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Report No: L121911519TM30

Date: 1/8/2020



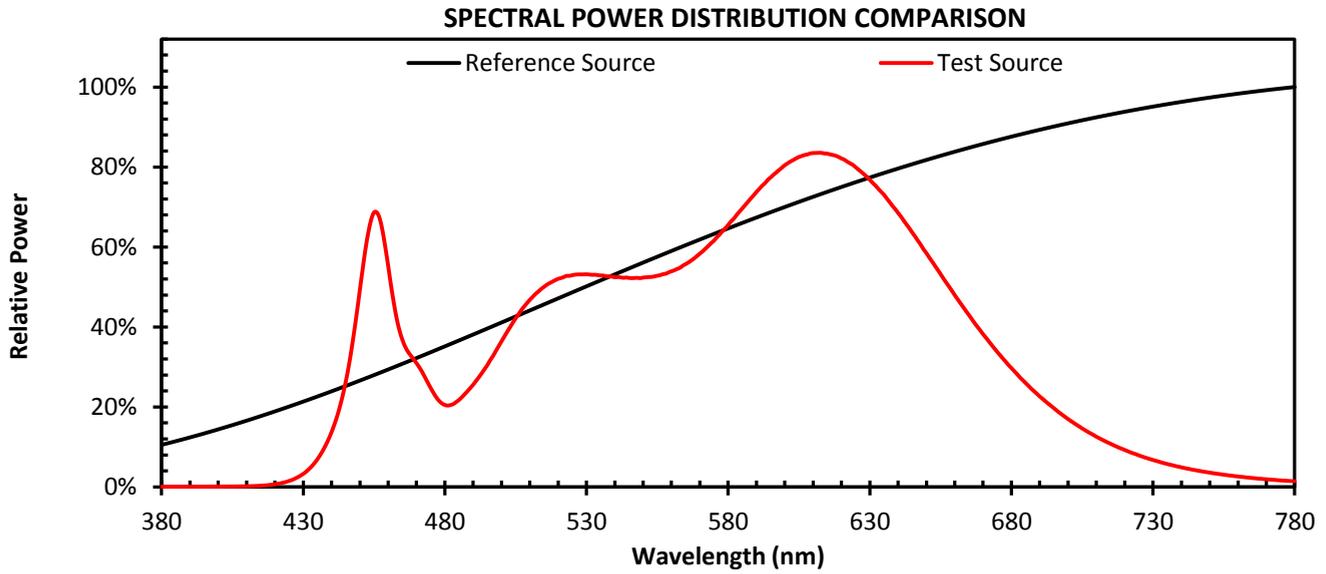
## TM-30-15 REPORT

<b>Report No:</b>	L121911519TM30
<b>Prepared For:</b>	Vode Lighting 21684 8th Street East, Suite 700, Sonoma, CA 95476
<b>Model Number:</b>	107-WG-48-Z-SO-359-WB-AL
<b>Testing Lab:</b>	Light Laboratory Inc.
<b>Reference report No:</b>	L121911519
<b>Remark:</b>	This report is based on the data from Light Laboratory Inc. report L121911519

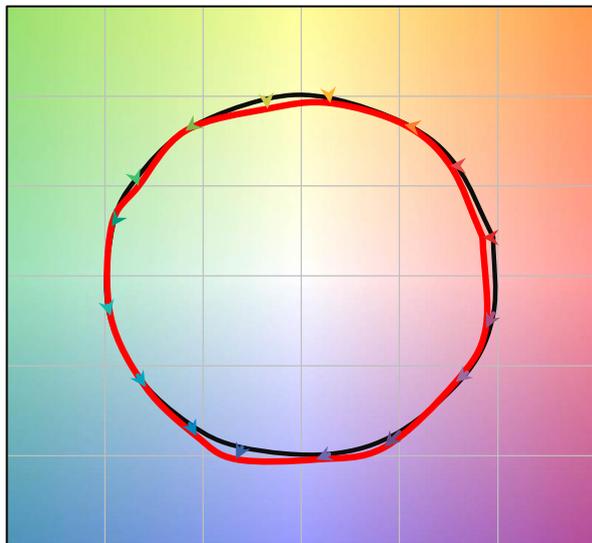
### Results Summary

Metric	Result	Notes
$R_f$	<b>90</b>	IES TM-30-15 Fidelity Index
$R_g$	<b>99</b>	IES TM-30-15 Gamut Index
CIE $R_a$	<b>94</b>	CIE Test Color Method General Index
$R_9$	<b>56</b>	CIE Test Color Method Sample Nine Score
$R_{f,skin}$	<b>94</b>	Average of CES15 and CES18 (skin)
CCT	<b>3323</b>	Correlated Color Temperature
$D_{uv}$	<b>-0.0007</b>	Distance from the blackbody locus
$x$	<b>0.4149</b>	CIE 1931 chromaticity coordinate
$y$	<b>0.3937</b>	CIE 1931 chromaticity coordinate
$u$	<b>0.2407</b>	CIE 1960 chromaticity coordinate
$v$	<b>0.3426</b>	CIE 1960 chromaticity coordinate
$u'$	<b>0.2407</b>	CIE 1976 chromaticity coordinate
$v'$	<b>0.5139</b>	CIE 1976 chromaticity coordinate

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

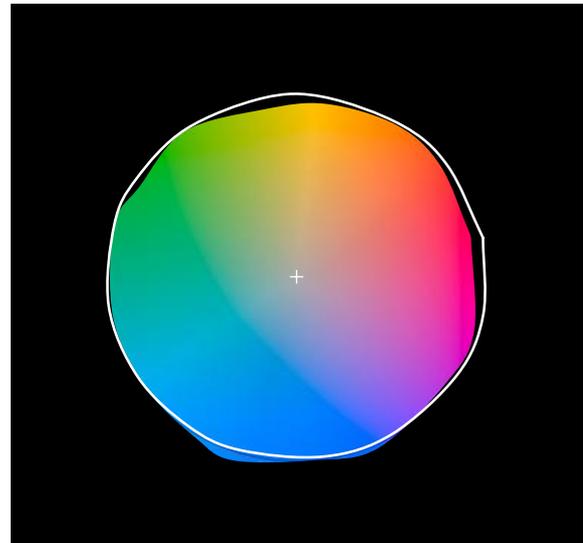


**COLOR VECTOR GRAPHIC**

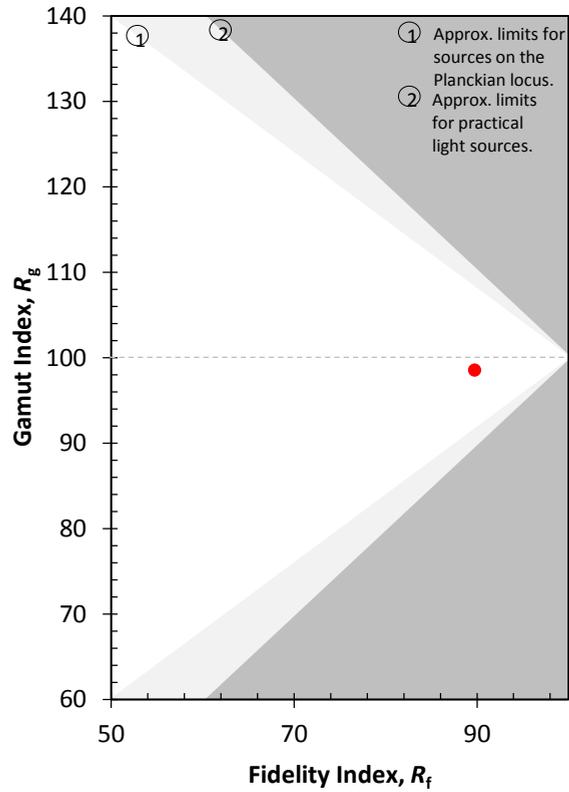


— Reference Illuminant    — Test Source

**COLOR DISTORTION GRAPHIC**



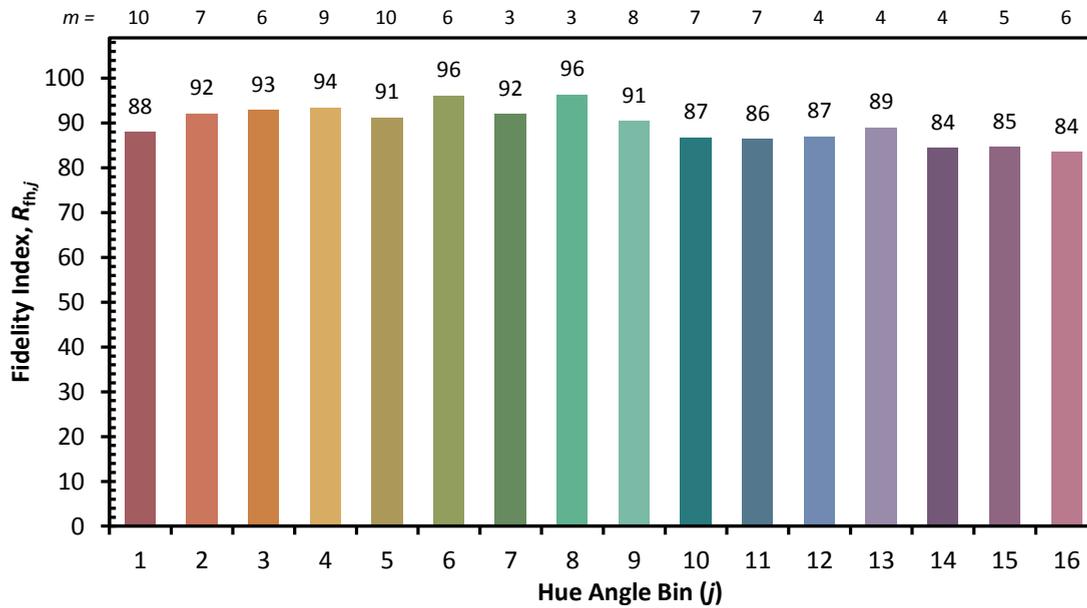
\*All Results in accordance to IES TM-30-15: IES Method for Evaluating Light Source Color Rendition



Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	88	-5%	1%
2	92	-3%	2%
3	93	-1%	2%
4	94	-3%	-1%
5	91	-5%	1%
6	96	0%	1%
7	92	-3%	2%
8	96	1%	2%
9	91	0%	6%
10	87	0%	8%
11	86	4%	7%
12	87	7%	-2%
13	89	2%	-7%
14	84	3%	-11%
15	85	-2%	-7%
16	84	-2%	-9%

\*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**

