



Comparison points; CMH versus Halogen lamps

Properties	Halogen 250 watt	CMH 70 watt	CMH 150 watt	Halogen 150 watt	CMH 39 Watt
1. External housing temperature ‡	145 deg	98 deg	128	145 deg	87
2. Projector body temperture	410 deg	125 deg	260	410 deg	103
3. Rated lumins	5,000	7,300	14,000	2,800	3,500
4. Average rated life *	2,000 hrs.	15,000 hrs.	12,000 hrs.	2,000 hrs.	10,000 hrs.
5. CRI *	100	95	85	100	90
6. K = Color temperature *	2950K	3000K	3000K	2950K	3000K
7. Start time *	instant	3 min to 90%	3 min to 90%	instant	3 min to 90%
8. Restart time *	instant	15 min. cool down	15 min. cool down	instant	15 min. cool down
9. IC/AT Housing	No †	Yes	No †	No	Yes
10. Dimmable	Yes 100%	Yes to 50%	Yes to 60%	Yes 100%	No
11. Input voltage	120VAC	120/277VAC	120/277VAC	120VAC	120/277VAC
12. Efficacy ¥	20	104	93	19	90

‡ Tested in a NON IC condition

* Per Mfg. spec sheets

† Airtight if used with HOA or HOJ housing

CRI = Color Rendering Index. A figure of merit, on a scale of 0 to 100, used by manufacturers of fluorescent, metal halide and other nonincandescent lighting equipment to describe the visual effect of the light on colored surfaces. Natural daylight is assigned a color rendering index (CRI) of 100.

K = Color Temperature. It is a measurement in Degrees Kelvin that indicates the hue of a specific type of light source. The scale ranges from, dark red at the bottom (1500K), to dark blue at the top (8000K). Most interior lighting falls into the following ranges; 2500K (100W Incadesent), 3000K to 4000K (Ceramic Metal Halide), 5000K (Fluorescent). This ranges from light orange (2500K) to light blue (5000K).

¥ Efficacy is a function of Lumens per Watt and meets the California Title 24 energy requirements.



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