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Report No: L121911518TM30

Date: 1/8/2020



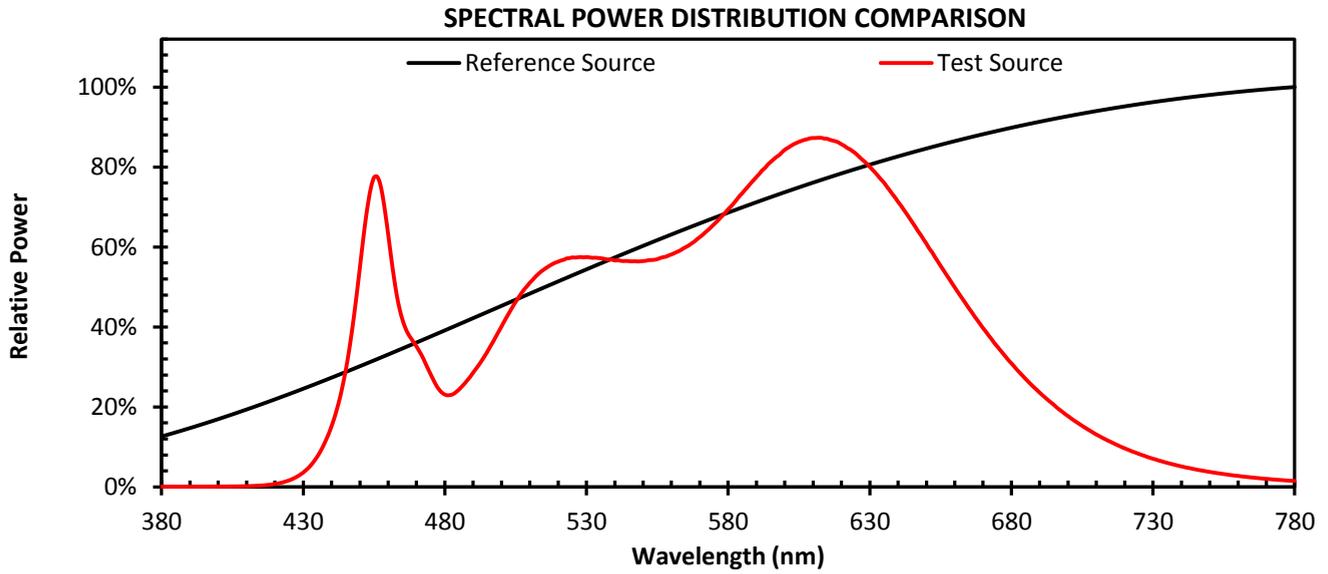
TM-30-15 REPORT

| | |
|-----------------------------|---|
| Report No: | L121911518TM30 |
| Prepared For: | Vode Lighting 21684 8th Street East, Suite 700, Sonoma, CA 95476 |
| Model Number: | 107-WG-48-Z-SO-359-C1-AL |
| Testing Lab: | Light Laboratory Inc. |
| Reference report No: | L121911518 |
| Remark: | This report is based on the data from Light Laboratory Inc. report L121911518 |

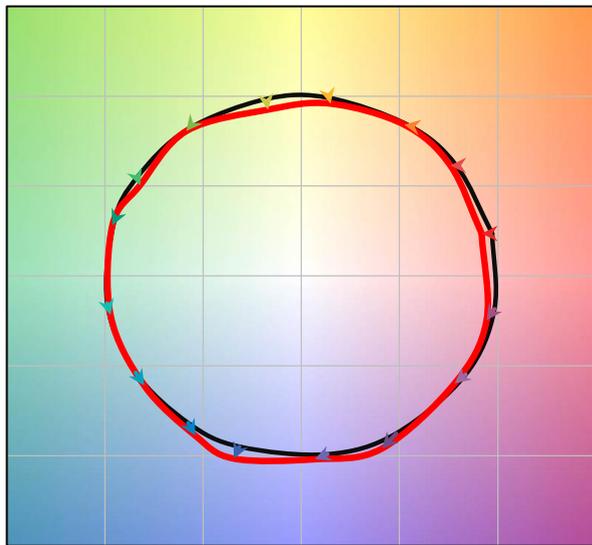
Results Summary

| Metric | Result | Notes |
|--------------|----------------|---|
| R_f | 90 | IES TM-30-15 Fidelity Index |
| R_g | 98 | IES TM-30-15 Gamut Index |
| CIE R_a | 94 | CIE Test Color Method General Index |
| R_9 | 58 | CIE Test Color Method Sample Nine Score |
| $R_{f,skin}$ | 93 | Average of CES15 and CES18 (skin) |
| CCT | 3430 | Correlated Color Temperature |
| D_{uv} | -0.0005 | Distance from the blackbody locus |
| x | 0.4087 | CIE 1931 chromaticity coordinate |
| y | 0.3912 | CIE 1931 chromaticity coordinate |
| u | 0.2377 | CIE 1960 chromaticity coordinate |
| v | 0.3413 | CIE 1960 chromaticity coordinate |
| u' | 0.2377 | CIE 1976 chromaticity coordinate |
| v' | 0.5120 | CIE 1976 chromaticity coordinate |

*All Results in accordance to IES TM-30-15: IES Method for Evaluating Light Source Color Rendition

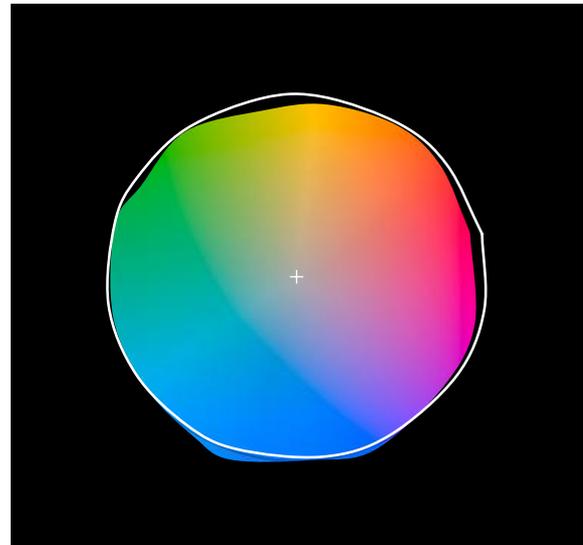


COLOR VECTOR GRAPHIC

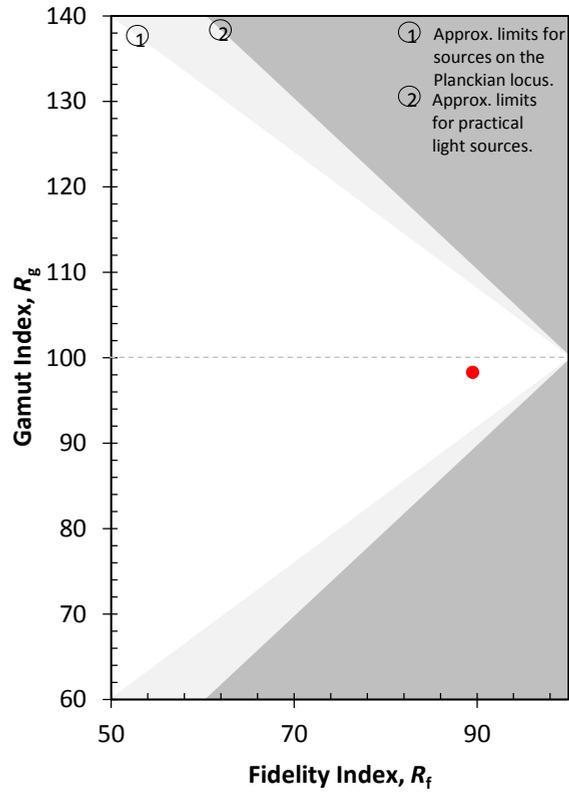


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC



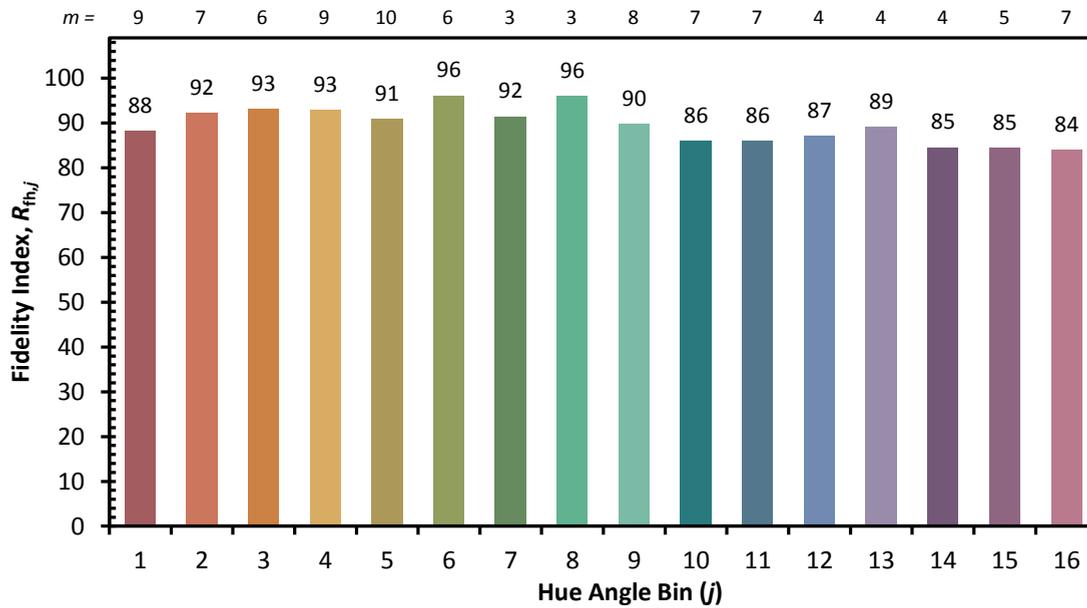
*All Results in accordance to IES TM-30-15: IES Method for Evaluating Light Source Color Rendition



| Hue Bin | R_f | Graphic shifts (%) | |
|---------|-------|--------------------|------|
| | | Chroma | Hue |
| 1 | 88 | -5% | 1% |
| 2 | 92 | -3% | 2% |
| 3 | 93 | -1% | 2% |
| 4 | 93 | -3% | -1% |
| 5 | 91 | -6% | 0% |
| 6 | 96 | 0% | 1% |
| 7 | 92 | -4% | 3% |
| 8 | 96 | 0% | 2% |
| 9 | 90 | 0% | 6% |
| 10 | 86 | 0% | 8% |
| 11 | 86 | 4% | 7% |
| 12 | 87 | 7% | -2% |
| 13 | 89 | 1% | -7% |
| 14 | 85 | 3% | -11% |
| 15 | 85 | -2% | -7% |
| 16 | 84 | -3% | -7% |

*All Results in accordance to IES TM-30-15: IES Method for Evaluating Light Source Color Rendition

Hue Angle Bin vs. Fidelity Index



Hue Angle Bin vs. Change of Chroma

