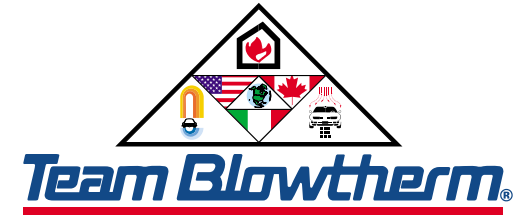




Keys to Success

Spray Booth Lighting

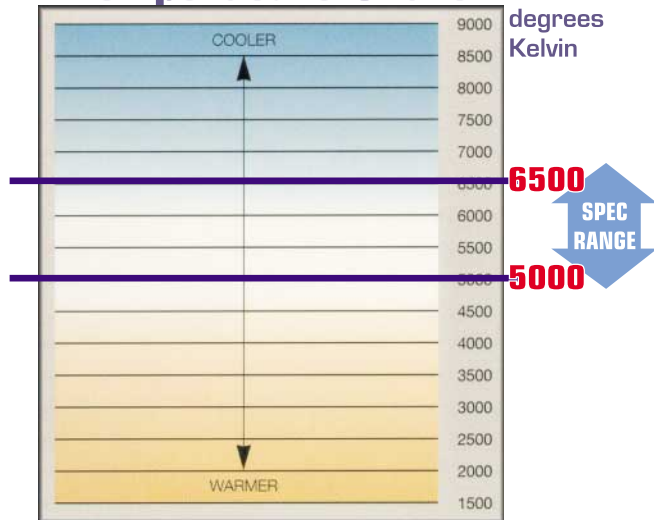


KEY #1

Color-Corrected Light at the Right Temperature

for color matching and blending

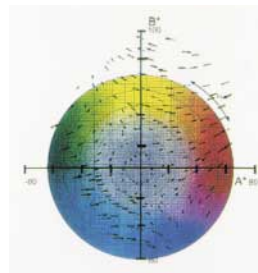
Temperature Chart



Paint Company and Lighting Manufacturers' Specifications

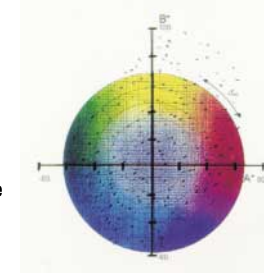
Predictive Color Rendering

(must be greater than 90 CRI)



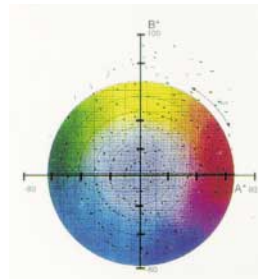
90 CRI
Good

Note: Black arrows and specks designate color imperfections.



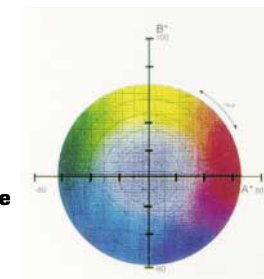
95 CRI
Better

Note: Black arrows and specks designate color imperfections.



98 CRI
Best

Note: Black arrows and specks designate color imperfections.



100 CRI
Perfect

For additional information, contact:
Team Blowtherm Technical Center
1-800-300-1546



KEY #2

Inspection Light Levels

Recommended Light Levels

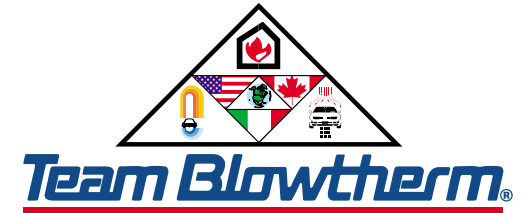
Illumination Engineering Standards

Working space where visual tasks are only occasionally performed	10-20 FC
Performance of visual tasks on material of:	
• High contrast or large size	20-50 FC
• Medium contrast or medium size	50-100 FC
• Low contrast or very small size	100-200 FC
• Low contrast or very small size over a prolonged period	200-500 FC
Refinish painting standards	100-350 FC

Shaded area denotes automotive refinishing levels.
FC = Footcandle

Keys to Success

Spray Booth Lighting



KEY #3

Balanced Light — Light Evenness Ratio

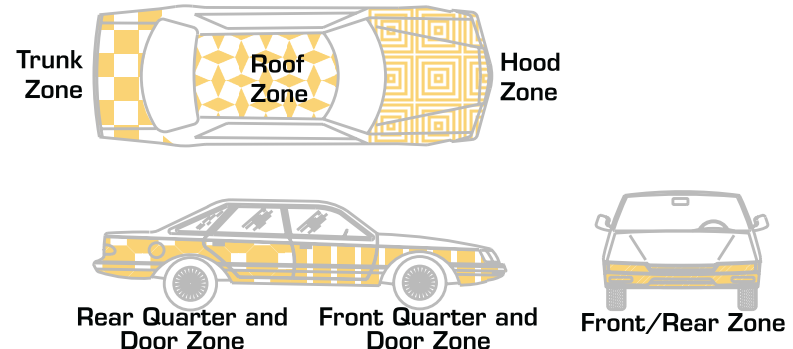
(not just the quantity of tubes)

$$\text{Light Evenness Ratio} = \frac{\text{Highest Footcandle (FC) in Surface Zone}}{\text{Lowest Footcandle (FC) in Surface Zone}}$$

Target Levels per Lighting Standards

- 1.0 : 1.0 = **Perfect evenness**
- 1.5 : 1.0 = **Excellent evenness**
- 2.0 : 1.0 = **Very good evenness**
- 2.5 : 1.0 = **Average evenness**
- > 2.5 : 1.0 = **Poor evenness**

Surface Zones



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