



8165 E Kaiser Blvd. Anaheim, CA 92808  
www.lightlaboratory.com

Report No: L121911520TM30

Date: 1/8/2020



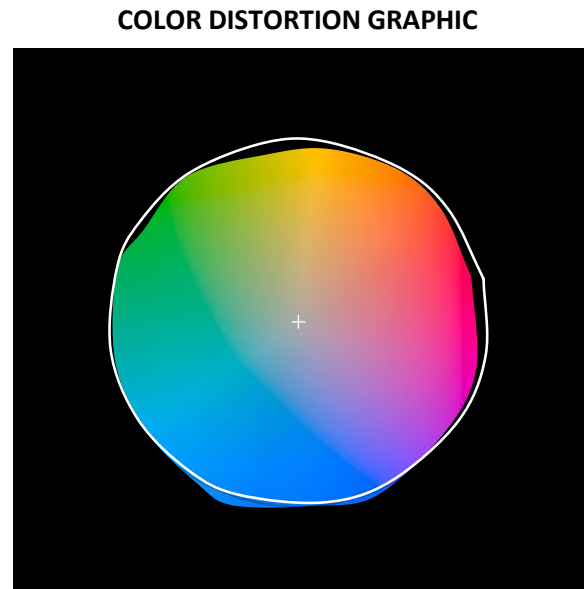
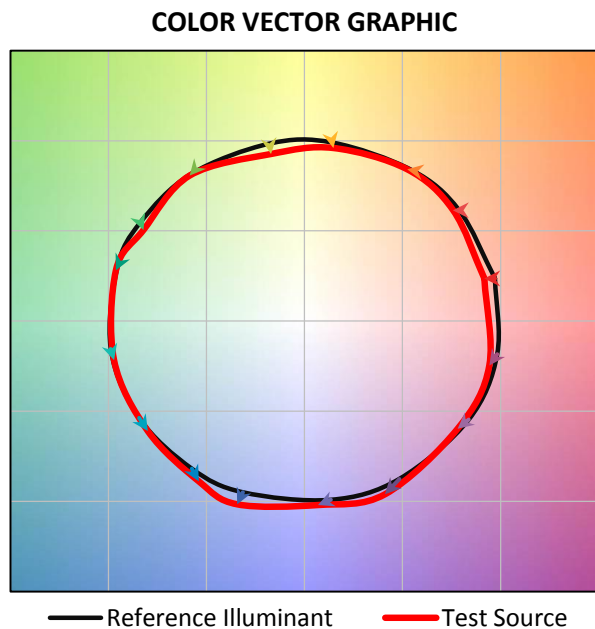
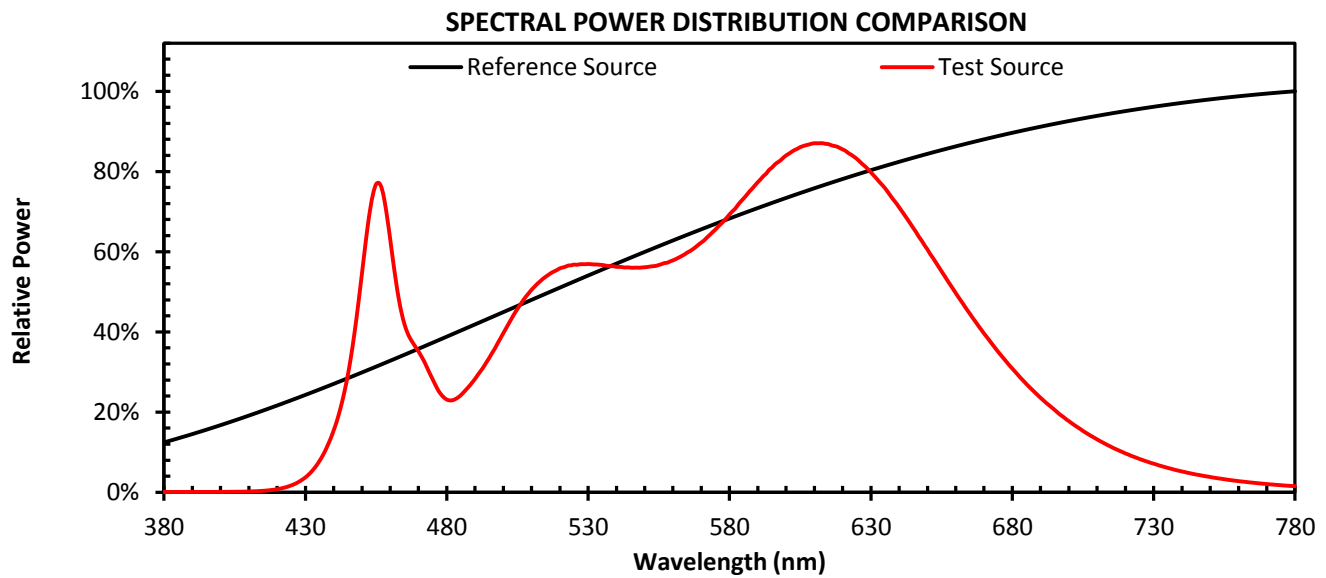
## TM-30-15 REPORT

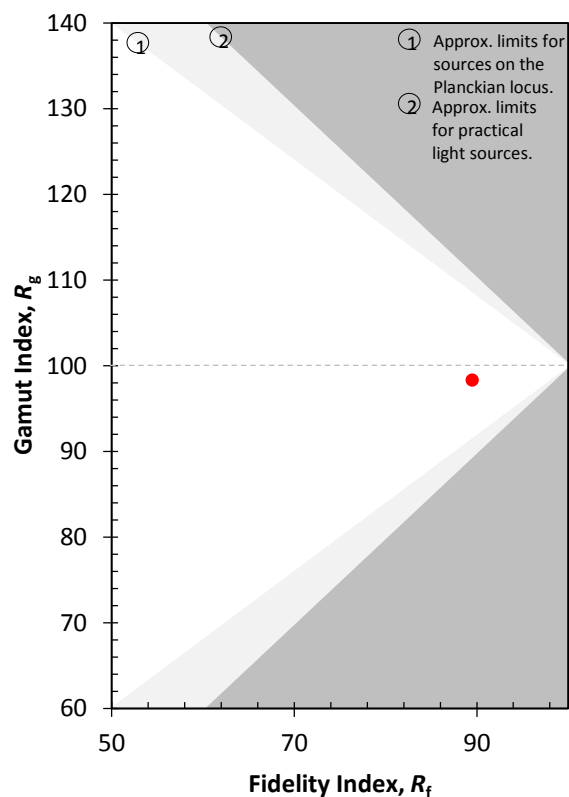
Report No:	L121911520TM30
Prepared For:	Vode Lighting 21684 8th Street East, Suite 700, Sonoma, CA 95476
Model Number:	107-WG-48-Z-SO-359-BB-AL
Testing Lab:	Light Laboratory Inc.
Reference report No:	L121911520
Remark:	This report is based on the data from Light Laboratory Inc. report L121911520

### 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
$R_9$	57	CIE Test Color Method Sample Nine Score
$R_{f,skin}$	93	Average of CES15 and CES18 (skin)
CCT	3421	Correlated Color Temperature
$D_{uv}$	-0.0008	Distance from the blackbody locus
$x$	0.4089	CIE 1931 chromaticity coordinate
$y$	0.3906	CIE 1931 chromaticity coordinate
$u$	0.2381	CIE 1960 chromaticity coordinate
$v$	0.3412	CIE 1960 chromaticity coordinate
$u'$	0.2381	CIE 1976 chromaticity coordinate
$v'$	0.5117	CIE 1976 chromaticity coordinate

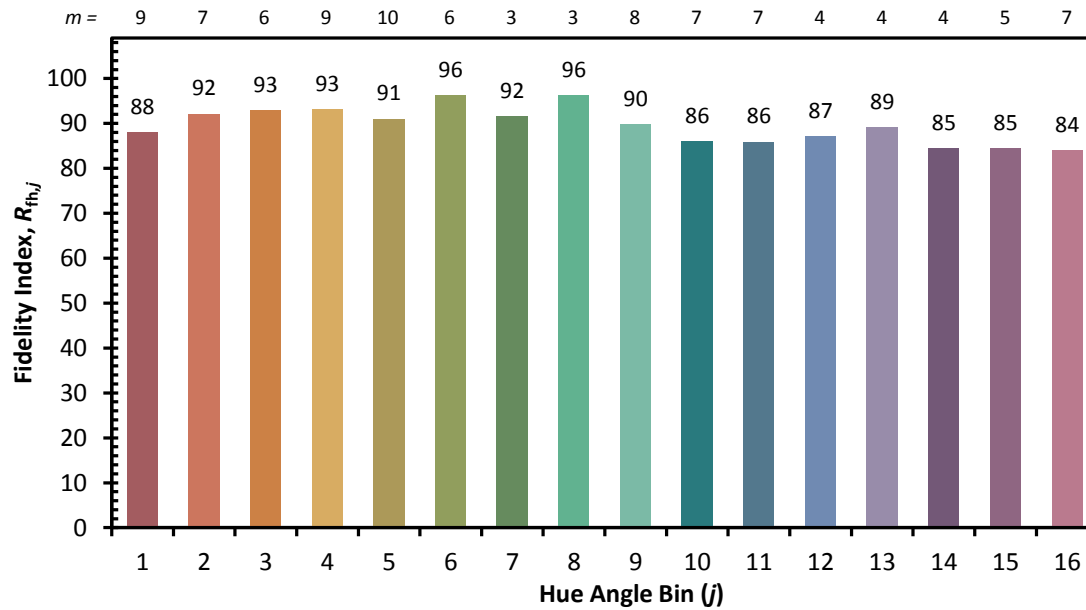
\*All Results in accordance to IES TM-30-15: IES Method for Evaluating Light Source Color Rendition





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	2%	-7%
14	85	3%	-11%
15	85	-2%	-7%
16	84	-3%	-7%

**Hue Angle Bin vs. Fidelity Index**



**Hue Angle Bin vs. Change of Chroma**

