious product development, we aim to provide ever more products that satisfy the ECO Choice requirements of customers.



## UV-Reduction

The UV-cut coating on the outer bulb reduces UV output by 90%, thus suppressing damage resulting from UV output.

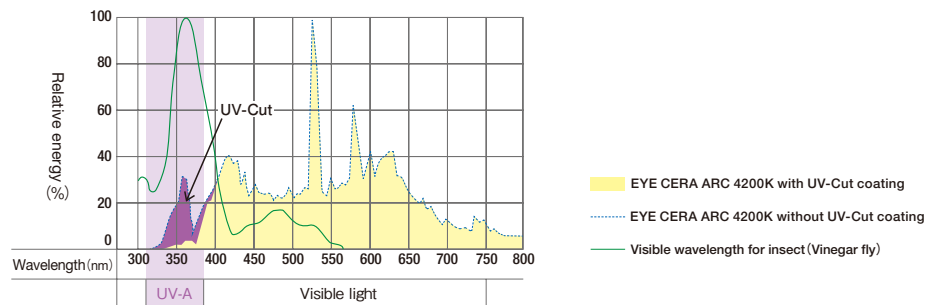
### UV-Cut Coating

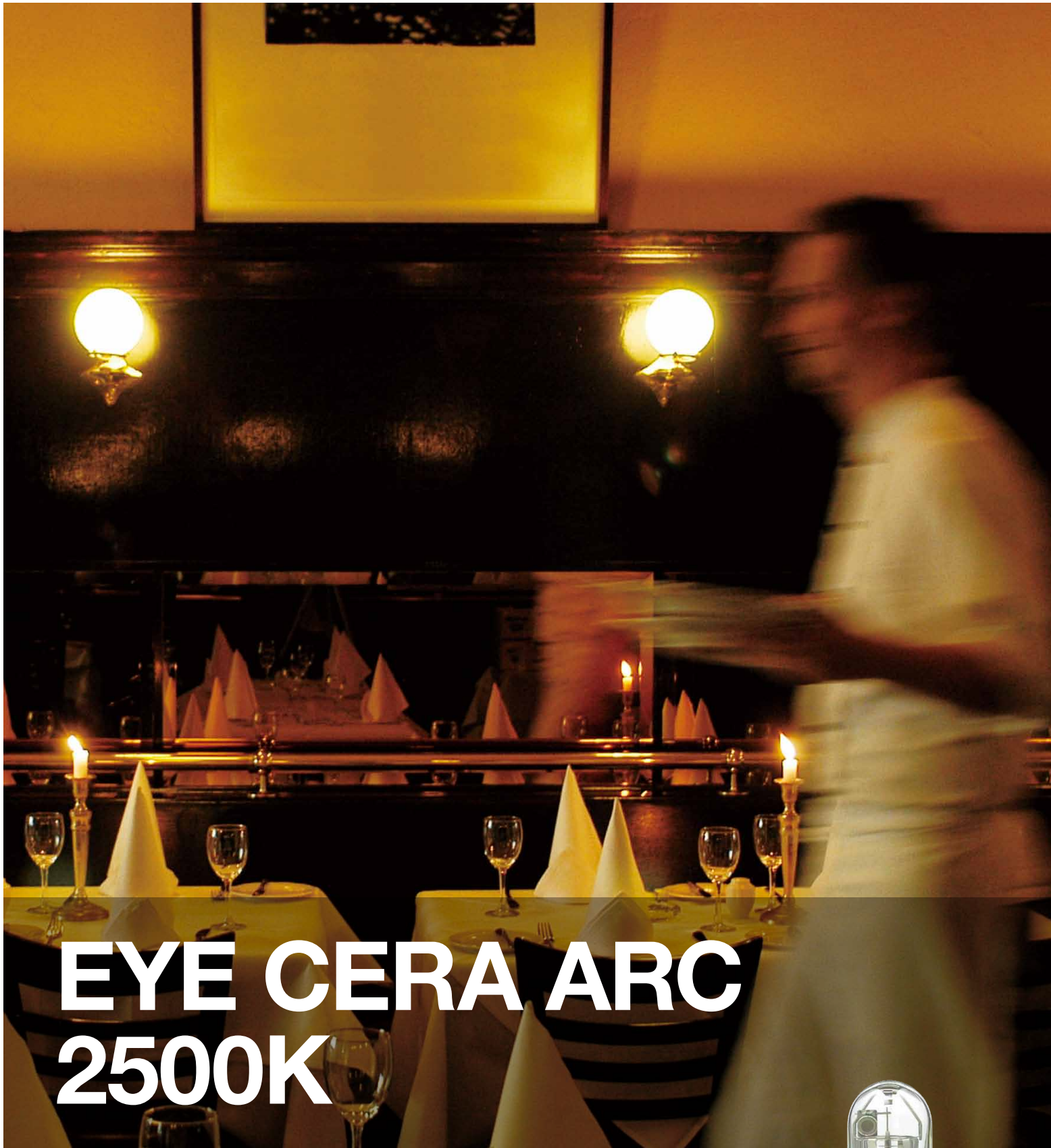
Any light source that emits ultraviolet rays – even at minimal levels – will present the probability of discolouration of the illuminated subject.

How much so will depend upon the level of rays emitted, as well as length of time the subject is illuminated, and its distance from the light source.

EYE CERA ARC lamps significantly suppress the rate of discolouration by vastly reducing the amount of UV-A emitted.

#### UV-Cut Characteristics





# EYE CERA ARC 2500K

## Creating a warm atmosphere

The calm of the late afternoon sun, bringing with its images of a relaxing and pleasant evening ahead - this is the ambiance created by the EYE CERA ARC 2500K.

Its warm, welcoming light makes the EYE CERA ARC 2500K lamp perfect for applications and settings that require a softer light with a premium accent - such as hotel lobbies, or commercial and retail applications.





## PHYSICAL DATA AND CHARACTERISTICS

Type	Watts (W)	Bulb	Base	Bulb Finish	Std. Pkg. Qty.	Colour Temp. (K)	Lamp		Initial Lumens (lm)	Ra	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
							Voltage (V)	Current (A)						
<b>EYE CERA ARC 2500K TP -E27</b>														
CMT70/LW925-E27	70	T30	E27	Clear	24	2500	85	0.86	5500	93	20000	Any	1	ECG
CMT70F/LW925-E27	70	T30	E27	Diffused	24	2500	85	0.86	5400	93	20000	Any	1	ECG
CMT150/LW925-E27	150	T30	E27	Clear	24	2500	90	1.67	12000	93	20000	Any	2	ECG
CMT150F/LW925-E27	150	T30	E27	Diffused	24	2500	90	1.67	12000	93	20000	Any	2	ECG
<b>EYE CERA ARC 2500K T -G12</b>														
CMT70/LW925-G12	70	T20	G12	Clear	24	2500	85	0.86	6200	93	20000	Any	3	ECG
<b>EYE CERA ARC 2500K PAR36 -E27</b>														
CM70P36S/LW925	70	PAR36 (111)	E27	Spot	10	2500	85	0.86	5000	93	15000	Any	4	ECG
CM70P36F/LW925	70	PAR36 (111)	E27	Flood	10	2500	85	0.86	4400	93	15000	Any	4	ECG
CM150P36S/LW925	150	PAR36 (111)	E27	Spot	10	2500	90	1.67	12000	93	15000	Any	4	ECG
CM150P36F/LW925	150	PAR36 (111)	E27	Flood	10	2500	90	1.67	12000	93	15000	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.

## FEATURES

- Fits in existing EYE SDX (white sodium lamp) luminaires.
- Warm accent created by ceramic technology is virtually identical to incandescent lighting with pure colour Ra93.
- At 20000hrs, EYE CERA ARC 2500K offers more than tripled the average life time of existing EYE SDX (white sodium lamp) 70W installations, leading to savings on maintenance costs, reductions in waste, and reduced environmental impact.
- UV reduction coating on outer bulb prevents lit objects from fading and maintains high output with polycarbonate lenses.
- Beam angle (°) and Max. light intensity (cd) for PAR36 type
 

CM70P36S/LW925	30°	7100cd
CM70P36F/LW925	75°	1800cd
CM150P36S/LW925	35°	12000cd
CM150P36F/LW925	70°	5000cd

Restaurant

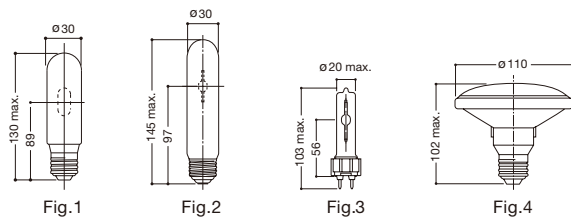
Hospitality

Boutique

Bakery

Street

Landscape





# EYE CERA ARC Natural Red

## **Accentuates refined reds**

Ceramic metal halide lamp with a high red colour rendering.

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.



## PHYSICAL DATA AND CHARACTERISTICS

Type	Watts (W)	Bulb	Base	Bulb Finish	Std. Pkg. Qty.	Colour Temp. (K)	Lamp		Initial Lumens (lm)	Ra	R9	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
							Voltage (V)	Current (A)							
<b>EYE CERA ARC Natural Red TC - G8.5</b>															
CMT35/NR/G8.5	39	T15	G8.5	Clear	24	3600	85	0.46	3150	90	70	12000	Any	1	ECG
CMT70/NR/G8.5	73	T15	G8.5	Clear	24	3600	85	0.86	6300	92	90	12000	Any	1	ECG
<b>EYE CERA ARC Natural Red T - G12</b>															
CMT35/NR/G12	39	T15	G12	Clear	24	3600	85	0.46	3150	90	70	12000	Any	2	ECG
CMT70/NR/G12	73	T20	G12	Clear	24	3600	85	0.86	6600	92	90	12000	Any	3	ECG
CMT150/NR/G12	150	T20	G12	Clear	24	3600	90	1.67	13500	90	90	16000	Any	4	ECG
<b>EYE CERA ARC Natural Red TP - Tubular Protected E27 screw base</b>															
CMT70/NR	70	T30	E27	Clear	12	3600	90	0.95	5100	92	70	9000	Any	5	
CMT70F/NR	70	T30	E27	Diffused	12	3600	90	0.95	4900	92	70	9000	Any	5	
CMT150/NR/T30	150	T30	E27	Clear	12	3600	90	1.67	11500	92	90	12000	Any	6	ECG
CMT150F/NR/T30	150	T30	E27	Diffused	12	3600	90	1.67	11000	92	90	12000	Any	6	ECG
CMT150/NR	150	T40	E27	Clear	12	3600	95	1.90	11500	92	90	9000	Any	7	
CMT150F/NR	150	T40	E27	Diffused	12	3600	95	1.90	11000	92	90	9000	Any	7	

Type	Watts (W)	Base	Std. Pkg. Qty.	Colour Temp. (K)	Lamp		Beam Angle (°)	Max. light Intensity (cd)	Ra	R9	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.
					Voltage (V)	Current (A)								
<b>EYE CERA ARC Natural Red PAR36 - E27 screw base</b>														
CM70P36S/NR	70	E27	10	3600	90	0.95	27	9000	92	70	9000	Any	8	
CM70P36F/NR	70	E27	10	3600	90	0.95	70 x 75	2000	92	70	9000	Any	8	
CM150P36S/NR	150	E27	10	3600	95	1.90	32	14500	92	90	9000	Any	8	
CM150P36F/NR	150	E27	10	3600	95	1.90	70	5000	92	90	9000	Any	8	

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

## FEATURES

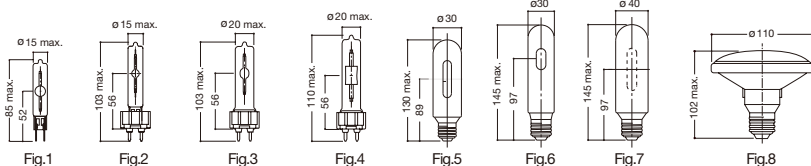
- Excellent rendition and resolution of red colours.
- R9:  $\geq 90$  is one of the highest colour rendering ratings of red in any metal halide or ceramic metal halide lamp.
- Ideal for more than just red - this lamp renders other colours including greens, blues and whites with greater accuracy.
- UV reduction coating on outer bulb prevents lit objects from fading and maintains high output with polycarbonate lenses.

Floral Display

Meat & Fish Display

Produce Display

Boutique



The Garden Jiyugaoka Meguro, Tokyo



# EYE TWIN CERA ARC

— Double ARC tube Ceramic Metal Halide Lamp —

## Extra long lamp life achieved through twin arc tube design

An exceptional rated lamp life of 50000hrs is achieved through incorporating 2 ceramic metal halide arc tubes into one lamp. At 110lm/W (230W version), the level of efficiency provided by the EYE TWIN CERA ARC places it on a par with LED lighting.

Thanks to the resulting reductions in consumption, CO<sub>2</sub> emissions, and maintenance costs, the EYE TWIN CERA ARC is both a cost- and environmentally- sound lamp.



## PHYSICAL DATA AND CHARACTERISTICS

Type	Watts (W)	Bulb	Base	Bulb Finish	Std. Pkg. Qty.	Colour Temp. (K)	Lamp		Initial Lumens (lm)	Ra	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
							Voltage (V)	Current (A)						
<b>EYE TWIN CERA ARC</b>														
CM150FTW-W/BUD	150	BT116	E40	Diffused	6	4100	95	1.90	15800	70	50000	BU/BD ±45°	1	1
CM230FTW-W/BUD	230	BT118	E40	Diffused	6	4100	130	2.13	25900	80	50000	BU/BD ±15°	2	2

Lamps marked "1" in the Ref. column should be operated on a HPS ballast with ignitor (3.5-5.0kV pulse height is required).

Lamps marked "2" in the Ref. column should be operated on a reactor type ballast for MVL with ignitor (3.5-5.0kV pulse height is required).

### FEATURES

- Industry-leading lamp life of 50000hrs.
- Over 40% reduction in energy consumption, brightness equal to a 400W metal halide lamp, achieved with only 230W.
- 1/3 re-strike time compared with EYE CERA ARC ACE PRO. Suitable for installations which are switched on/off frequently.
- UV-Cut coating reduces the number of insects attracted towards the light.
- Ideal for hard-to-reach installations such as parks, industrial and sports facilities.
- Short start-up time of 5 minutes - ideal for applications involving frequent switching.
- Shrouded arc tube design ensures the lamps are safe for use in open fixtures.

### APPLICATIONS

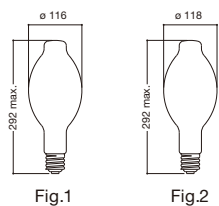
- Parks and public spaces
- Warehouses / Factories / Sports Halls

Warehouse

Manufacturing

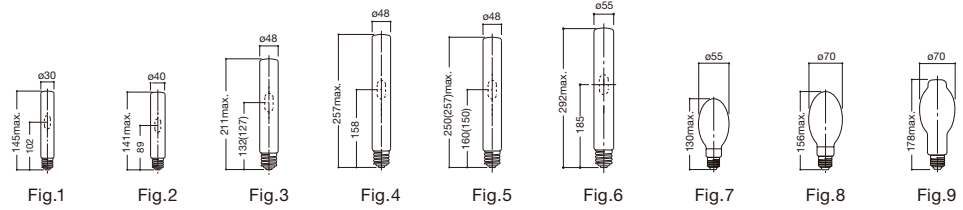
Gymnasium

Retail



Tsuzuki Sports Center Yokohama, Kanagawa

# EYE CERA ARC EX



## PHYSICAL DATA AND CHARACTERISTICS

Type	Watts (W)	Bulb	Base	Bulb Finish	Std. Pkg. Qty.	Colour Temp. (K)	Lamp		Initial Lumens (lm)	Ra	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.
							Voltage (V)	Current (A)						
<b>EYE CERA ARC EX T - E27, E40 screw base</b>														
CMT50/EX/U	50	T30	E27	Clear	12	3500	80	0.76	5000	75	18000	Any	1	1
CMT50/EX/U-I	50	T30	E27	Clear	12	3500	80	0.76	5000	75	18000	Any	1	2
CMT70/EX/U	70	T30	E27	Clear	12	3500	85	0.98	7700	75	18000	Any	1	1
CMT70/EX/U-I	70	T30	E27	Clear	12	3500	85	0.98	7700	75	18000	Any	1	2
CMT100/EX/U-E27	100	T40	E27	Clear	12	3500	95	1.20	11500	75	18000	Any	2	1
CMT100/EX/U	100	T48	E40	Clear	12	3500	95	1.20	11500	75	18000	Any	3	1
CMT100/EX/U-I	100	T48	E40	Clear	12	3500	95	1.20	11500	75	18000	Any	3	2
CMT150/EX/HOR-E27	150	T40	E27	Clear	12	3500	100	1.80	17300	75	24000	BH±45°	2	1
CMT150/EX/HOR*	150	T48	E40	Clear	12	3500	100	1.80	17300	75	24000	BH±45°	3	1
CMT250/EX/HOR	250	T48	E40	Clear	12	3500	100	3.00	33000	80	24000	BH±45°	4	1
<b>EYE CERA ARC EX T - E40 screw base / with UC cut coating</b>														
CMT220/EX/HOR	230	T48	E40	Clear	12	3500	130	2.13	27700	75	24000	BH±45°	5	3
CMT360/EX/HOR	375	T55	E40	Clear	12	3500	135	3.25	45000	75	24000	BH±45°	6	3
<b>EYE FEC CERA ARC ACE EX - E, BT, T - E27, E40 screw base</b>														
CM45FLS/EX/HOR	45	E55	E27	Diffused	30	3500	90	0.61	4100	75	16000	BH±60°	7	4
CM45FLS/EX/BUD	45	E55	E27	Diffused	30	3500	90	0.61	4100	75	16000	BU/BD±30°	7	4
CM70FLS/EX/HOR	72	E70	E27	Diffused	24	3500	105	0.80	7700	75	20000	BH±60°	8	4
CM70FLS/EX/BUD	72	E70	E27	Diffused	24	3500	105	0.80	7700	75	20000	BU/BD±30°	8	4
CM115FLS/EX/HOR	115	BT70	E27	Diffused	24	3500	115	1.15	13800	75	24000	BH±45°	9	4
CM115FLS/EX/BUD	115	BT70	E27	Diffused	24	3500	125	1.15	13800	75	24000	BU/BD±45°	9	4
CMT220LS/EX/HOR*	230	T48	E40	Clear	12	3500	130	2.13	27700	75	24000	BH±45°	5	4
CMT360LS/EX/HOR*	375	T55	E40	Clear	12	3500	135	3.25	45000	75	24000	BH±45°	6	4

\* with UV cut coating

Lamps marked "1" in the Ref. column should be operated on a HPSL ballast with ignitor.

Lamps marked "2" in the Ref. column should be operated on a HPSL ballast without ignitor.

Lamps marked "3" in the Ref. column should be operated on a reactor type ballast for MVL with ignitor.

Lamps marked "4" in the Ref. column should be operated on a reactor type ballast for MVL without ignitor.

EYE CERA ARC EX offers numerous advantages in comparison to the low colour rendering 'orange' light produces by conventional High Pressure Sodium (HPS) lamps.

As white light improves the visibility of objects to the human eye, the same -or better- levels of visibility can be achieved with a higher lumen output.

### FEATURES

- Outstanding luminous efficacy : Up to 132lm/W
- Reliable long life : Up to 24000hrs at 80/70% lumen maintenance
- High colour rendering : Ra80/75
- Cleaner white light : 3500K

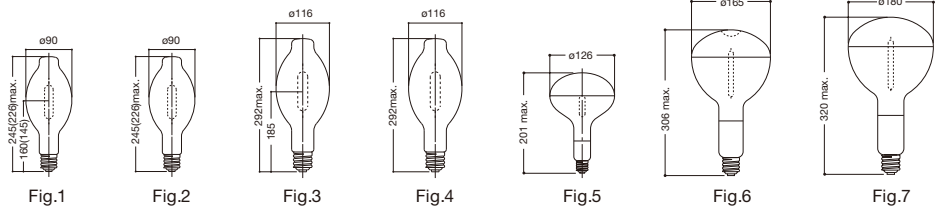
### APPLICATIONS

- Road lighting, street lighting, residential, historical, retail, any applications that currently use HPSL or MVL.



Niigata Station South Gate, Niigata

# EYE CERA ARC PRO



## PHYSICAL DATA AND CHARACTERISTICS

Type	Watts (W)	Bulb	Base	Bulb Finish	Std. Pkg. Qty.	Colour Temp. (K)	Lamp		Initial Lumens (lm)	Ra	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.
							Voltage (V)	Current (A)						
<b>EYE CERA ARC PRO BT Protected - E40 screw base / with UV cut coating</b>														
CM230/PRO/BUD	235	BT90	E40	Clear	12	4100	130	2.13	27900	80	24000	BU/BD±45°	1	1
CM230F/PRO/BUD	235	BT90	E40	Diffused	12	4100	130	2.13	25900	80	24000	BU/BD±45°	3	1
CM360/PRO/BUD	375	BT116	E40	Clear	12	4100	135	3.25	47000	80	24000	BU/BD±45°	2	1
CM360F/PRO/BUD	375	BT116	E40	Diffused	12	4100	135	3.25	45300	80	24000	BU/BD±45°	4	1
<b>EYE FEC CERA ARC ACE PRO BT Protected - E40 screw base / with UV cut coating</b>														
CM230LS/PRO/BUD	235	BT90	E40	Clear	12	4100	130	2.13	27900	80	24000	BU/BD±45°	1	2
CM230FLS/PRO/BUD	235	BT90	E40	Diffused	12	4100	130	2.13	25900	80	24000	BU/BD±45°	2	2
CM360LS/PRO/BUD	375	BT116	E40	Clear	12	4100	135	3.25	47000	80	24000	BU/BD±45°	3	2
CM360FLS/PRO/BUD	375	BT116	E40	Diffused	12	4100	135	3.25	45300	80	24000	BU/BD±45°	4	2

Type	Watts (W)	Bulb	Base	Bulb Finish	Std. Pkg. Qty.	Colour Temp. (K)	Lamp		Beam Angle (°)	Initial Lumens (lm)	Ra	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.
							Voltage (V)	Current (A)							
<b>EYE FEC CERA ARC ACE PRO R Protected - E40 screw base</b>															
CMR115LS/PRO/BU	115	R126	E40	Clear	6	4100	115	1.15	130	9000	70	18000	BU±60°	5	2
CMR230LS/PRO/BU	245	R165	E40	Clear	6	4100	130	2.16	130	18500	80	20000	BU±60°	6	2
CMR360LS/PRO/BU	375	R180	E40	Clear	6	4100	135	3.30	130	31500	80	20000	BU±60°	7	2

Lamps marked "1" in the Ref. column should be operated on a reactor type ballast for MVL with ignitor.  
Lamps marked "2" in the Ref. column should be operated on a reactor type ballast for MVL without ignitor.

EYE CERA ARC PRO offers reduction of the number of lamps -and the Carbon Footprint- of existing Mercury Vapour Lamp (MVL) or Metal Halide Lamp (MHL) installations in large spaces such as warehouses and sports facilities, without reducing the brightness.

### FEATURES

- Outstanding luminous efficacy : Up to 125 lm/W
- Reliable long life : Up to 24000hrs at 75% lumen maintenance
- High colour rendering : Ra80/70
- White light : 4100K
- Protected from the inside (shrouded)

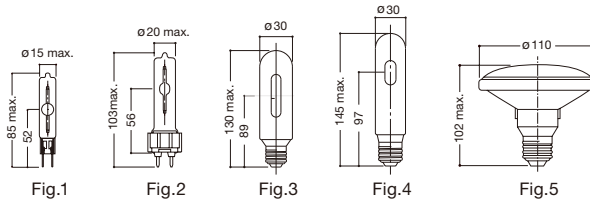
### APPLICATIONS

- Road lighting, street lighting, residential, historical, retail, any applications that currently use HPSL or MVL.
- High bay applications of sports facilities (gymnastic halls), warehouses, industrial plants, large scale commercial facilities, any applications that currently use MVL/MHL.



Ukiha Arena, Fukuoka

# EYE CERA ARC 2800K



## PHYSICAL DATA AND CHARACTERISTICS

Type	Watts (W)	Bulb	Base	Bulb Finish	Std. Pkg. Qty.	Colour Temp. (K)	Lamp		Initial Lumens (lm)	Ra	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
							Voltage (V)	Current (A)						
<b>EYE CERA ARC 2800K TC - G8.5 base</b>														
CMT70/LW928/G8.5	70	T15	G8.5	Clear	24	2800	85	0.82	6600	92	12000	Any	1	ECG
<b>EYE CERA ARC 2800K T - G12 base</b>														
CMT70/LW928/G12	70	T20	G12	Clear	24	2800	85	0.82	6600	92	12000	Any	2	ECG
<b>EYE CERA ARC 2800K TP - Tubular Protected E27 screw base</b>														
CMT70/LW928	73	T30	E27	Clear	12	2800	85	0.86	6000	94	12000	Any	3	ECG
CMT70F/LW928	73	T30	E27	Diffused	12	2800	85	0.86	5800	94	12000	Any	3	ECG
CMT150/LW928	150	T30	E27	Clear	12	2800	90	1.67	13500	95	12000	Any	4	ECG
CMT150F/LW928	150	T30	E27	Diffused	12	2800	90	1.67	13000	95	12000	Any	4	ECG

Type	Watts (W)	Base	Std. Pkg. Qty.	Colour Temp. (K)	Lamp		Beam Angle (°)	Max. light Intensity (cd)	Ra	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
					Voltage (V)	Current (A)							
<b>EYE CERA ARC 2800K PAR36 - E27 screw base</b>													
CM70P36S/LW928	70	E27	10	2800	85	0.82	30	7500	92	12000	Any	5	ECG
CM70P36F/LW928	70	E27	10	2800	85	0.82	70	2300	92	12000	Any	5	ECG
CM150P36S/LW928	150	E27	10	2800	90	1.67	30	16000	95	9000	Any	5	ECG
CM150P36F/LW928	150	E27	10	2800	90	1.67	70	5500	95	9000	Any	5	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.

Superior colour rendering, 2800K warm incandescent colour with ceramic metal halide lamp efficacy.

### FEATURES

- Ra95 - the highest colour rendering in warm colour HID lamps.
- 1.7 times higher than output than high CRI white sodium lamp. (Comparison of EYE SDX: 2500K, Ra85 white sodium lamp)
- 3 to 5 times more efficient and up to 5 times longer life than halogen or incandescent lamps.
- R9: up to 60, high red colour rendering.
- UV reduction coating on outer bulb prevents lit objects from fading and maintains high output with polycarbonate lenses.



Press Pivot, Hokkaido



# EYE CERA ARC 5500K

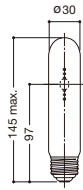


Fig.1

## PHYSICAL DATA AND CHARACTERISTICS

Type	Watts (W)	Bulb	Base	Bulb Finish	Std. Pkg. Qty.	Colour Temp. (K)	Lamp		Initial Lumens (lm)	Ra	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
							Voltage (V)	Current (A)						
<b>EYE CERA ARC 5500K TP - Tubular Protected E27 screw base</b>														
CMT150/N	150	T30	E27	Clear	12	5500	90	1.67	12500	95	9000	Any	1	ECG
CMT150F/N	150	T30	E27	Diffused	12	5500	90	1.67	12000	95	9000	Any	1	ECG

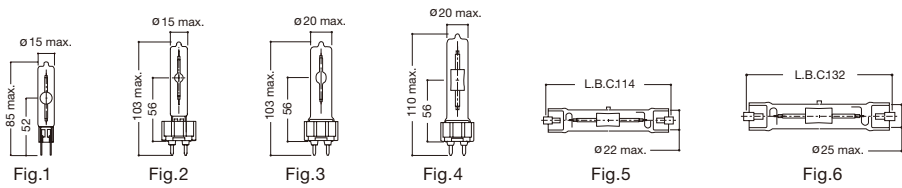
\* Lamps marked ECG in the Ref. column must be used with electronic ballasts manufactured by or approved by Iwasaki Electric to ensure correct operation.

## FEATURES

- Ra: 95, high colour rendering.
- Provides approx. 13% higher lumens than other high colour temperature CRI metal halide lamps.
- R9:  $\geq 70$ , high red colour rendering.
- UV reduction coating on outer bulb prevents lit objects from fading and maintains high output with polycarbonate lenses.



# EYE CERA ARC TC, T, TD



## PHYSICAL DATA AND CHARACTERISTICS

Type	Watts (W)	Bulb	Base	Bulb Finish	Std. Pkg. Qty.	Colour Temp. (K)	Lamp		Initial Lumens (lm)	Ra	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
							Voltage (V)	Current (A)						
<b>EYE CERA ARC TC - G8.5 base</b>														
CMT35/LW/G8.5	39	T15	G8.5	Clear	24	3000	85	0.46	3300	90	12000	Any	1	ECG
CMT35/WW/G8.5	39	T15	G8.5	Clear	24	3500	85	0.46	3300	90	12000	Any	1	ECG
CMT35/W/G8.5	39	T15	G8.5	Clear	24	4200	85	0.46	3300	90	12000	Any	1	ECG
CMT70/LW/SH/G8.5	73	T15	G8.5	Clear	24	3000	85	0.86	7500	90	15000	Any	1	ECG
CMT70/WW/SH/G8.5	73	T15	G8.5	Clear	24	3500	85	0.86	7700	90	15000	Any	1	ECG
CMT70/W/SH/G8.5	73	T15	G8.5	Clear	24	4200	85	0.86	7500	94	12000	Any	1	ECG
<b>EYE CERA ARC T - G12 base</b>														
CMT35/LW/G12	39	T15	G12	Clear	24	3000	85	0.46	3300	90	12000	Any	2	ECG
CMT35/WW/G12	39	T15	G12	Clear	24	3500	85	0.46	3300	90	12000	Any	2	ECG
CMT35/W/G12	39	T20	G12	Clear	24	4200	85	0.46	3300	90	12000	Any	2	ECG
CMT70/LW/SH/G12	73	T20	G12	Clear	24	3000	85	0.86	7500	90	15000	Any	3	ECG
CMT70/WW/SH/G12	73	T20	G12	Clear	24	3500	85	0.86	7700	90	15000	Any	3	ECG
CMT70/W/SH/G12	73	T20	G12	Clear	24	4200	85	0.86	7500	94	15000	Any	3	ECG
CMT150/LW/G12	150	T20	G12	Clear	24	3000	90	1.82	16000	93	12000	Any	4	
CMT150/WW/G12	150	T20	G12	Clear	24	3500	90	1.82	16000	95	12000	Any	4	
CMT150/W/G12	150	T20	G12	Clear	24	4200	90	1.82	16000	93	12000	Any	4	
<b>EYE CERA ARC TD - Double ended</b>														
CMTD70/DW	70	T22	RX7s	Clear	24	3200	90	0.95	6500	90	9000	BH±45°	5	
CMTD70/WW	70	T22	RX7s	Clear	24	3500	90	0.95	6000	90	9000	BH±45°	5	
CMTD70/W	70	T22	RX7s	Clear	24	4300	90	0.95	6000	90	9000	BH±45°	5	
CMTD150/DW	150	T22	RX7s	Clear	24	3200	95	1.90	13500	90	12000	BH±45°	6	
CMTD150/WW	150	T22	RX7s	Clear	24	3500	95	1.90	13500	94	12000	BH±45°	6	
CMTD150/W	150	T22	RX7s	Clear	24	4300	95	1.90	13500	94	12000	BH±45°	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.

High colour rendering ceramic metal halide lamp.  
The colour rendering index (Ra) is a measure of how accurately an artificial light source can render colour.

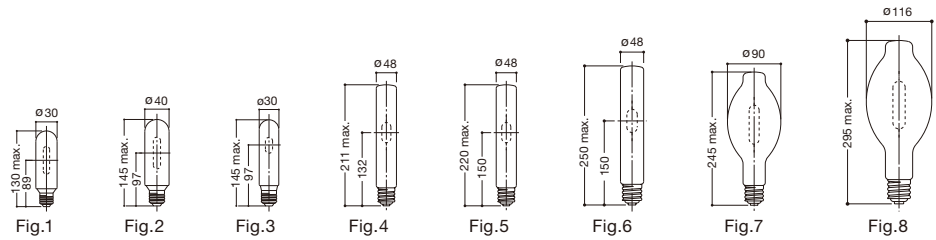
### FEATURES

- Most of the EYE CERA ARC models including warm 3000K range colour temperature types have  $Ra \geq 90$ , the highest level of colour rendering index.
- UV reduction coating on outer bulb prevents lit objects from fading and maintains high output with polycarbonate lenses.



Alpha Big Bike Mall, Niigata

# EYE CERA ARC TP, T, BT -screw base-



## PHYSICAL DATA AND CHARACTERISTICS

Type	Watts (W)	Bulb	Base	Bulb Finish	Std. Pkg. Qty.	Colour Temp. (K)	Lamp		Initial Lumens (lm)	Ra	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
							Voltage (V)	Current (A)						
<b>EYE CERA ARC TP - Tubular Protected E27 screw base</b>														
CMT35/LW	39	T30	E27	Clear	12	3000	85	0.46	3150	90	12000	Any	1	ECG
CMT35F/LW	39	T30	E27	Diffused	12	3000	85	0.46	3000	90	12000	Any	1	ECG
CMT35/DW	39	T30	E27	Clear	12	3200	85	0.46	3150	83	12000	Any	1	ECG
CMT35D/DW	39	T30	E27	Diffused	12	3200	85	0.46	3000	83	12000	Any	1	ECG
CMT35/W	39	T30	E27	Clear	12	4200	85	0.46	3150	90	12000	Any	1	ECG
CMT35F/W	39	T30	E27	Diffused	12	4200	85	0.46	3000	90	12000	Any	1	ECG
CMT70/DW	70	T30	E27	Clear	12	3200	90	0.95	6700	90	12000	Any	1	
CMT70F/DW	70	T30	E27	Diffused	12	3200	90	0.95	6500	90	12000	Any	1	
CMT70/WW	70	T30	E27	Clear	12	3500	90	0.95	7000	90	12000	Any	1	
CMT70F/WW	70	T30	E27	Diffused	12	3500	90	0.95	6800	90	12000	Any	1	
CMT70/W	70	T30	E27	Clear	12	4200	90	0.95	6700	90	12000	Any	1	
CMT70F/W	70	T30	E27	Diffused	12	4200	90	0.95	6500	90	12000	Any	1	
CMT150/DW	150	T40	E27	Clear	12	3200	95	1.90	15000	95	12000	Any	2	
CMT150F/DW	150	T40	E27	Diffused	12	3200	95	1.90	14400	95	12000	Any	2	
CMT150/WW	150	T40	E27	Clear	12	3500	95	1.90	15000	95	12000	Any	2	
CMT150F/WW	150	T40	E27	Diffused	12	3500	95	1.90	14400	95	12000	Any	2	
CMT150/W	150	T40	E27	Clear	12	4200	95	1.90	15000	95	12000	Any	2	
CMT150F/W	150	T40	E27	Diffused	12	4200	95	1.90	14400	95	12000	Any	2	
<b>EYE CERA ARC High Efficacy and Dimmable TP - Tubular Protected E27 screw base</b>														
CMT150/DW/SH	150	T30	E27	Clear	12	3200	90	1.67	15000	90	21000	Any	3	ECG
CMT150F/DW/SH	150	T30	E27	Diffused	12	3200	90	1.67	14400	90	21000	Any	3	ECG
CMT150/WW/SH	150	T30	E27	Clear	12	3500	90	1.67	15000	92	21000	Any	3	ECG
CMT150F/WW/SH	150	T30	E27	Diffused	12	3500	90	1.67	14400	92	21000	Any	3	ECG
CMT150/W/SH	150	T30	E27	Clear	12	4200	90	1.67	15000	92	21000	Any	3	ECG
CMT150F/W/SH	150	T30	E27	Diffused	12	4200	90	1.67	14400	92	21000	Any	3	ECG
<b>EYE CERA ARC T - Tubular E40 operates on ballast for 150W high pressure sodium</b>														
CMT150/LW/HOR/E40	150	T48	E40	Clear	12	3000	100	1.80	16000	83	12000	BH±15°	4	
CMT150/W/HOR/E40	150	T48	E40	Clear	12	4100	100	1.80	15500	92	12000	BH±15°	4	
<b>EYE CERA ARC TP - Tubular Protected E40 screw base operates on Iwasaki electronic ballast</b>														
CMT250/W/BUD/2	250	T48	E40	Clear	12	4100	100	3.00	23800	90	12000	BU/BD±60°	5	ECG
CMT400/W/BUD	400	T48	E40	Clear	12	4100	100	4.70	38000	90	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	BT90	E40	Diffused	12	4100	100	3.00	22500	90	12000	BU/BD±60°	7	ECG
CM400FCE-W/BUD	400	BT116	E40	Diffused	12	4100	100	4.70	36000	90	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.

Screw base, high colour rendering ceramic metal halide lamp.

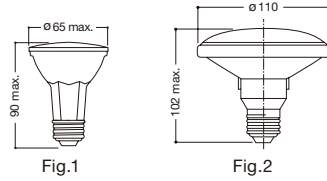
TP: Tubular "Protected" bulb with E27 type fits a wide variety of applications such as façade lighting, wall wash lighting.

The protected lamps can be used without glass cover.

## FEATURES

- Clear and frosted bulbs are available.
- UV reduction coating on outer bulb prevents lit objects from fading and maintains high output with polycarbonate lenses.

# EYE CERA ARC PAR20, PAR36



## PHYSICAL DATA AND CHARACTERISTICS

Type	Watts (W)	Base	Std. Pkg. Qty.	Colour Temp. (K)	Lamp		Beam Angle (°)	Max. Light Intensity (cd)	Ra	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.*
					Voltage (V)	Current (A)							
<b>EYE CERA ARC PAR20 - E27 screw base</b>													
CM35P20S/LW	39	E27	12	3000	85	0.46	10	23000	90	9000	Any	1	ECG
CM35P20F/LW	39	E27	12	3000	85	0.46	23	7500	90	9000	Any	1	ECG
CM35P20S/W	39	E27	12	4200	85	0.46	10	21500	90	9000	Any	1	ECG
CM35P20F/W	39	E27	12	4200	85	0.46	23	7500	90	9000	Any	1	ECG
<b>EYE CERA ARC PAR36 - E27 screw base</b>													
CM70P36S/DW	70	E27	10	3200	90	0.95	27	10000	90	9000	Any	2	
CM70P36F/DW	70	E27	10	3200	90	0.95	70 x 75	2200	90	9000	Any	2	
CM70P36S/WW	70	E27	10	3500	90	0.95	27	10000	90	9000	Any	2	
CM70P36F/WW	70	E27	10	3500	90	0.95	70 x 75	2200	90	9000	Any	2	
CM70P36S/W	70	E27	10	4300	90	0.95	27	10000	90	9000	Any	2	
CM70P36F/W	70	E27	10	4300	90	0.95	70 x 75	2200	90	9000	Any	2	
CM70P36S/P	70	E27	10	PINK	85	0.82	27	1800	==	9000	Any	2	
CM70P36F/P	70	E27	10	PINK	85	0.82	50	5200	==	9000	Any	2	
CM150P36S/DW	150	E27	10	3200	95	1.90	32	16000	93	9000	Any	2	
CM150P36F/DW	150	E27	10	3200	95	1.90	70	5500	93	9000	Any	2	
CM150P36S/WW	150	E27	10	3500	95	1.90	32	16000	95	9000	Any	2	
CM150P36F/WW	150	E27	10	3500	95	1.90	70	5500	95	9000	Any	2	
CM150P36S/W	150	E27	10	4300	95	1.90	32	16000	95	9000	Any	2	
CM150P36F/W	150	E27	10	4300	95	1.90	70	5500	95	9000	Any	2	
CM150P36S/P	150	E27	10	PINK	95	1.90	35	9000	==	9000	Any	2	
CM150P36F/P	150	E27	10	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.

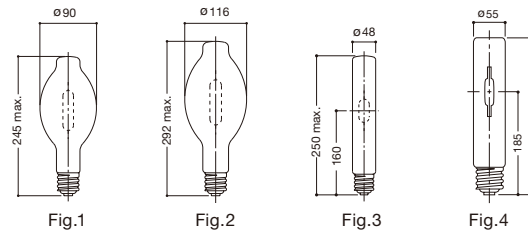
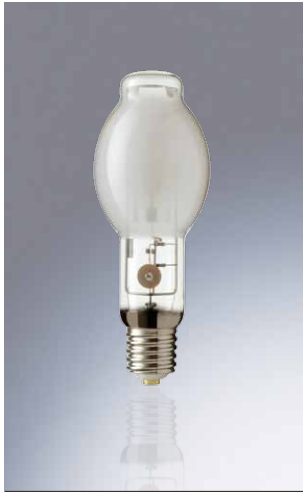
PAR type bulb with E27 screw base ceramic metal halide lamp.  
Various wattages and colour temperature types are available in PAR range.

### FEATURES

- Wide and spot beam types available.
- "Pink" type uses dichroic mirror instead of aluminium coated mirror to produce translucent pinkish colour ideal for food lighting and display lighting applications. Please find details of other available PAR36 colours on the 2500K, 2800K and Natural Red pages.



# EYE CERA ARC 220W, 360W



## PHYSICAL DATA AND CHARACTERISTICS

Type	Watts (W)	Bulb	Base	Bulb Finish	Std. Pkg. Qty.	Colour Temp. (K)	Lamp		Initial Lumens (lm)	Ra	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.
							Voltage (V)	Current (A)						
<b>EYE CERA ARC 220W/360W BT Protected - E40 screw base / with UV cut coating</b>														
CM220/W/BUD	235	BT90	E40	Clear	12	4100	130	2.13	23000	85	24000	BU/BD±15°	1	1
CM220F/W/BUD	235	BT90	E40	Diffused	12	4100	130	2.13	22000	85	24000	BU/BD±15°	1	1
CM360/W/SH/BUD	375	BT116	E40	Clear	12	4100	135	3.25	44000	80	24000	BU/BD±15°	2	1
CM360F/W/SH/BUD	375	BT116	E40	Diffused	12	4100	135	3.25	42000	80	24000	BU/BD±15°	2	1
<b>EYE CERA ARC 220W/360W T E40 screw base / with UV cut coating</b>														
CMT220/W/BH	235	T48	E40	Clear	12	4100	130	2.13	19800	85	21000	BH±15°	3	1
CMT360/W/BH	375	T55	E40	Clear	12	4100	135	3.25	33800	85	21000	BH±15°	4	1
<b>EYE CERA ARC ACE 220W/360W BT Protected - E40 screw base / with UV cut coating</b>														
CM220LS/W/BUD	235	BT90	E40	Clear	12	4100	130	2.13	23000	85	24000	BU/BD±15°	1	2
CM220FLS/W/BUD	235	BT90	E40	Diffused	12	4100	130	2.13	22000	85	24000	BU/BD±15°	1	2
CM360LS/W/SH/BUD	375	BT116	E40	Clear	12	4100	135	3.25	44000	80	24000	BU/BD±15°	2	2
CM360FLS/W/SH/BUD	375	BT116	E40	Diffused	12	4100	135	3.25	42000	80	24000	BU/BD±15°	2	2
<b>EYE CERA ARC ACE 220W/360W T E40 screw base / with UV cut coating</b>														
CMT220LS/W/BH	235	T48	E40	Clear	12	4100	130	2.13	19800	85	21000	BH±15°	3	2
CMT360LS/W/BH	375	T55	E40	Clear	12	4100	135	3.25	33800	85	21000	BH±15°	4	2

Lamps marked "1" in the Ref. column should be operated on a reactor type ballast for MVL with ignitor.  
Lamps marked "2" in the Ref. column should be operated on a reactor type ballast for MVL without ignitor.

Ceramic metal halide lamp for use with a reactor type ballast.  
Direct replacement for standard metal halide lamps or high pressure mercury lamps.

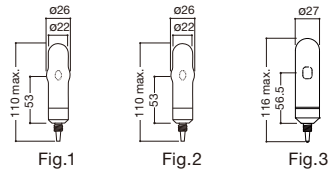
### FEATURES

- Saves 5 to 10% system wattage consumption per socket.
- High efficacy and highly maintained lumens support energy saving by reducing the number of luminaires required to achieve design lumens.
- Ra80-85, high colour rendering makes installations more productive and attractive with reduced colour shift and imperceptible lamp to lamp colour variation.
- Shrouded "Protected" design makes it possible to use in luminaires without glass front providing with low cost, high performance luminaires.
- UV reduction coating on outer bulb prevents lit objects from fading and maintains high output with polycarbonate lenses.



Komatsu Factory, Ibaraki

# EYE CERA ARC TCP



## PHYSICAL DATA AND CHARACTERISTICS

Type	Watts (W)	Bulb	Base	Bulb Finish	Std. Pkg. Qty.	Colour Temp. (K)	Lamp		Initial Lumens (lm)	Ra	Rated Av. Life (hrs)	Burning Position	Fig. No.	Ref.
							Voltage (V)	Current (A)						
<b>EYE CERA ARC TCP</b>														
MT35CE-L/EU10	35	T26	EU10	Clear	24	2800	85	0.49	3500	93	12000	Any	1	
MT35CE-LW/EU10	35	T26	EU10	Clear	24	3000	85	0.49	3600	93	12000	Any	1	
MT35CE-WW/EU10	35	T26	EU10	Clear	24	3500	85	0.49	3600	93	12000	Any	1	
MT35CE-W/EU10	35	T26	EU10	Clear	24	4200	85	0.49	3600	93	12000	Any	1	
MT35CE-NR/EU10	35	T26	EU10	Clear	24	3600	85	0.46	3300	92	12000	Any	1	**
MT70CE-L/EU10	70	T26	EU10	Clear	24	2800	85	0.86	7400	93	15000	Any	2	
MT70CE-LW/EU10	70	T26	EU10	Clear	24	3000	85	0.86	7700	93	15000	Any	2	
MT70CE-WW/EU10	70	T26	EU10	Clear	24	3500	85	0.86	7500	93	15000	Any	2	
MT70CE-W/EU10	70	T26	EU10	Clear	24	4200	85	0.86	7500	96	15000	Any	2	
MT70CE-NR/EU10	70	T26	EU10	Clear	24	3600	85	0.86	6700	92	15000	Any	2	**
MT90CE-LW/EU10	90	T27	EU10	Clear	12	3000	90	1.10	11500	95	18000	Any	3	*
MT90FCE-LW/EU10	90	T27	EU10	Diffused	12	3000	90	1.10	11000	95	18000	Any	3	*
MT90CE-WW/EU10	90	T27	EU10	Clear	12	3500	90	1.10	12000	95	18000	Any	3	*
MT90FCE-WW/EU10	90	T27	EU10	Diffused	12	3500	90	1.10	11500	95	18000	Any	3	*
MT90CE-W/EU10	90	T27	EU10	Clear	12	4200	90	1.10	11500	96	18000	Any	3	*
MT90FCE-W/EU10	90	T27	EU10	Diffused	12	4200	90	1.10	11000	96	18000	Any	3	*

\* Use with dedicated electronic ballasts.

\*\* "Natural Red" type

Note : This series are complied with Japanese standard only.

Special EU10 base type Compact ceramic metal halide lamp.  
Triplex jacket structure for open fixture.

### FEATURES

- Long life & high efficacy
- 15000hrs for 70W, 18000hrs for 90W, reduced maintenance cost
- Extremely high efficiency of up to 122lm/W (90W)
- Extremely high "Class 1A" colour rendering

### APPLICATIONS

- Base lighting of fresh produce / spot lighting / accent lighting / Signage / billboards.



RUGGEDWORKS, Kanagawa

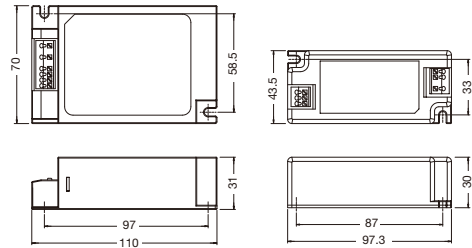
# EYE electronic ballast for EYE CERA ARC 70W/35W



70W



35W



70W

35W

Iwasaki range of electronic HID ballasts are designed to allow optimal performance of our CERA ARC lamps, offering reduced power consumption, regulated power through life, simplified circuitry and more stable lamp operation compared to conventional magnetic ballasts system.

### ADVANTAGES

- Good regulation against supply voltage variation
- Improved lamp colour consistency
- Elimination of lamp flicker
- Reduced weight of control gear
- Reduced electrical power losses
- Ballast noise reduced/eliminated
- Single piece compact unit
- Reduced wiring complexity in the luminaire
- Automatic lamp failure shut-down

### SAFETY

- EN61347-1 EN61347-2-12
- RoHS compliant (Reduction in Hazardous Substances)

### APPLICATIONS

- Minimum starting temperature:-20°C
- Maximum ambient temperature:55°C (integral)
- Maximum case temperature:85°C

Normal Lamp Wattage (W)	Rated Lamp Wattage (W)	Product Code	Input Voltage (V)	Input Wattage (W)	Input Current (A)	Input Power Factor
70	73	GA0.7ESH2.2/2.4-1	220-240	81	0.36	0.95
35	39	GA0.35ESH2.2/2.4-1		44	0.19	



↑ Looking in the direction of Tobu Railway Hikifune Station. Simple and modern sidewalk lamps, which incorporate elements of design that can be found in the buildings, are installed.

← The soft light from the sidewalk lamps illuminates the new streets and creates a sense of rhythm.

Installed Lamps / EYE CERA ARC 3200K/150W—13, EYE CERA ARC T 3000K/35W—5, FEC CERA ARC ACE 3000K/150W—5

## Class 1 Urban District Redevelopment Project in the Area in Front of Hikifune Station / Sumida Ward, Tokyo Metropolitan Prefecture

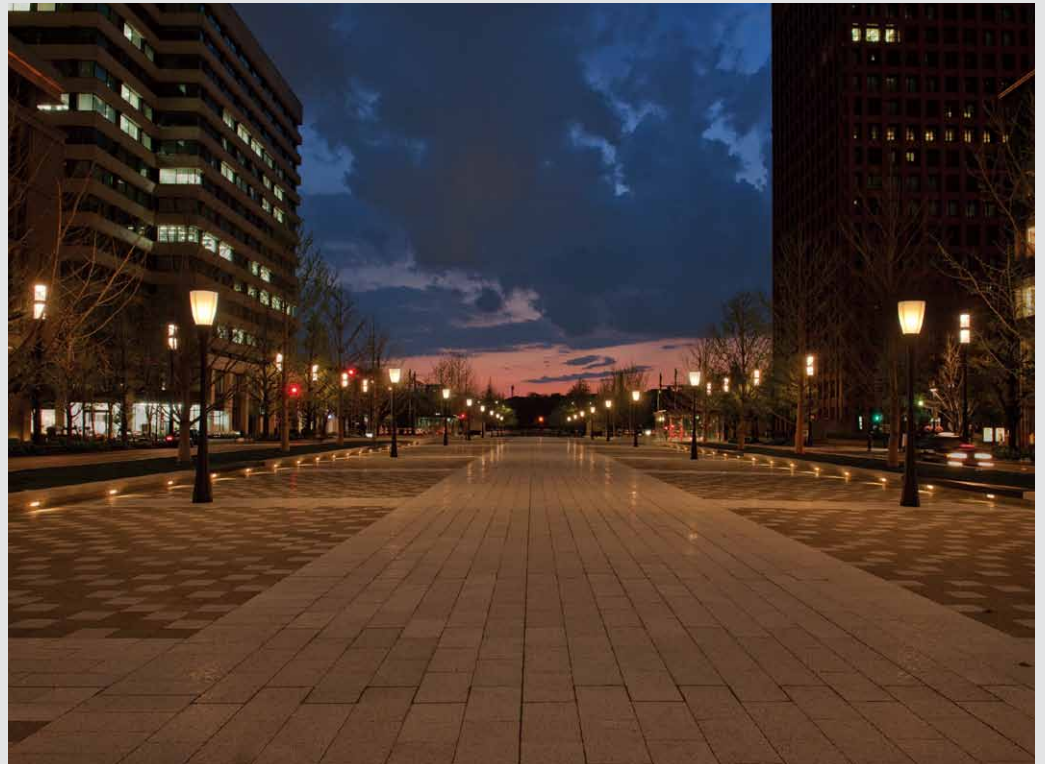
Gently illuminating the newly refurbished streets with pleasant lighting



↑ Looking towards Tokyo Station. Walkway lights are installed along the plaza-like walkway/carriageway.

→ Gyoko Dori during the evening, extending in a straight line from Tokyo Station to the Imperial Palace. This symbolic road is bathed in a gentle warm light.

Installed Lamps / EYE CERA ARC 2800K/150W—64, EYE SDX 2500K/100W—18



## Gyoko Dori / Chiyoda Ward, Tokyo Metropolitan Prefecture

Lighting befitting the status of a symbolic road of Japan





↑ In Parts Building A, fixtures for high ceilings and FEC CERA ARC ACE are combined to create a pleasant lighting environment that is also energy-saving.

← In Train Carriage Building C, light from FEC CERA ARC ACE lamps installed in the high ceiling brightly and evenly illuminates the space and creates a pleasant working environment.

Installed Lamps / EYE CERA ARC ACE 360W-405, EYE CERA ARC ACE 270W-190, EYE CERA ARC ACE 230W-60, Fluorescent Lamp 32W-156

## East Japan Railway Company's Omiya General Rolling Stock Center / Saitama City, Saitama Prefecture

Light from FEC CERA ARC ACE pleasantly illuminates this large rolling stock center and contributes to saving energy and reducing CO2 emissions



↑ L-CUBE spotlights (EYE CERA ARC 4200K/70W) are installed in the meat and fish section to create a high quality visual environment. The interior is accentuated by varying the color temperature, such as by the use of EYE CERA ARC 3000K to illuminate the walls.

→ Vegetables and fruits section. Light from EYE CERA ARC 4200K/70W with good color rendering properties brings out the natural colors of the produce. illuminate the walls.


















Installed Lamps / EYE CERA ARC TC 3500K/70W-19, EYE CERA ARC TC 3500K/35W-6, EYE CERA ARC TC 4200K/70W-66, EYE CERA ARC TC 4200K/35W-11



## Cupid Minami Shichiku / Niigata City, Niigata Prefecture

A plan to create pleasant lighting for a supermarket provides both a quality environment and energy-savings

# PRODUCT LINE-UP

Item	Base	Bulb Finish	35W					45W	50W	70W									
			2800K	3000K	3200K	3500K	4200K	Natural Red (3600K)	3500K	3500K	2500K	2800K	3000K	3200K	3500K	4200K	4300K	PINK	Natural Red (3600K)
EYE CERA ARC TP 	E27	Clear		○	○		○				○	○		○	○				○
		Diffused		○	○		○				○	○		○	○				○
EYE CERA ARC T 	G12	Clear		○		○	○	○			○	○	○		○	○			○
EYE CERA ARC TC 	G8.5	Clear		○		○	○	○				○	○		○	○			○
EYE CERA ARC PAR20 	E27	Spot		○			○												
		Flood		○			○												
EYE CERA ARC PAR36 	E27	Spot									○	○		○	○		○	○	○
		Flood									○	○		○	○		○	○	○
EYE CERA ARC TP 	E40	Clear																	
EYE CERA ARC T 	E40	Clear																	
EYE CERA ARC BT-P 	E40	Clear																	
		Diffused																	
EYE CERA ARC ACE BT-P 	E40	Clear																	
		Diffused																	
EYE CERA ARC ACE T 	E40	Clear																	
EYE CERA ARC EX T 	E27	Clear								○					○				
	E40	Clear																	
EYE CERA ARC EX ACE T 	E40	Clear																	
EYE CERA ARC ACE EX E/BT 	E27	Diffused								○					○				
EYE CERA ARC PRO BT 	E40	Clear																	
		Diffused																	
EYE CERA ARC ACE PRO BT/R 	E40	Clear																	
		Diffused																	
EYE TWIN CERA ARC 	E40	Diffused																	
EYE CERA ARC TCP 	EU10	Clear	○	○		○	○	○				○	○		○	○			○
		Diffused																	

90W			100W	115W		150W										220W		230W	250W		360W		400W			
3000K	3500K	4200K	3500K	3500K	4100K	2500K	2800K	3000K	3200K	3500K	4100K	4200K	4300K	5500K	PINK	Natural Red (3600K)	3500K	4100K	4100K	3500K	4100K	3500K	4100K	4100K		
						○	○			○	○			○		○										
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