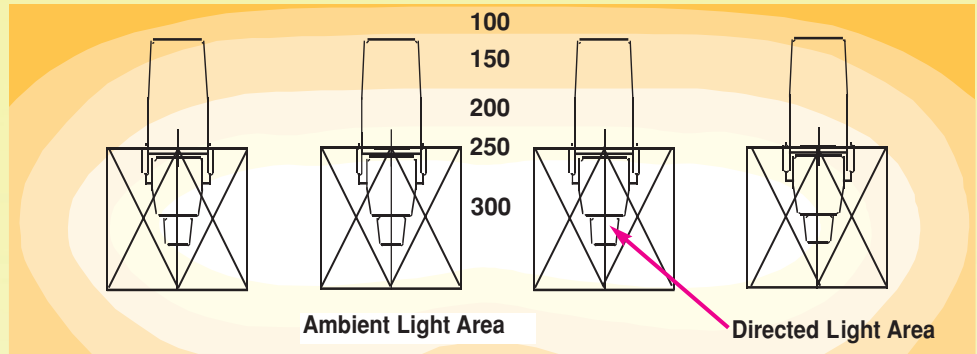


# State-Of-The-Art Lighting

Typical 4-Chair Bay with 2 Fixtures Over Each Chair.



**This Could Be ALL THE LIGHT YOU NEED!**

Up to 25% of body fatigue is related to eye strain, which can lead to nervousness, irritability, boredom and damage to the eye. This fatigue can be caused by an improper ratio between task lighting and ambient lighting, as well as poor distribution of general room lighting.

Ross ELEFs shown with correct positioning over chairs. Fixtures are "mirror images" of each other to direct more light to the center of the chair. The fixtures will produce **300+ Footcandles of Light** at the mouth of the patient.

## LIGHT COMPARISON CHART

	Ross ELEF	Halides	Std. Fluorescent
<b>Bulb Life</b>	20,000 hrs.	10,000 hrs.	20,000 hrs.
<b>Footcandles</b>	<b>300+</b> Light concentrated at the patient's mouth	180 at 7'6" from floor	200
<b>Efficiency</b> (Amount of light per watt of electricity)	Amount of Light <small>Watts of Electricity</small>	Amount of Light <small>Watts of Electricity</small>	Amount of Light <small>Watts of Electricity</small>
<b>Watts Consumed</b>	<b>218</b> (two 2x4 4-lamp fixtures)	300	<b>348</b> (two 2x4 4-lamp fixtures)
<b>Light Fall Off</b> (Light loss over life of bulb)	<b>6-8%</b>	20-25%	25%
<b>Color Temperature</b> <small>2000K=Candle, 8500K=Clear Sky</small>	<b>4100K</b> <small>Candle ↓ Cloudy Sky Blue Sky</small>	<b>3200K</b> <small>Candle ↓ Cloudy Sky Blue Sky</small>	<b>4100K</b> <small>Candle ↓ Cloudy Sky Blue Sky</small>
<b>Color Shift</b>	<b>None</b> (Cool White)	<b>± 500K</b> Shifts toward red or yellow color.	<b>None</b>
<b>CRI</b> (Color Rendering Index) <small>+75= Excellent Color; 65-75=Good; 55-65=Fair; 0-55=Poor</small>	<b>85 CRI</b> Excellent	<b>65-70 CRI</b> Good	<b>60-65 CRI</b> Fair
<b>Bulb Cost</b>			
<b>Operating Costs</b> <small>Direct electricity costs, A/C costs and heating benefit.</small>			
<b>Warm Up Time</b> (Time until full brightness)	<b>Instant</b>	2-5 min.	<b>Instant</b>
<b>Restart Time</b>	<b>Instant</b>	10-20 min.	<b>Instant</b>
<b>Power Supply</b>	<b>Electronic Ballast</b> (No Hum)	Transformer (Hums)	Magnetic Ballast (Hums)
<b>Explosion Risk</b>	<b>None</b>	<b>HIGH</b>	<b>None</b>
<b>Recommended Height</b>	<b>8'</b>	<b>7'6"</b> <small>Footcandles decrease significantly if mounted higher.</small>	<b>8'</b>
<b>Intended Use</b>	<b>Designed Exclusively for the Dental Operator</b>	Outdoors or Large Areas Like Parking Lots or Warehouses	General Lighting

### Designed Exclusively for the Orthodontic Office

**FIXTURE: SPECIALLY DESIGNED**  
Ross ELEFs were designed specifically for use in the dental operatory. Other lights, like halides, were never designed to be so close to the person using the light. They were intended to be used in large, open areas like warehouses and parking lots.

### DIRECTS LIGHT TO THE MOUTH

**REFLECTOR: MORE DIRECTED LIGHT**  
Ross ELEFs have specially designed reflectors to direct more light to the mouth of the patient, producing about twice the amount of light as other fixtures, but without the annoying glare.

### NO MORE HUM

**BALLAST: NO MORE HUMMING**  
Ross ELEFs use electronic ballasts to eliminate the "humming" of standard fluorescents or halides and save energy. In addition, electronic ballasts do not emit harmful electromagnetic fields.

### NO COLOR SHIFT

**BULBS: TRUER COLOR RENDITION**  
The fluorescents used in the ELEFs produce cool, white light with better color rendition. There is no color shift over time, so colors stay true. Halides produce a "warmer" light for a reddish or yellow color (restaurants typically use warmer lighting). The color of the light from halide lamps can shift dramatically. As lamps are replaced each light could differ in color.

**ROSS**

ORTHODONTIC

**ELEF (Electronic Light Ejection Fixtures)**

**CURVED POST TASK LIGHT**

**GOOSE NECK TASK LIGHT**

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