IWASAKI Electric Co., Ltd.

IWASAKI LAMP SERIES

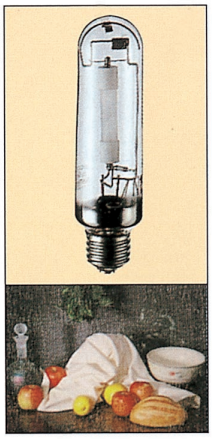
- SPECTRAL DISTRIBUTION (2500K-6500K Series)
- EYE COLOR ARC (2500K-6500K Series)
- EYE COLOR ARC RENAISSANCE & COLOUR LAMPS

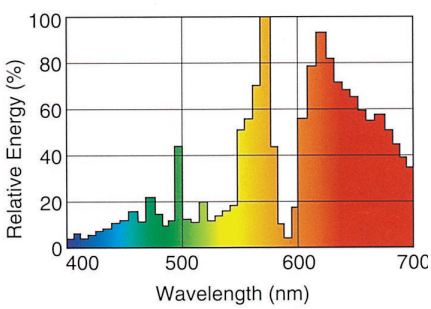


NANJI

Lamp Type	Spectral Distribution	Characteristics	Applications

EYE SDX Arc 2500K (NHT-SDX, NHT-FSDX)



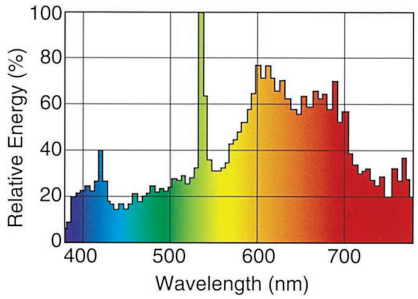


The EYE SDX range of lamps offer the advantages of the warm and friendly light of an incandescent source with all the benefits of an H.I.D. source.
Ra=82~85
Tc=2,500K

- Department stores
- Hotels
- Convention centers
- Shopping centers
- Showrooms
- Entrance foyers
- Display areas
- Feature spot lighting

EYE Color Arc 3000K (MT-SLW, MT-FSLW)

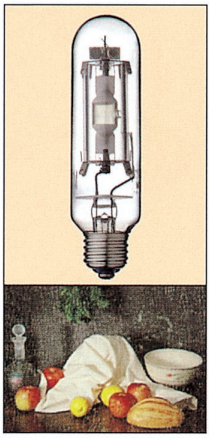


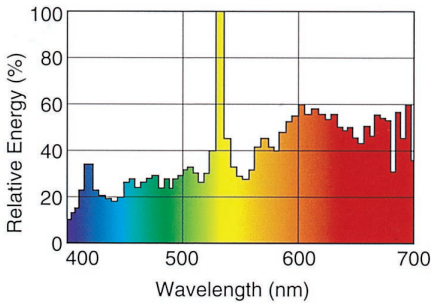


Warm, white incandescent light but with metal halide efficacy that is the 3000K Color Arc from EYE. Either on its own or in combination with tungsten halogen or incandescent light sources, this lamp is perfect for retail and commercial settings where high colour rendering and accurate shade matching properties are needed.
Ra=96
Tc=3,000K

- Retail shopping malls
- Merchandise displays
- Landscape lighting
- Showrooms
- Department stores
- Entrance foyers
- Feature spot lighting
- Hotel public areas

EYE Color Arc 3500K (MT-SDW, MT-FSDW)



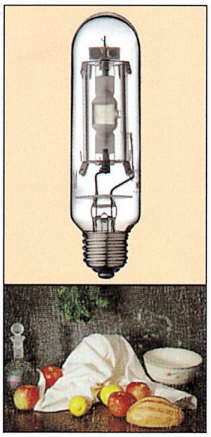


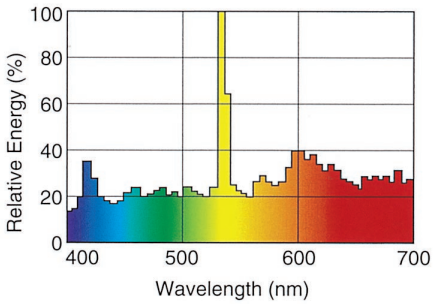
The ideal choice for interior commercial lighting. A metal halide lamp that offers the warm, natural light of an incandescent source with superior colour rendition and high efficacy found only in an H.I.D. source.
Ra=96
Tc=3,500K

- Retail shopping malls
- Merchandise displays
- Landscape lighting
- Showrooms
- Department stores
- Entrance foyers
- Feature spot lighting
- Hotel public areas

Lamp Type	Spectral Distribution	Characteristics	Applications

EYE Color Arc 4500K (MT-SW, MT-FSW)

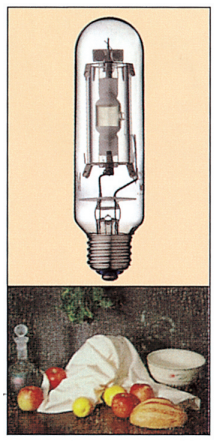


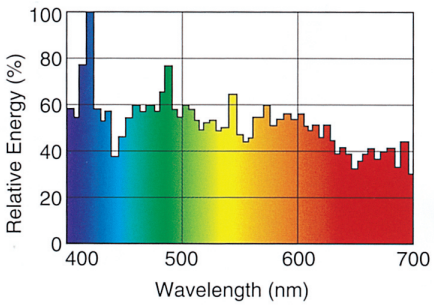


This lamp offers the neutral white colour. Excellent red appearance(R9=84) is another outstanding feature of both this and the 3,500K lamp above.
Ra=96
Tc=4,500K

- Retail shopping malls
- Merchandise displays
- Landscape lighting
- Showrooms
- Department stores
- Entrance foyers
- Feature spot lighting
- Hotel public areas

EYE Color Arc 6500K (MT-D, MT-FD)



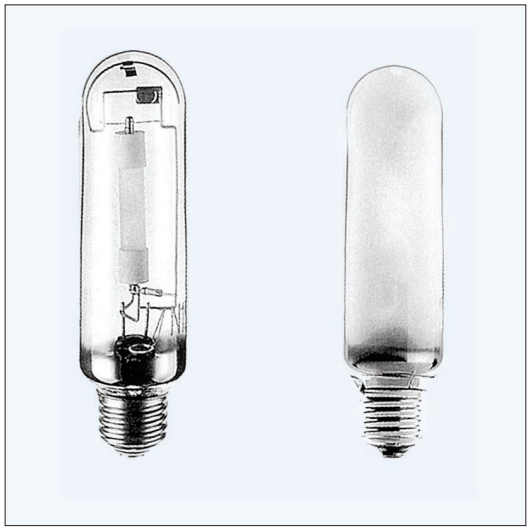


The EYE Color Arc 6500K compact metal halide lamp produces light which closely resembles natural sunlight. With its excellent colour rendition(Ra96) and phenomenal spectral distribution, it is an ideal system for applications where sunlight conditions are required.
Ra=96
Tc=6,500K

- Marine aquarium lighting
- Greenhouse illumination
- Painting factories
- Others







SUPER-COMPACT WHITE COLOUR

High intensity, high colour rendition, high efficacy, plus long service life, Iwasaki HID lamps incorporate these features in wattage 50, 70, 100, 150, 250 and 400W lamps. The white light produced by EYE SDX lamps is virtually identical to that produced by incandescent lamps : EYE SDX is a new, compact, high colour rendering HID lamp that looks and feels just like an incandescent lamp.

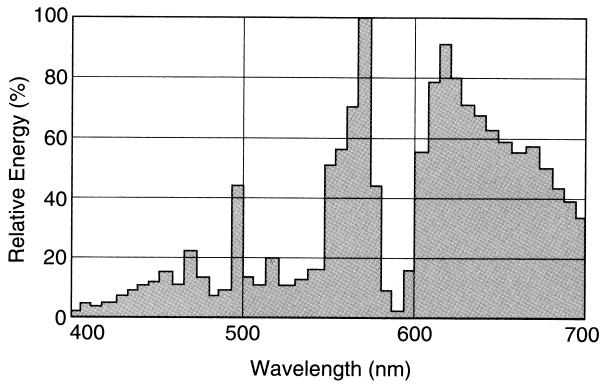
FEATURES

1. Compact construction along with precise light distribution control. Universal burning position provided by tubular hard glass bulb. E27 base
   E40 series lamps with high lumen and long life : An ideal choice for lighting systems.
2. Outstanding colour rendition and fresh, clear tints. Ra82-85
3. Warm white light virtually identical to incandescent lamps. 2500K
4. Approximately 3 to 5 times more efficient than incandescent lamps. 50 - 60 lm/W
5. 6,000 - 9,000 hours service life. Approximately 3 to 9 times that of incandescent lamps and tungsten halogen lamps.
6. Stronger against shocks and vibrations than filament lamps.
7. Emits very little UV radiation.
8. No front glass required for fixtures.
9. Uses specified ballasts.
10. Perfect for commercial applications, municipal applications and all other lighting applications where comfortable lighting is desired.

OPERATING INSTRUCTIONS

EYE SDX lamps operate on Iwasaki electronic ballasts and also dedicated ballasts & ignitors in the market.

SPECTRAL DISTRIBUTION



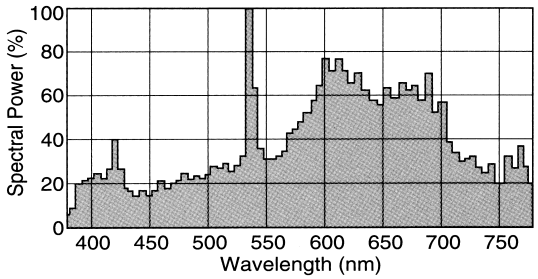


For applications which require natural, well-balanced light from a high efficiency light source.
You can choose from three different lighting atmospheres, warm white, neutral white or cool white.

FEATURES

1. Excellent colour rendition - Ra, R9(Red colour) is especially high
2. Warm white colour for colour temperature 3000K series
   (Neutral white colour for colour temperature 4500K series)
   (Cool white colour for colour temperature 6500K series)
3. Compact tubular bulb and E27 base(up to 150W)
4. Remarkable power savings due to high efficacy
5. Universal burning position
6. The outer bulb is made of UV-absorbing hard glass and an add on UV cut coating(E27 base lamps)
7. Protective sleeve surrounding discharge tube allows operation in open fixtures for indoor use(up to 150W)

Spectral distribution 3000K



CHARACTERISTICS 3000K Series

Type	Watts (W)	Base	Bulb	Std. Pkg. Qty.	M.O.L. (mm)	L.C.L. (mm)	Lamp		Approx. Initial Lumens (ℓm)	Ra	Rated Av. Life (hrs)	Fig. No.
							Voltage(V)	Current(A)				
Clear Type												
MT150SLW	150	E27	T40	12	155	97	95	1.9	9500	96	6000	1
MT150LW/G12	150	G12	T25	24	105	56	95	1.9	9500	96	6000	2
Frosted Type												
MT150FSLW	150	E27	T40	12	155	——	95	1.9	9000	96	6000	1

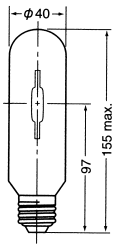


Fig.1

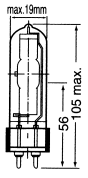
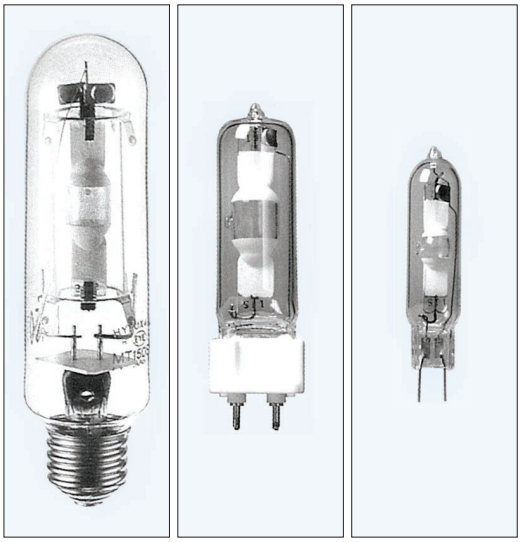


Fig.2
max.26mm—T25

BALLAST & IGNITOR

EYE Electronic Ballasts are available for the lamp operation with excellent performance.
or EYE Color Arc® can be operated on a standard HPS ballast or a metal halide ballast*, and ignitor for E27 base(70W, 150W) and E40 base(150W, 250W).

※ For safe operation and best performance, please contact Iwasaki or any local ballast manufacturer or ignitor manufacturer.

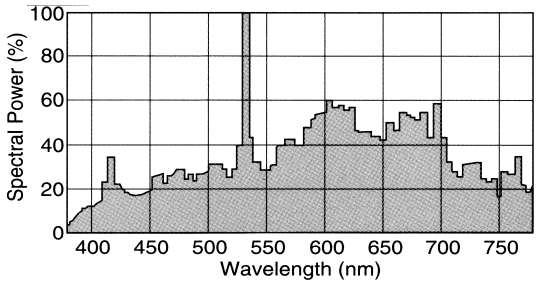


For applications which require natural, well-balanced light from a high efficiency light source.
You can choose from three different lighting atmospheres, warm white, neutral white or cool white.

FEATURES

1. Excellent colour rendition - Ra, R9(Red colour) is especially high.
2. Warm white colour for colour temperature 3500K series
   (Neutral white colour for colour temperature 4500K series)
   (Cool white colour for colour temperature 6500K series)
3. Compact tubular bulb and E27 base(up to 150W)
4. Remarkable power savings due to high efficacy
5. Universal burning position
6. The outer bulb is made of UV-absorbing hard glass and an add on UV cut coating(E27 base lamps)
7. Protective sleeve surrounding discharge tube allows operation in open fixtures for indoor use(up to 150W)

Spectral distribution 3500K



CHARACTERISTICS 3500K Series

Type	Watts (W)	Base	Bulb	Std. Pkg. Qty.	M.O.L (mm)	L.C.L. (mm)	Lamp		Approx. Initial Lumens (ℓm)	Ra	Rated Av. Life (hrs)	Fig. No.
							Voltage(V)	Current(A)				
Clear Type												
MT70SDW	70	E27	T35	12	140	89	90	1.0	4500	96	9000	1
MT100SDW ※1	100	E27	T35	12	140	89	95	1.3	6500	96	9000	1
MT150SDW	150	E27	T40	12	155	97	95	1.9	10000	96	12000	2
MT170SDW/G8.5	70	G8.5	T18	24	85	52	90	1.0	4500	96	6000	3
MT170SDW/G12	70	G12	T18	24	105	56	90	1.0	4500	96	6000	4
MT150SDW/G12	150	G12	T25	24	105	56	95	1.9	10000	96	6000	4
Frosted Type												
MT70FSDW	70	E27	T35	12	140	——	90	1.0	4300	96	9000	1
MT100FSDW ※1	100	E27	T35	12	140	——	95	1.3	6000	96	9000	1
MT150FSDW	150	E27	T40	12	155	——	95	1.9	9600	96	12000	2

※1 MT100SDW, MT100FSDW lamps require only EYE Electronic Ballast for the operation.

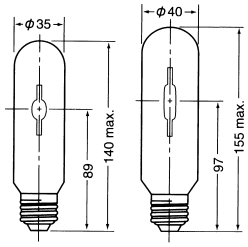


Fig.1

Fig.2

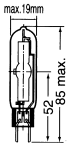


Fig.3

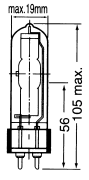
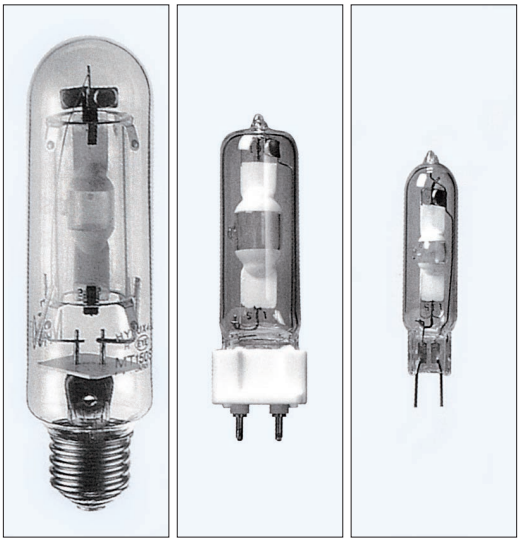


Fig.4
max.19mm—T18
max.26mm—T25

BALLAST & IGNITOR

EYE Electronic Ballasts are available for the lamp operation with excellent performance.
or EYE Color Arc® can be operated on a standard HPS ballast or a metal halide ballast*, and ignitor for E27 base(70W, 150W) and E40 base(150W, 250W).

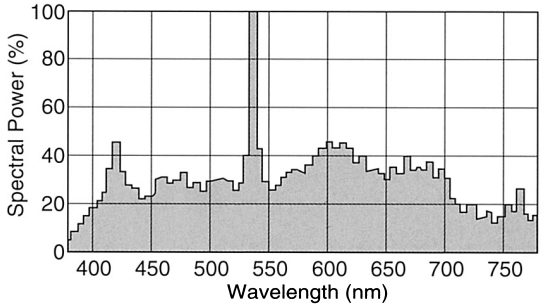
※ For safe operation and best performance, please contact Iwasaki or any local ballast manufacturer or ignitor manufacturer.



FEATURES

1. Excellent colour rendition, Ra 96, R9(Red colour) is especially high.
2. Warm white colour (Colour temperature 4500K)
3. Compact tubular bulb, E27 & E40 bases
4. Remarkable power savings due to high efficacy
5. Universal burning position(MT250SW : BU±15° burning only)
6. The outer bulb is made of UV-cut coating glass. (E27 base lamps)
7. Protective sleeve surrounding discharge tube allows operation in open fixture for indoor use.

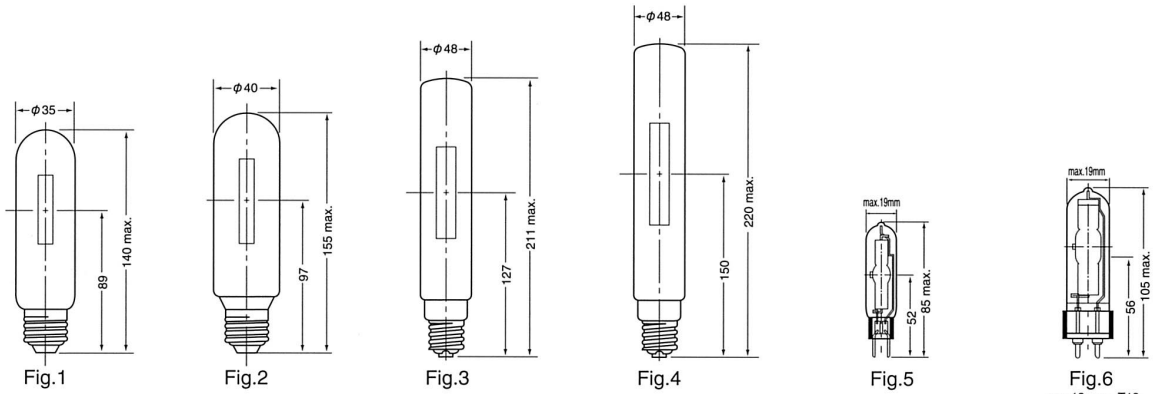
Spectral distribution 4500K



CHARACTERISTICS 4500K Series

Type	Watts (W)	Base	Bulb	Std. Pkg. Qty.	M.O.L. (mm)	L.C.L. (mm)	Lamp		Approx. Initial Lumens (ℓm)	Ra	Rated Av. Life (hrs)	Fig. No.
							Voltage(V)	Current(A)				
Clear Type												
MT70SW	70	E27	T35	12	140	89	90	1.0	5000	96	9000	1
MT100SW ※1	100	E27	T35	12	140	89	95	1.3	7000	96	9000	1
MT150SW	150	E27	T40	12	155	97	95	1.9	11000	96	12000	2
MT150SW/E40	150	E40	T48	12	211	127	95	1.9	11000	96	12000	3
MT250SW	250	E40	T48	12	220	150	100	3.0	19000	96	6000	4
MT70SW/G8.5	70	G8.5	T18	24	85	52	90	1.0	5000	96	6000	5
MT70SW/G12	70	G12	T18	24	105	56	90	1.0	5000	96	6000	6
MT150SW/G12	150	G12	T25	24	105	56	95	1.9	11000	96	6000	6
Frosted Type												
MT70FSW	70	E27	T35	12	140	——	90	1.0	4800	96	9000	1
MT100FSW ※1	100	E27	T35	12	140	——	95	1.3	6500	96	9000	1
MT150FSW	150	E27	T40	12	155	——	95	1.9	10500	96	12000	2

※1 MT100SW, MT100FSW lamps require only EYE Electronic Ballast for the operation.



BALLAST & IGNITOR

EYE Electronic Ballasts are available for the lamp operation with excellent performance.
or EYE Color Arc® can be operated on a standard HPS ballast or a metal halide ballast*, and ignitor for E27 base(70W, 150W) and E40 base(150W, 250W).

※ For safe operation and best performance, please contact Iwasaki or any local ballast manufacturer or ignitor manufacturer.



EYE Color Arc lamps operate on Iwasaki electronic ballasts and appropriate high-pressure sodium or metal halide lamp ballasts with ignitors.

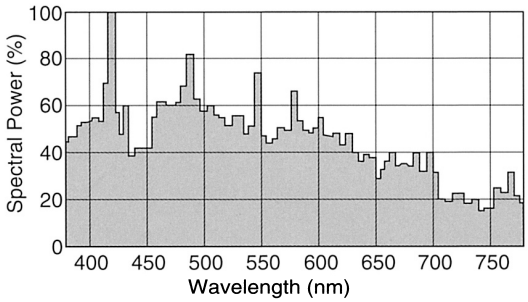
FEATURES

1. Excellent colour rendition, Ra 96(except for 70W)
2. Cool white colour (colour temperature 6500K)
3. Products a spectrum very similar to that of natural sunlight
4. Compact tubular bulb and E27 bases
5. Excellent power savings due to high efficacy
6. Universal burning position.
7. The outer bulb is made of UV-cut coating glass.
8. Protective sleeve surrounding discharge tube allows operation in open fixtures for indoor use.

APPLICATIONS

Recommended for use in special applications that require light very similar to that of natural sunlight such as aquarium illumination, painting shops, factories and greenhouses.

Spectral distribution 6500K



CHARACTERISTICS 6500K Series

Type	Watts (W)	Base	Bulb	Std. Pkg. Qty.	M.O.L (mm)	L.C.L. (mm)	Lamp		Approx. Initial Lumens (ℓm)	Ra	Rated Av. Life (hrs)	Fig. No.
							Voltage(V)	Current(A)				
Clear Type												
MT70D	70	E27	T35	12	140	89	90	1.0	5000	92	9000	1
MT100D ※1	100	E27	T35	12	140	89	95	1.3	7000	96	9000	1
MT150D	150	E27	T40	12	155	97	95	1.9	11000	96	12000	2
MT70D/G8.5	70	G8.5	T18	24	85	52	90	1.0	5000	92	6000	3
MT70D/G12	70	G12	T18	24	105	56	90	1.0	5000	92	6000	4
MT150D/G12	150	G12	T25	24	105	56	95	1.9	11000	96	6000	4
Frosted Type												
MT70FD	70	E27	T35	12	140	——	90	1.0	4800	92	9000	1
MT100FD ※1	100	E27	T35	12	140	——	95	1.3	6500	96	9000	1
MT150FD	150	E27	T40	12	155	——	95	1.9	10500	96	12000	2

※1 MT100D, MT100FD lamps require only EYE Electronic Ballast for the operation.

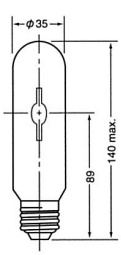


Fig.1

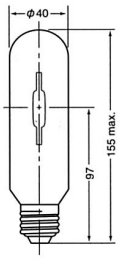


Fig.2

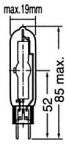


Fig.3

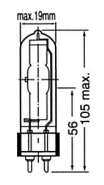


Fig.4
max.19mm—T18
max.26mm—T25

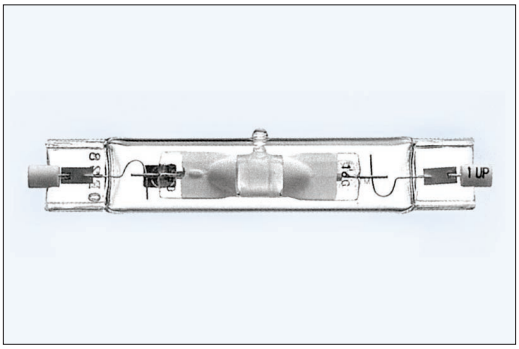
BALLAST & IGNITOR

EYE Electronic Ballasts are available for the lamp operation with excellent performance.
or EYE Color Arc® can be operated on a standard HPS ballast or a metal halide ballast*, and ignitor for E27 base(70W, 150W) and E40 base(150W, 250W).

※ For safe operation and best performance, please contact Iwasaki or any local ballast manufacturer or ignitor manufacturer.

IWASAKI LAMP SERIES

EYE Color Arc Renaissance™ and colour lamps (Double ended Series)



EYE Color Arc Renaissance lamps operate on IEC61167 ballast and ignitor.

FEATURES

1. Excellent colour rendition. Ra 96
2. Available in 3500K, 4500K and 6500K colour temperatures.
3. UV-cut coating.
4. Colour lamps are available.

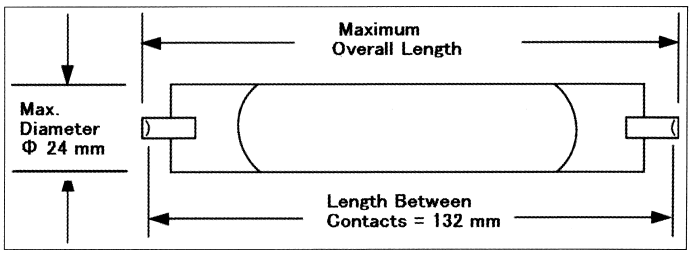
APPLICATIONS

■Architectural ■Office ■Landscape
■Retail ■Critical commercial and industrial colour applications

CHARACTERISTICS

Type	Watts (W)	Base	Std. Pkg. Qty.	M.O.L. (mm)	L.C.L. (mm)	Lamp		Approx. Initial Lumens (ℓm)	Ra, Colour	Rated Av. Life (hrs)
						Voltage(V)	Current(A)			
MTD70SDW	70	Rx7s	24	118.2	58.8	90	1.0	4500	96 3500K	6000
MTD70SW	70	Rx7s	24	118.2	58.8	90	1.0	5000	96 4500K	6000
MTD70D	70	Rx7s	24	118.2	58.8	90	1.3	5000	92 6500K	6000
MTD150SDW	150	Rx7s	24	136	68	95	1.9	10000	96 3500K	12000
MTD150SW	150	Rx7s	24	136	68	95	1.9	11000	96 4500K	12000
MTD150D	150	Rx7s	24	136	68	95	1.9	11000	96 6500K	12000
MTD150/V	150	Rx7s	24	136	68	95	1.9	4000*	Blue	6000
MTD150G	150	Rx7s	24	136	68	95	1.9	12000*	Green	6000
MTD150R	150	Rx7s	24	136	68	95	1.9	5000*	Magenta	–
MTD150AQUA ※1	150	Rx7s	24	136	68	95	1.9	6000*	50000K	6000
MTD150AQUA2	150	Rx7s	24	136	68	95	1.9	8000*	20000K	6000

*Reference value



IWASAKI LAMP SERIES

EYE Color Arc colour(Single ended Series)

CHARACTERISTICS

Type	Watts (W)	Base	Std. Pkg. Qty.	M.O.L. (mm)	L.C.L. (mm)	Lamp		Approx. Initial Lumens (ℓm)	Ra, Colour	Rated Av. Life (hrs)
						Voltage(V)	Current(A)			
MT150/V	150	E27	12	155	97	95	1.9	4000*	Blue	6000
MT150G	150	E27	12	155	97	95	1.9	12000*	Green	6000
MT150R	150	E27	12	155	97	95	1.9	5000*	Magenta	–
MT150AQUA	150	E27	12	155	97	95	1.9	6000*	50000K	6000
MT150AQUA2	150	E27	12	155	97	95	1.9	8000*	20000K	6000

Note : The ballast and ignitor is the same as EYE Color Arc lamps.
Refer to the Fig. 2 page 75.

*Reference value