

CERA ARC ACE PRO

Code	Description	Watts	Base	Shape	Finish	Colour Temp (K)	Lamp Voltage (V)	Lamp Current (A)	Initial Lumens (Lm)	Ra	Rated Av Life	Burning Position	Fig No.
For use with Mercury Vapour Control Gear without ignitor													
116520	CM230LS/PRO/BUD	245	E40	BT90	CLEAR	4100	130	2.13	29100	80	20000	BU/BD±45°	1
116525	CM230FLS/PRO/BUD	245	E40	BT90F	COATED	4100	130	2.13	27000	80	20000	BU/BD±45°	1
116530	CM360LS/PRO/BUD	375	E40	BT116	CLEAR	4100	130	3.25	47000	80	20000	BU/BD±45°	2
116535	CM360FLS/PRO/BUD	375	E40	BT116F	COATED	4100	130	3.25	45300	80	20000	BU/BD±45°	2

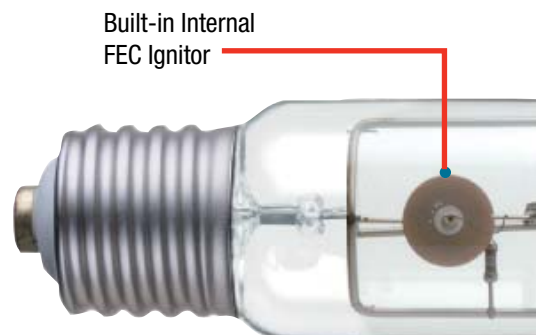
BT = Bulged Tubular.

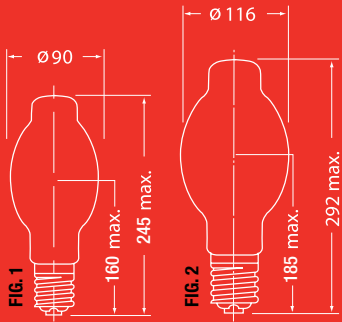
BUH = Base Up Horizontal, BU = Base Up, BD = Base Down, ANY = Any, BUD = Base Up and Down, BH = Horizontal.

Ceramic metal halide lamps for use with a mercury vapour ballast without ignitor. Direct replacement for standard mercury vapour lamps providing energy savings, good colour rendering and increased light output.

FEATURES

- High efficacy and long life – up to 125 lm/W, 20000 hours at 75% lumen maintenance
- Shrouded “Protected” design makes it possible to be used in fixtures without front glass
- Perfect energy-saving solution, achieving the required design lumens with a reduced number of fixtures
- Reduced CO² emissions – green lamp option
- Direct retrofit for mercury lamps – upgrade lumen output and colour rendering
- Colour rendering - Ra 80 (more accurate colour rendering makes installations more productive and attractive with reduced colour shift and imperceptible lamp to lamp colour variation)
- Optically designed special coating dramatically reduces UV radiation by around 90% - reduces insect attraction and fading of displayed items.





CERA ARC PRO

Code	Description	Watts	Base	Shape	Finish	Colour Temp (K)	Lamp Voltage (V)	Lamp Current (A)	Initial Lumens (Lm)	Ra	Rated Av Life	Burning Position	Fig No.
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For use with Metal Halide Control Gear with special ignitor

116510	CM230/PRO/BUD	245	E40	BT90	CLEAR	4100	130	2.13	29100	80	20000	BU/BD±45°	1
116515	CM230F/PRO/BUD	245	E40	BT90F	COATED	4100	130	2.13	27000	80	20000	BU/BD±45°	1
116505	CM360/PRO/BUD	375	E40	BT116	CLEAR	4100	130	3.25	47000	80	20000	BU/BD±45°	2
116500	CM360F/PRO/BUD	375	E40	BT116F	COATED	4100	130	3.25	45300	80	20000	BU/BD±45°	2

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BUH = Base Up Horizontal, BU = Base Up, BD = Base Down, ANY = Any, BUD = Base Up and Down, BH = Horizontal.

Ceramic metal halide lamps for use with a metal halide ballast. Replacement^ for metal halide lamps providing energy savings, good colour rendering and increased light output.

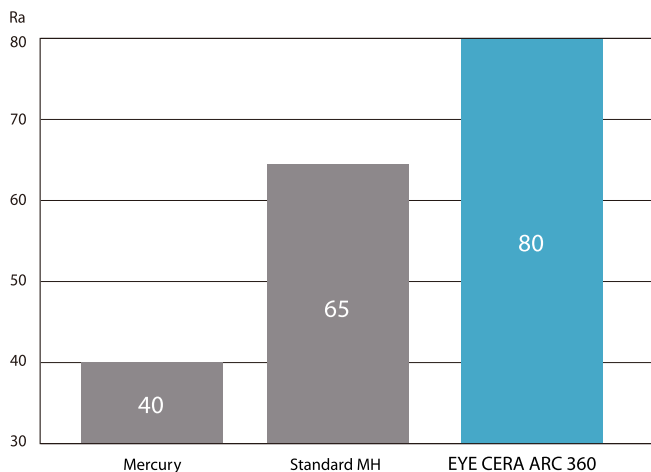
FEATURES

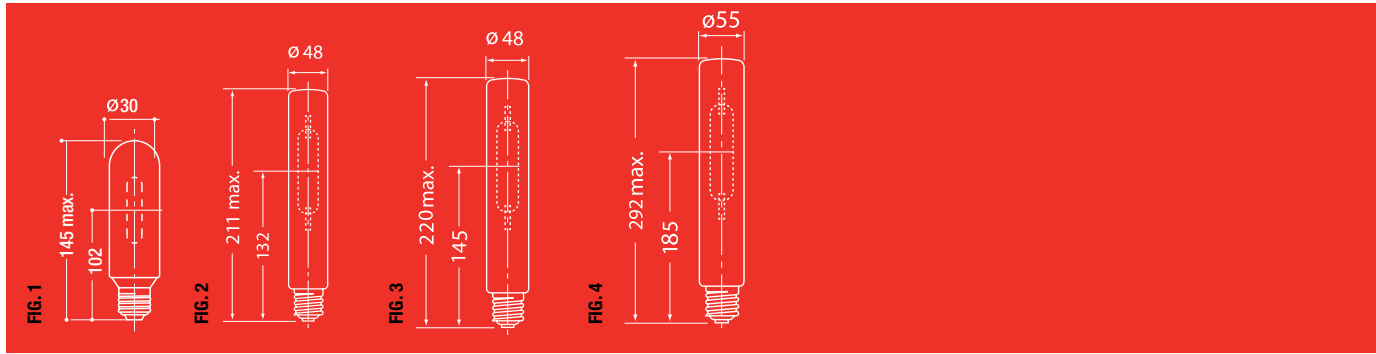
- High efficacy and long life – up to 125 lm/W, 20000 hours at 75% lumen maintenance
- Shrouded “Protected” design makes it possible to be used in fixtures without front glass
- Perfect energy-saving solution, achieving the required design lumens with a reduced number of fixtures
- Reduced CO² emissions – green lamp option
- Colour rendering - Ra 80 (more accurate colour rendering makes installations more productive and attractive with reduced colour shift and imperceptible lamp to lamp colour variation)
- Optically designed special coating dramatically reduces UV radiation by around 90% - reduces insect attraction and fading of displayed items.

^Check ignitor compatibility



High colour rendering up to Ra 80





CERA ARC EX (T)

Code	Description	Watts	Base	Shape	Finish	Colour Temp (K)	Lamp Voltage (V)	Lamp Current (A)	Initial Lumens (Lm)	Ra	Rated Av Life	Burning Position	Fig No.
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For use with High Pressure Sodium Control Gear

-	CMT70/EX/U	70	E27	T30	CLEAR	3500K	85	0.98	8000	75	18000	ANY	1
-	CMT100/EX/U	100	E40	T48	CLEAR	3500K	95	1.2	12000	75	18000	ANY	2
116430	CMT150/EX/HOR	150	E40	T48	CLEAR	3500K	100	1.8	17300	75	18000	BH±45°	2

For use with Metal Halide Control Gear with special ignitor

116550	CMT220/EX/HOR	230	E40	T48	CLEAR	3500K	130	2.13	27700	75	24000	HOR±45°	3
116555	CMT360/EX/HOR	375	E40	T55	CLEAR	3500K	135	3.25	45000	75	24000	HOR±45°	4

T = Tubular.

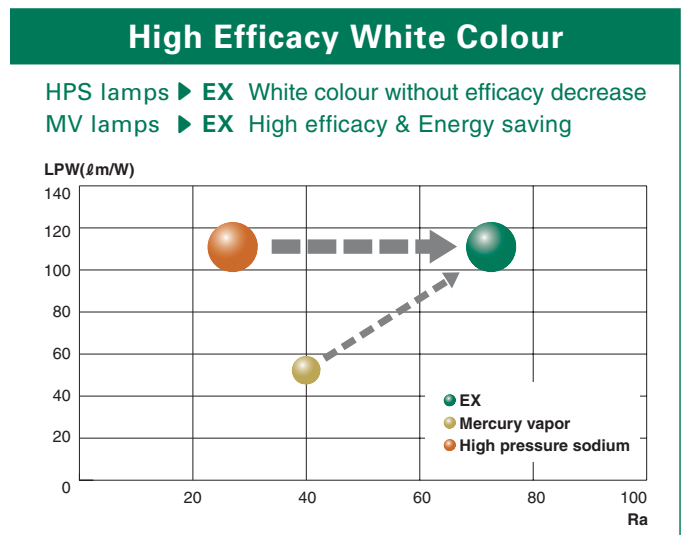
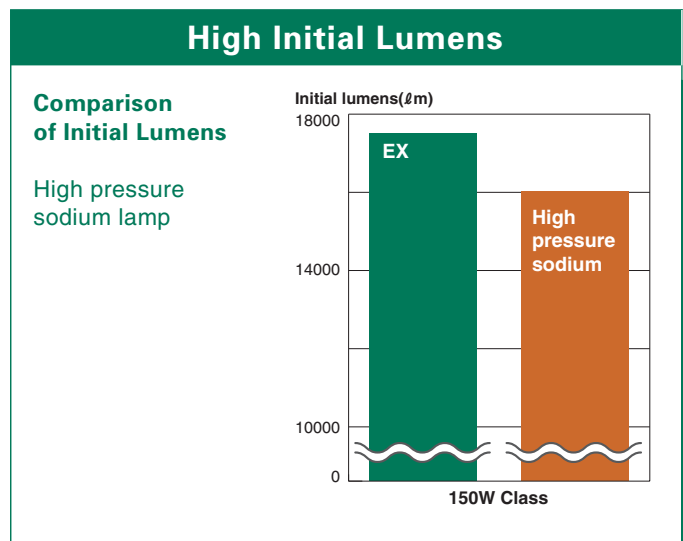
BUH = Base Up Horizontal, BU = Base Up, BD = Base Down, ANY = Any, BUD = Base Up and Down, BH = Horizontal.

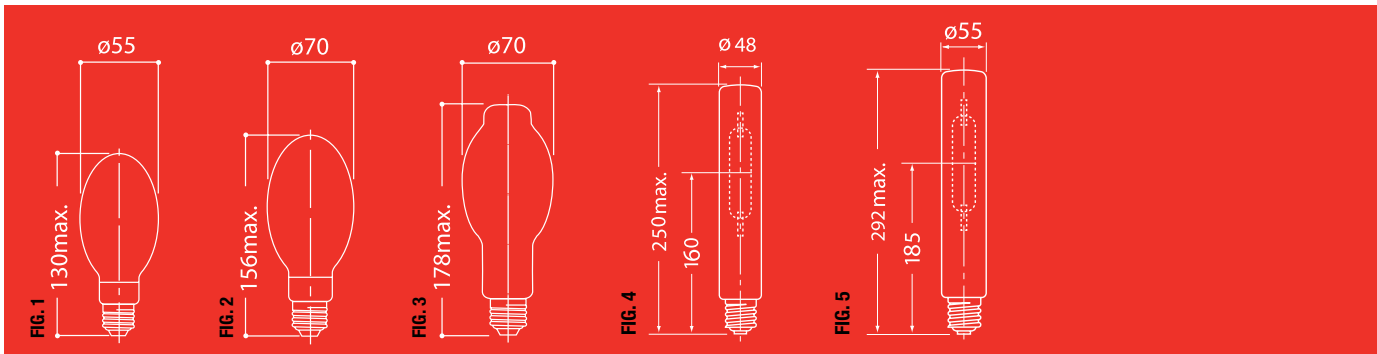
Ceramic metal halide tubular lamps for use with a high pressure sodium ballast (70W - 150W versions); to convert to high-quality white light while maintaining energy efficiency and long life. Ceramic metal halide lamps for use with a metal halide ballast with special ignitor^ (220W - 360W versions); to provide energy savings, good colour rendering and increased light output.

FEATURES

- High efficacy and long life up to 120lm/W, 18000 hours at 80% lumen maintenance
- Reduces energy and maintenance costs
- At 115lm/W the 150W version delivers the highest level of luminous efficacy of any ceramic arc tube metal halide lamp of this wattage
- Direct retrofit for HPS lamps (CMT70/EX/U, CMT100/EX/U & CMT150/EX/HOR) – easy to upgrade from ‘orange’ to ‘white’ light
- Retrofit for Metal Halide Lamps^ (CMT220/EX/HOR & CMT360/EX/HOR)
- High colour rendering – Ra 75 (shapes and colours easily definable, secure and comforting ambience)
- Optically designed special coating dramatically reduces UV radiation by around 90% - reduces insect attraction and fading of displayed items
- Must be operated in enclosed fixtures only.

^Check ignitor compatibility





CERA ARC ACE EX (E/BT/T)

Code	Description	Watts	Base	Shape	Finish	Colour Temp (K)	Lamp Voltage (V)	Lamp Current (A)	Initial Lumens (Lm)	Ra	Rated Av Life	Burning Position	Fig No.
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For use with Mercury Vapour Control Gear without ignitor

-	CM45FLS/EX/HOR	46	E27	E55F	COATED	3500K	90	0.61	4600	75	16000	BH±45°	1
-	CM45FLS/EX/BUD	46	E27	E55F	COATED	3500K	90	0.61	4600	75	16000	BU/BD±45°	1
-	CM70FLS/EX/HOR	72	E27	E70F	COATED	3500K	105	0.8	7700	75	20000	BH±45°	2
-	CM70FLS/EX/BUD	72	E27	E70F	COATED	3500K	105	0.8	7700	75	20000	BU/BD±45°	2
-	CM115FLS/EX/HOR	115	E27	BT70F	COATED	3500K	120	1.15	12100	75	24000	BH±45°	3
116540	CMT220LS/EX/HOR	230	E40	T48	CLEAR	3500K	130	2.13	27700	75	24000	HOR±45°	4
116545	CMT360LS/EX/HOR	375	E40	T55	CLEAR	3500K	135	3.25	45000	75	24000	HOR±45°	5

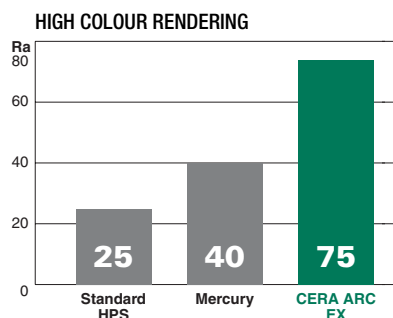
BT = Bulged Tubular, E = Elliptical.

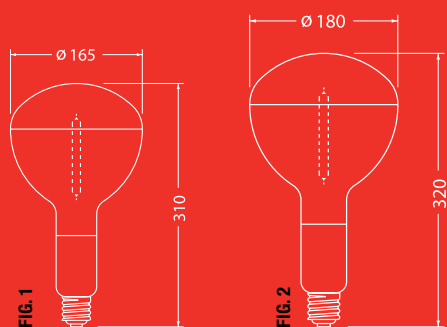
BUH = Base Up Horizontal, BU = Base Up, BD = Base Down, ANY = Any, BUD = Base Up and Down, BH = Horizontal.

Ceramic metal halide lamps for use with a mercury vapour ballast without ignitor. Direct replacement for standard mercury vapour lamps providing improved colour rendering, long life, increased light output and energy savings.

FEATURES

- High efficacy and long life up to 120lm/W, 18000 hours at 80% lumen maintenance
- Reduces energy and maintenance costs
- 'FEC Cera Arc Ace EX' lamps are a direct retrofit for mercury lamps
- High colour rendering – Ra 75 (shapes and colours easily definable, secure and comforting ambience)
- Optically designed special coating dramatically reduces UV radiation by around 90% - reduces insect attraction and fading of displayed items
- Must be operated in enclosed fixtures only.





CERA ARC ACE PRO REFLECTOR

Code	Description	Watts	Base	Shape	Finish	Colour Temp (K)	Lamp Voltage (V)	Lamp Current (A)	Beam Lms	Max Light Intensity (cd)	Ra	Rated Av Life	Burning Position	Fig No.
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For use with Mercury Vapour Control Gear without ignitor

Code	Description	Watts	Base	Shape	Finish	Colour Temp (K)	Lamp Voltage (V)	Lamp Current (A)	Beam Lms	Max Light Intensity (cd)	Ra	Rated Av Life	Burning Position	Fig No.
116480	CMR 110LS/W/SH/BU	UNDER DEVELOPMENT												
116485	CMR 220LS/W/SH/BU	245	E40	R165	R	4100	130	2.16	18000	4500	80	20000	BU/BD±45°	1
116490	CMR 360LS/W/SH/BU	375	E40	R180	R	4100	135	3.3	32000	7900	80	20000	BU/BD±45°	2

R = Reflector

BUH = Base Up Horizontal, BU = Base Up, BD = Base Down, ANY = Any, BUD = Base Up and Down, BH = Horizontal.

Ceramic metal halide lamps for use with a mercury vapour ballast without ignitor. Direct replacement for standard mercury vapour lamps providing energy savings, good colour rendering and increased light output.

FEATURES

- High efficacy and long life – up to 125 lm/W, 20000 hours at 75% lumen maintenance
- Perfect energy-saving solution, achieving the required design lumens with a reduced number of fixtures
- Reduced CO₂ emissions – green lamp option
- Direct retrofit for mercury lamps – upgrade lumen output and colour rendering
- Colour rendering - Ra 80 (more accurate colour rendering makes installations more productive and attractive with reduced colour shift and imperceptible lamp to lamp colour variation)
- Optically designed special coating dramatically reduces UV radiation by around 90% - reduces insect attraction and fading of displayed items.

HIGH COLOUR RENDERING

