



Theatrical

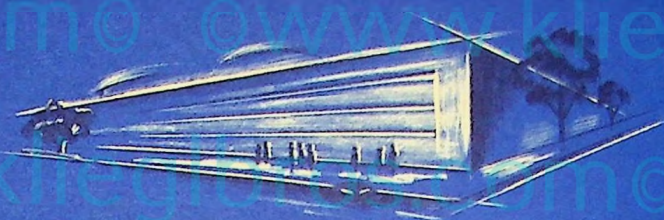
Lighting

for

Quartz

by **KLIEGL**

**A TOTALLY
NEW CONCEPT**



Founded in 1896, Kliegl Bros. quickly won world-wide fame with their many basic-patent developments in theatre lighting. Originally located in New York's theatre district and known as the headquarters for theatre lighting for almost seventy-five years, Kliegl Bros. moved, in 1963, to a custom-designed plant in Long Island City. Here, with some 40,000 square feet of space for their designers and skilled craftsmen, Kliegl continues to create lighting equipment that meets, in every respect, the world's highest standards of quality and performance.

KLIEGL

First IN LIGHTING DEVELOPMENTS FOR ALMOST SEVENTY-FIVE YEARS

- 1903—1st installation of complete lighting and control system in Metropolitan Opera House.
- 1905—1st with plugging boxes, floor pockets, stage plugs and connectors.
- 1911—1st arc Klieglight used in motion picture industry.
- 1915—1st disappearing footlight.
- 1922—1st with introduction of Linnebach projection in America.
- 1928—1st remote color changer spotlight.
- 1929—Introduction of Fresnel-lens into spotlight apparatus.
- 1932—1st incandescent Klieglight (ellipsoidal reflector spotlights).
- 1932—1st pin-hole down light for auditorium use.
- 1932—1st 500-watt wide-angle scenic projector.
- 1936—1st ceramic color risers on spotlight lenses.
- 1939—1st 2100 watt wide-angle scenic projector.
- 1943—Projection system for Waller anti-aircraft gunnery trainer.
- 1949—Dynabeam, 1st long throw 3000 watt ellipsoidal reflector Klieglight.
- 1951—1st rotary circuit selector system with a cold make and break.
- 1952—1st 3-phase electronic dimming system.
- 1954—Safpatch® 1st cord-plug type cold patch circuit selector system.
- 1956—1st Oval-Beam lens Fresnel spotlights.
- 1958—1st SCR® Dimmer.
- 1964—1st complete line of equipment for lighting with quartz-halogen lamps.



That Kliegl Bros. designs and manufactures to only the very highest standards of both lighting excellence and control is, today, both an industry maxim and an extra assurance of "quality above all" . . . for those who specify Kliegl.

and now

First Again

WITH COMPLETE QUARTZ LIGHTING FOR THE THEATRE

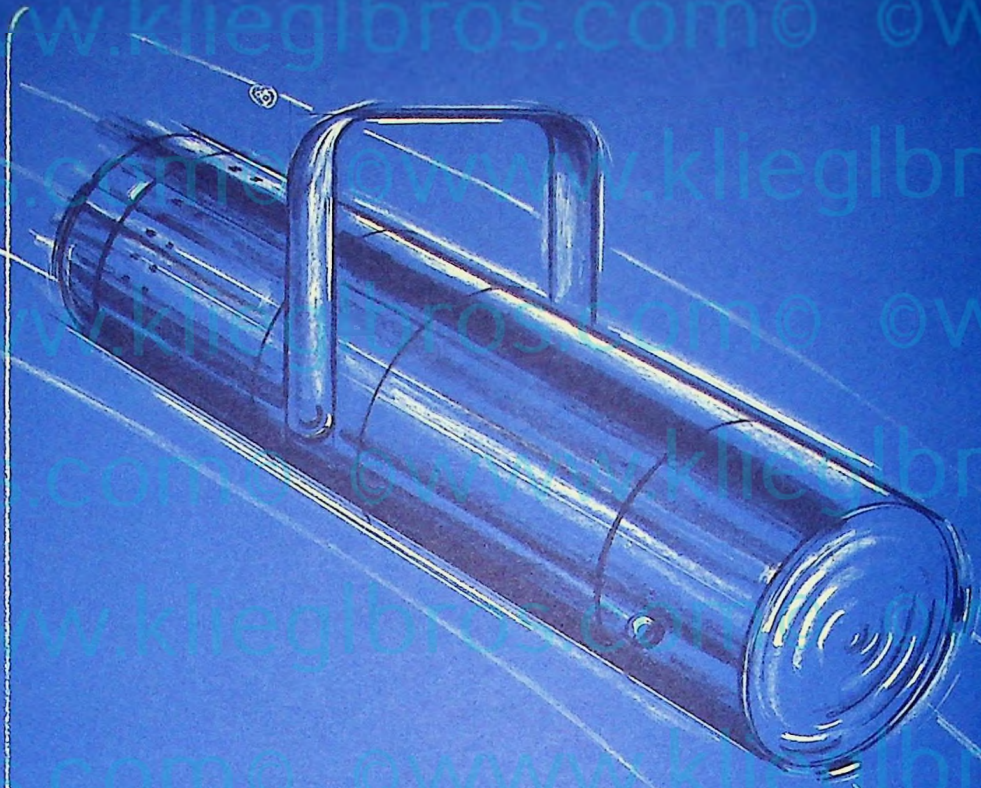
By utilizing new applications of basic laws of optics and advanced mechanical devices, Kliegl Bros. have once more created a completely new concept in theatre lighting with this new line of equipment for quartz-halogen lamps.

Working with the first quartz lamp available, Kliegl equipment development was so broad and so universally accepted that several of the new quartz lamps were specifically designed for the instruments in this catalog. For the serious theatre lighting technician, Kliegl's quartz-halogen lighting units offer tremendous advantages because they deliver optimum use of the inherent advantages of quartz-halogen lamps without penalizing any present investment in dimmer and control equipment.

From both the aesthetic and technical viewpoint, Kliegl's quartz theatre lighting, when compared with conventional tungsten filament equipped apparatus, offers numerous advantages. To cite only a few, this equipment, the only equipment designed for quartz, offers: a lamp life five to ten times over conventional tungsten lamps • greatly improved efficiencies • more compact instruments, easier to manipulate • universal burning position • virtually undiminished light output over entire lamp life • simplified relamping and adjustment • dimming curves identical with conventional tungsten lamps • no special or additional dimming system required • lamp types minimized for smaller, simplified inventory • less lamp storage space required and—lamps are mechanically stronger and more resistant to damage in handling.

After three years of intensive preparation and proving, it is our sincere and considered opinion that this new line of Kliegl equipment well merits serious consideration and justifiably merits the Kliegl name and label that each unit carries.





all new

Klieglights for Quartz

**GREATER EFFICIENCY—LONGER LIFE
LOW POWER CONSUMPTION**

The Klieglight for Quartz incorporates every possible lamp housing refinement and delivers a field of light which is spectacularly sharp, uniform and high in output.

Unrestricted burning position, newly designed reflectors and new lens system are only a few of the many spectacularly useful features of this new piece of equipment. All units are provided with a pipe clamp and 36" of asbestos cable with grounded pin plug connector attached. Twistlock connectors are also available.

KLIEGLIGHT 300/400 watt

Catalog Number	Performance at 15' with Q400T4/CL Lamp		Unit Dimensions	
	Spread	Foot Candles	Length	Diameter
1340	12'	25	14"	5 1/8"
1341	9'	40	14"	5 1/8"
1342	6'	58	15"	5 1/8"
1343	4'	88	17 1/2"	5 1/8"

Recommended Lamps:
Q300T4/CL 2,000-hour life
Q400T4/CL 2,000-hour life

KLIEGLIGHT 1000 watt

Catalog Number	Performance with Q1000T6/RCL Lamp		Unit Dimensions	
	Spread	Ft. Cdles.	Length	Diameter
1357/GW	11' @ 25'	100	23 1/2"	10 1/4"
1357/6	7.5' @ 25'	150	23 1/2"	10 1/4"
1357/8	10' @ 50'	55	27 3/4"	10 1/4"
1357/10	9' @ 75'	45	32 3/4"	10 1/4"
1357/12	8' @ 75'	55	33 1/4"	12 1/4"

Recommended Lamps:
Q1000T6/RCL 2,000-hour life
Note: If for use with 150-hour life lamps, multiply footcandles by 2.



all new

Fresnel for Quartz

MINIMUM SPOT TO MAXIMUM FLOOD

These Fresnels provide a beam of light for either general area illumination or high intensity, soft edge spot lighting. Beam spread, from spot to flood, is approximately 12 to 35 degrees and is always of uniform intensity with no filament image or dark center.

Easy to focus, universally mounted and simple to adjust. All units with pipe clamp, 36" asbestos cable and attached grounded pin plug connector. Twistlock connector also available.

FRESNEL

Catalog Number	Lens	Wattage	Performance @ 20'				Unit Dimensions	
			Minimum Spot Spread	Foot-candles	Maximum Flood Spread	Foot-candles	Length	Diameter
3506	6"	500Q/CL	6'	95	20'	9	9 1/4"	8 1/4"
3518	8"	Q1000T6	4'	250	18'	30	13 1/4"	13"

Recommended Lamps—#3506 500Q/CL 2,000-hour life
#3518 Q1000T6/RCL 2,000-hour life

Note: If #3518 is used with 150-hour life lamp, multiply footcandles by 2.

all new

Borderlights for Quartz

Used for dramatic color blending and strong, controlled toning, these units deliver all the lamp wattage called for with smooth, even distribution. Extremely compact, with a rated lamp life of 2,000 hours, these units, both permanent and portable, come in varied lengths, varied color circuits and both types have redesigned housing and optics to handle quartz lamp lighting. Full range of brackets, clamps, grounded pin plug connectors, hangers, color roundels, guards and twistlock connectors available as dictated by type and use of units. Custom-designed units are, of course, also available on request in line with Kliegl's policy of delivering "quality above all."

BORDERLIGHT—Permanent

Catalog Number	Wattage	Lamp Centers	Roundel	Color Circuits
3468	200/300	8"	7 $\frac{1}{4}$ "	3
3469	200/300	8"	7 $\frac{1}{4}$ "	4

BORDERLIGHT—Portable

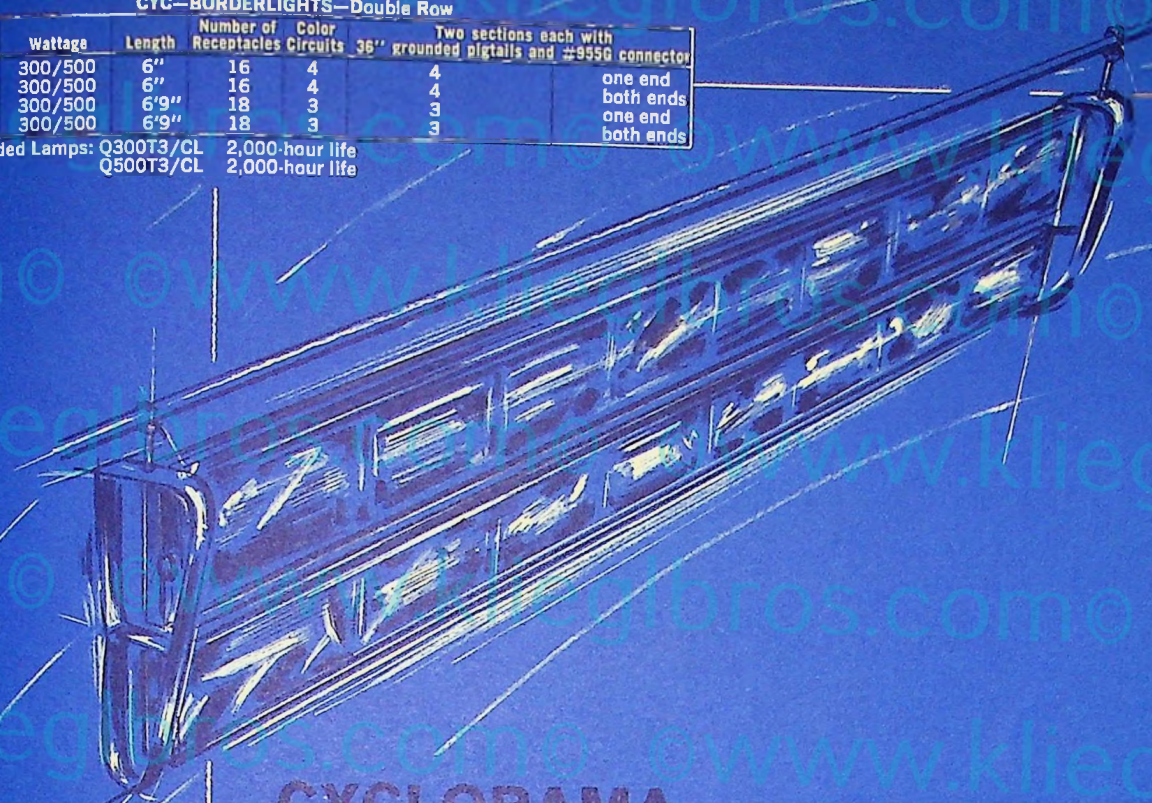
Catalog Number	Wattage	Length	Number of Receptacles	Color Circuits	Roundel	36" grounded pigtail
3466P	200/300	6'	9	3	7 $\frac{1}{4}$ "	3 one end
3466PP	200/300	6'	9	3	7 $\frac{1}{4}$ "	3 both ends
3468P	200/300	8'	12	3	7 $\frac{1}{4}$ "	3 one end
3468PP	200/300	8'	12	3	7 $\frac{1}{4}$ "	3 both ends
3469P	200/300	8'	12	4	7 $\frac{1}{4}$ "	4 one end
3469PP	200/300	8'	12	4	7 $\frac{1}{4}$ "	4 both ends

Recommended Lamps: Q300T4/CL 2,000-hour life (200-watt available shades)

CYC—BORDERLIGHTS—Double Row

Catalog Number	Wattage	Length	Number of Receptacles	Color Circuits	36" grounded pigtails	Two sections each with #999Q connector
3490P	300/500	6"	16	4	4	one end
3490PP	300/500	6"	16	4	4	both ends
3491P	300/500	6'9"	18	3	3	one end
3491PP	300/500	6'9"	18	3	3	both ends

Recommended Lamps: Q300T3/CL 2,000-hour life
Q500T3/CL 2,000-hour life



CYCLORAMA

Borderlights for Quartz

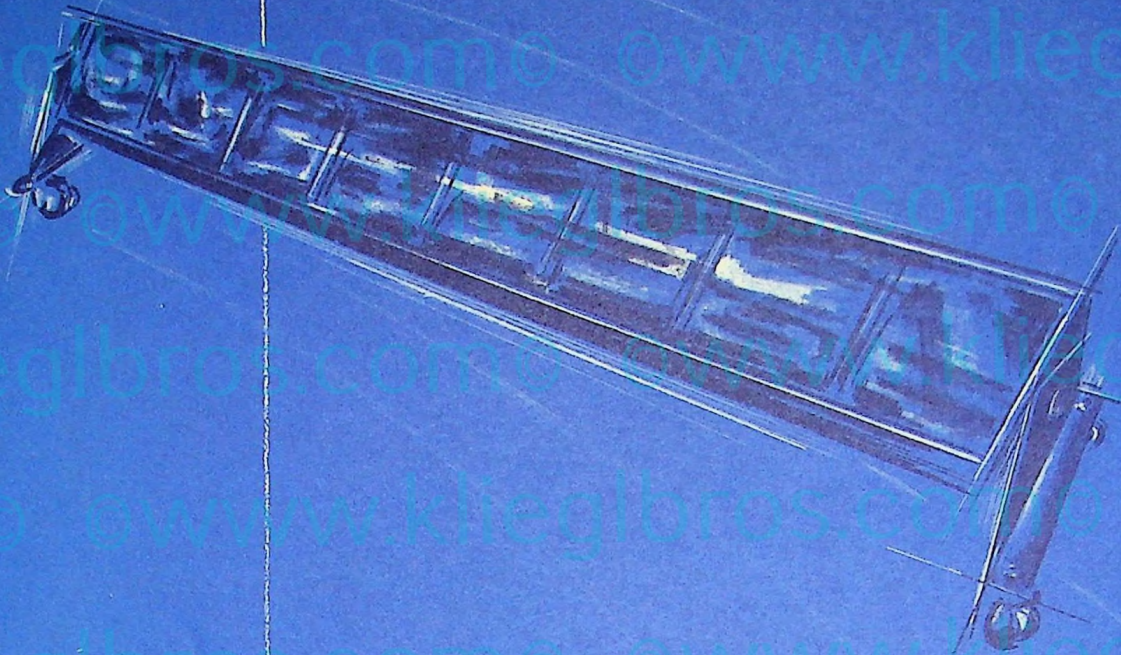
all new

For cyclorama or back-drop lighting, these new quartz units are unsurpassed for smooth, excellent color blending with no scalloping. With these Borders, you get an intense, high concentration of light per running foot with distribution that is unsurpassed by any other available fixture. Simplified rigging with compact, light-weight construction makes location quick and easy. Double borders are individually adjustable and, with quartz, new lamps can be inserted next to old without any noticeable difference in output. End hangers, pipe clamps, glass color frames, pigtails and grounded pin plug connectors furnished attached. Glass frames available in red, dark blue, green amber and clear. Other colors available on request as are twistlock connectors.

CYC—BORDERLIGHTS—Single Row

Catalog Number	Wattage	Length	Number of Receptacles	Color Circuits	36" grounded pigtails	
3485P	300/500	6'	8	4	4	one end
3485PP	300/500	6'	8	4	4	both ends
3486P	300/500	6'9"	9	3	3	one end
3486PP	300/500	6'9"	9	3	3	both ends





all new

CYCLORAMA Footlights for Quartz

When used with cyclorama or back-drop lighting, Kliegl Cyc Footlights produce, when properly installed, the world's finest cyclorama lighting. Minimum masking is required on these fixtures because they are more condensed and compact in both design and structure. As with other Kliegl Quartz equipment, new lamps next to old never distort light output or dimmer settings. Standard equipment includes 36" pigtails with grounded pin plug connectors attached, casted trunions and glass color frames in red, dark blue, light blue, green, amber and clear. On request, twistlock connectors and special colors available.



CYC—FOOTLIGHT

Catalog Number	Wattage	Length	Number of Receptacles	Color Circuits	36" grounded pigtails and #955C connector
3480P	300/500	6'	8	4	4 one end
3480PP	300/500	6'	8	4	4 both ends
3481P	300/500	6'9"	9	3	3 one end
3481PP	300/500	6'9"	9	3	3 both ends

Recommended Lamps: Q300T3/CL 2,000-hour life
Q500T3/CL 2,000-hour life



THEATRE SCOOPS

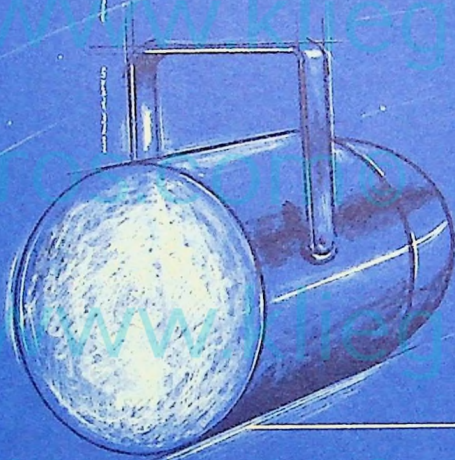
Catalog Number	Wattage	Dimensions	
		Length	Diameter
3450	500	12"	12"
3451	1,000	12"	16"

Recommended Lamps: Q500T3/CL 2,000-hour life
Q1000T3/4 500-hour life

Theatre scoops for Quartz

A highly successful unit for general diffused lighting and color washes, this newly designed equipment is available for myriad numbers of special stage lighting uses. Quick and easy to install, they are all provided with pipe clamps, 36" asbestos cable and grounded pin plug connector attached. Twistlock connectors also available.

all new



KLIEGSUN

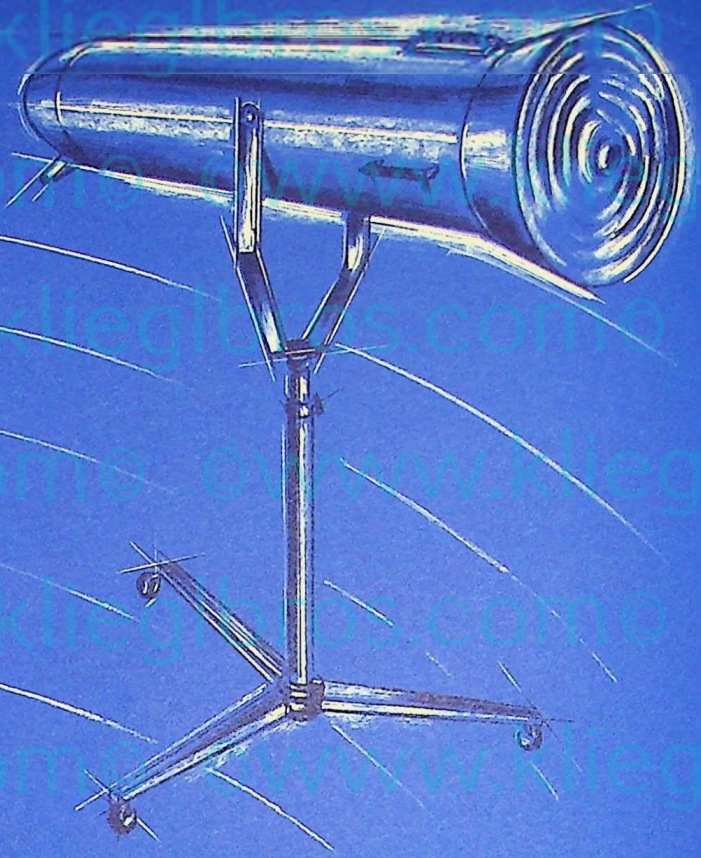
Catalog Number	Wattage	Dimensions	
		Length	Diameter
3440	1,000	15"	12"

Recommended Lamps: Q1000T6/RCL 2,000-hour life

Kliegsun for Quartz

For back or side accent lighting, with a narrow, sharply defined shaft of intense light, these Kliegsuns are unsurpassed. With Quartz, you get a full 2,000-hour lamp life, **ten times that of lamps previously used!** As with the Kliegl Theatre Scoops, these Kliegsuns are provided with pipe clamp, 36" asbestos cable and attached grounded pin plug connector. Twistlock connectors are also available.





all new **Follow Spots** for Quartz

This new unit booms an extremely narrow, high-intensity, adjustable beam over long 75 to 125-foot throws eliminates entirely any need for conventional arc spots. The combination of all new reflector and lens design to work in conjunction with the new quartz lamps, produces a light of almost incredible quality and intensity. Each unit carries an iris shutter, individual framing shutters, dual follow handles and a full five-color boomerang. You also have, as standard equipment, a roller caster floor stand, 25 feet of cable and a switch. Exceptionally rugged and easy to use, service and maintain, Kliegl Follow Spots with Quartz satisfy the most particular Lighting Technician's requirements.



FOLLOW SPOT

Catalog Number	Wattage	Life, hours	Performance @ 75'		Unit Dimensions	
			Spread	Footcandles	Length	Diameter
1393	1,000	30	6'	180	46"	16"
1393	1,000	150	6'	140	46"	16"

Recommended Lamps: DXN (1,000 watt) 30-hour life
 DXW (1,000 watt) 150-hour life



count on

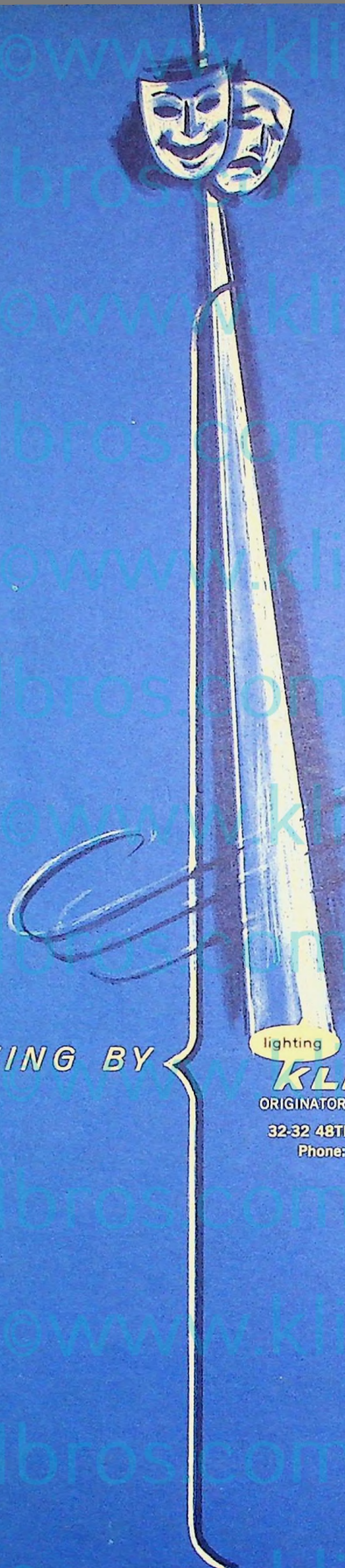
Kliegl

**FOR ADVANCED DESIGN LIGHTING
CONTROL SYSTEMS TO MATCH
YOUR QUARTZ LIGHTING**

Kliegl, today, still offers the world's most advanced line of lighting control systems and the widest range of SCR® Dimmers, Control Consoles, Programmers, Autotransformer Dimmer Boards, Cross Connect Systems of Rotolectors® and Safpatch® units to fit any technician's need. Utilizing the most sophisticated solid state electronic elements and/or the simplest autotransformer type switchboards, Kliegl's Control Systems are fully engineered to complement both equipment and operating requirements.

Based upon hundreds of dimmer installations and thousands of tests both in the laboratory and in the field, Kliegl Control Systems represent a major "break-through" in cutting installation costs and maintenance problems, plus offering heretofore unknown operating flexibility and simplicity.

For complete details on Kliegl Lighting Control Systems write for Catalog S-65.



LIGHTING BY

lighting

KLIEGL BROS.

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