

GATE TEMPERATURE OF STAGE LIGHTING FIXTURES

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QUESTION:

What is the actual temperature of a lighting fixture at the gate of the fixture?

HYPOTHESIS:

Older fixture get way hotter than newer fixtures.

MATERIALS/APPARATUS:

1 x ETC Source Four 26°
1 x HPL575/115
1 x HPL750/115
1 x Strand Axial Leko
1 x Thorn HX-755
1 x Extech EX830 with Thermal Probe

PROCEDURE:

Over the course of 15 minutes measure the gate temperature of an ERS unit on 5 minute intervals. The thermal probe was attached to the shaded side of a shutter that was pushed in to cover half the field. The probe was attached with blacktack.

CONCLUSION:

Old units get f*cking HOT! (But so do all units)



TEMPERATURE SUMMAY (°F)

INTERVAL	AMBIENT	0 MINUTES	5 MINUTES	10 MINUTES	15 MINUTES
S4 HPL575/115	69°F	540°F	593°F	605°F	611°F
S4 HPL750/115	75°F	289°F	654°F	674°F	683°F
STRAND HX755	72°F	377°F	883°F	885°F	885°F

MEASURED TEMPERATURE (°F)

