



CosmoPolis™ MasterColor® Elite

Energy-Efficient, Sustainable Advanced Metal Halide Systems

PHILIPS

 **GARDCO**

A green solution without spending a lot of “green.”

The CosmoPolis™ and MasterColor® Elite systems’ improved visibility, higher efficiency and compact size lead to a wealth of environmentally friendly advantages. Because of their highly visible, energy-efficient white light, lower wattages are needed to light areas to desired levels, resulting in substantial savings and reduced environmental impact in both the short and long term.



Contrast the attractive, white light provided by the CosmoPolis™ lamp in the foreground with the orange-yellow light from the HPS source in the background.

Both systems feature highly efficient ceramic metal halide lamps and optimized electronic ballasts specifically designed to meet the challenges in our energy sensitive environment.

Quality of Light

White light is often perceived brighter than yellow light at the same measured luminance. This is due to two factors: the eye’s increased sensitivity to white light at low light levels and improved color contrast from better color rendering.

System Efficiency

CosmoPolis™ and MasterColor® Elite systems help to reduce the cost of total lighting ownership in three ways: increased luminous efficacy, reduced ballast losses, and improved optical performance.

Optical Efficiency

The optimized design and precise positioning of the light source via the locking lamp base enables substantially improved optical performance, allowing increased luminaire spacings.

Dependable Service

As the charts on the following page indicate, the long rated lamp life and high lumen maintenance translate to long-term savings and system reliability.

Compact System

The small size of both the lamp and the electronic ballast allows for lighter luminaires, requiring lighter-duty poles. Additionally, fewer raw materials are needed in manufacturing and packaging.

Sustainability

The high efficacy lamp and highly efficient ballast reduce CO₂ greenhouse gas emissions. The long life reduces resources needed to manufacture replacement lamps and ballasts and reduces disposal costs.

The Philips CosmoPolis™ Outdoor Lighting System combines a revolutionary white light ceramic metal halide lamp and an optimized electronic ballast to maximize performance. These systems offer every advantage for lighting outdoor environments, including improved visibility, enhanced ambiance, long life and low power consumption. The CosmoPolis™ system can minimize environmental impact and reduce energy use by up to 50%.



Watts	60W, 90W, 140W
Approximate Initial Lumens¹	60W: 6,900 lumens 90W: 10,450 lumens 140W: 16,500 lumens
Rated Average Life²	60W: 30,000 hours 90W: 30,000 hours 140W: 30,000 hours
Dependable Service	At 12,000 hours the 60W CosmoWhite lamp has a 90% survival rate and more than 80% lumen maintenance

1. Measured at 100 hours life. Approximate lumen values listed are for horizontal operation of the lamp.
2. Rated average life is the life obtained, on the average, from large representative groups of lamps in laboratory tests under controlled conditions at 10 or more operating hours per start. It is based on survival of at least 50% of the lamps and allows for individual lamps or groups of lamps to vary considerably from the average. Stated lamp life is for lamps burned in the horizontal position. If burned in the vertical position, lamp life is 20,000 hours.

The Philips MasterColor® Elite provides high-quality white light and long, stable lifetime performance, making it a significant upgrade over traditional HID systems. MasterColor® Elite systems exhibit excellent color quality, higher optical efficiency and consistent light from beginning to end. Available in two color temperatures (3,000°K and 4,000°K), it is an ideal choice for a wide variety of applications. A dedicated electronic ballast operates both the 210W and 315W lamps.

Watts	210W, 315W
Approximate Initial Lumens³	210W: 24,150 lumens 315W: 37,800 lumens
Rated Average Life⁴	30,000 hours
Dependable Service	At 12,000 hours the 315W Elite lamp has a 90% survival rate and more than 80% lumen maintenance

3. Measured at 100 hours life. Approximate lumen values listed are for horizontal operation of the lamp.
4. Rated average life is the life obtained, on the average, from large representative groups of lamps in laboratory tests under controlled conditions at 10 or more operating hours per start. It is based on survival of at least 50% of the lamps and allows for individual lamps or groups of lamps to vary considerably from the average. Lamp life does not vary by lamp position.



SUGGESTED REPLACEMENTS					ANNUAL ENERGY SAVINGS (PER LUMINAIRE)	
TYPICAL SOURCE	SYSTEM WATTS	ADVANCED SOURCE	SYSTEM WATTS	WATTS SAVED	\$.10/KWH	\$.15/KWH
100HPS	130	60CMPE	67	63	\$ 28	\$ 42
150HPS	190	90CMPE	99	91	\$ 40	\$ 60
250HPS	295	210MCE	225	70	\$ 31	\$ 46
400HPS	465	315MCE	338	127	\$ 56	\$ 84
100MH	129	60CMPE	67	62	\$ 27	\$ 41
150MH	185	90CMPE	99	86	\$ 38	\$ 57
175MH	210	90CMPE	99	111	\$ 49	\$ 73
250MH	291	140CMPE	154	137	\$ 62	\$ 93
400MH	460	210MCE	225	235	\$103	\$155
400MH	460	315MCE	338	122	\$ 54	\$ 81

"CMPE" refers to the CosmoPolis™ system. "MCE" refers to the MasterColor® Elite System. The Prefix number refers to the wattage.



CosmoPolis™ and MasterColor® Elite systems are available in a large number of Gardco and Emco luminaires.
To learn about the specific configurations available, visit sitelighting.com.

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Philips Gardco Warranty

Luminaires equipped with CosmoPolis™ or MasterColor® Elite systems feature a 5 year limited warranty on CosmoPolis™ ballasts, a 3 year limited warranty on MasterColor® Elite ballasts and a 2 year limited warranty on lamps for both systems. For full warranty information please visit sitelighting.com.



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