



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

Report No: L072413215



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Report Prepared For: Vode Lighting LLC
21684 8th St E # 700, Sonoma, CA 95476
Model Number: 707-Z2-48-35-80-B4WB-WH_SO
Test: Photometric/Colorimetric/Electrical Test

Issue Date: 8/6/2024
Reference: N/A
Amendment: N/A

Standards Used: Appropriate part or all test guidelines were used for test performed:
IESNA LM79: 2019 Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products
ANSI NEMA ANSLG C78.377: 2017 Specification of the Chromaticity of Solid State Lighting Products
ANSI C82.77-10:2014: Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

Description of Sample: Client submitted the sample. Received in working and undamaged condition. No modifications were necessary.

Special Test Condition: Fixture is tested with no special conditions.

Date of Tests: 8/5/24

Seasoning of Sample: No seasoning was performed in accordance with IESNA LM-79.

Equipment List

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Yokogawa Digital Power Meter	WT210	MT-EL06-S4	4/7/25
HP Power Supply	6032A	PS-DC05-S2	--
Fluke Digital Thermometer	52K/J	MT-TP05	5/24/25
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	--
LLI 2M Sphere	2MR97	CD-SN03-S2	--
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

General Information

Manufacturer:	Vode Lighting LLC
Model Number:	707-Z2-48-35-80-B4WB-WH_SO
Driver Model Number:	MEANWELL HLG-40H-36A

Test Summary

Total Lumens:	1770.00
Efficacy:	67.16
Color Redering Index:	83.0
Correlated Color Temperature:	3312
Input Voltage (VAC/60Hz):	120.04
Input Current (Amp):	0.2212
Input Power (W):	26.36
Input Power Factor:	0.9925
Current ATHD (%):	9.65s%

Test Condition

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:30
Total Operating Time (Hours):	1:05

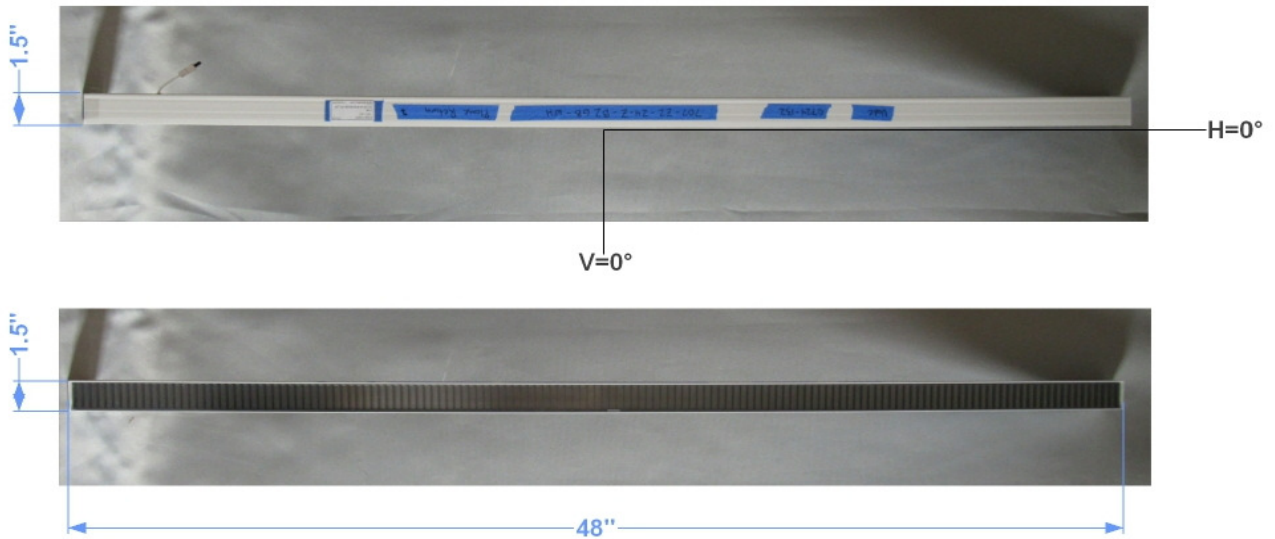
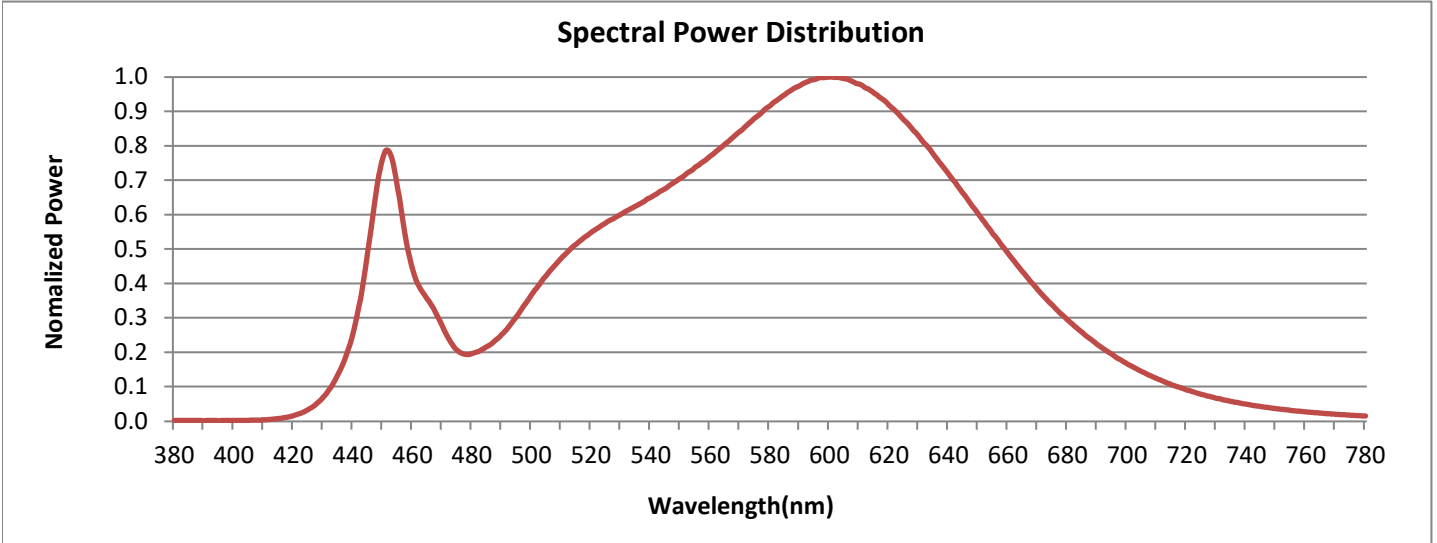


FIG. 1 LUMINAIRE

Colorimetry Test Results

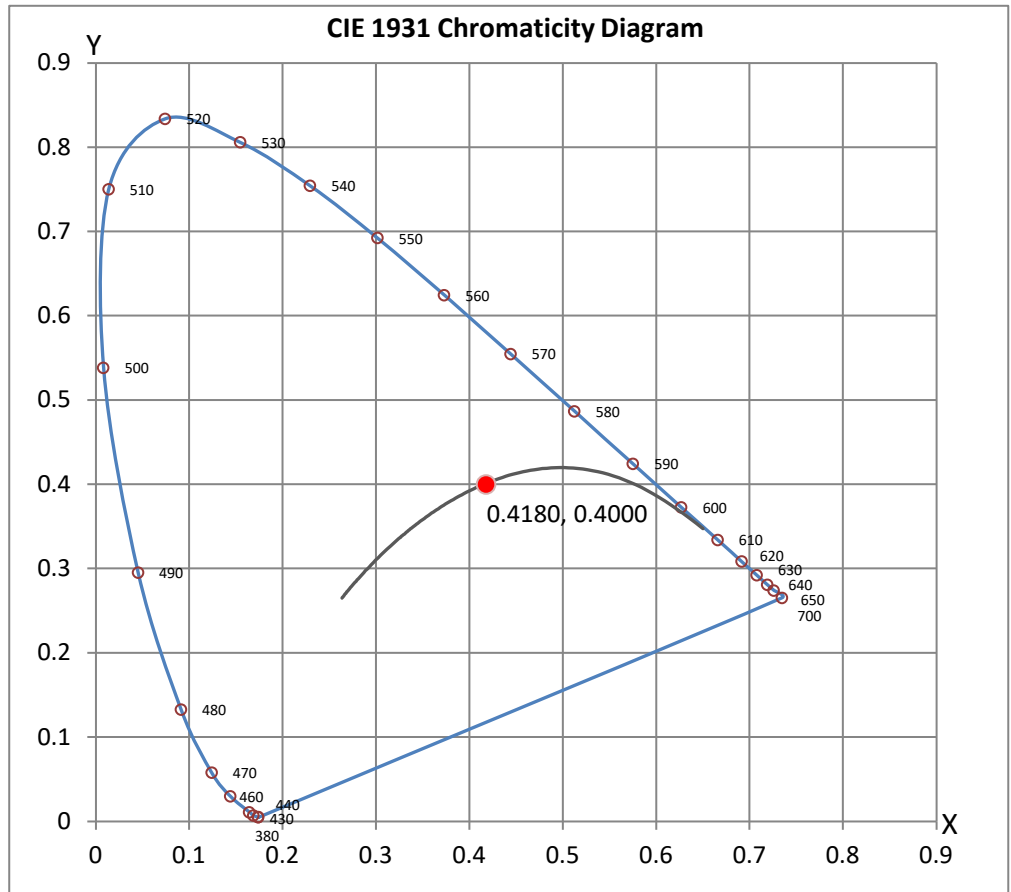


CRI & CCT

x	0.4180
y	0.4000
u'	0.2401
v'	0.5169
CRI	83.00
CCT	3312
Duv	0.00139

R Values

R1	81.09
R2	89.28
R3	96.00
R4	81.86
R5	80.98
R6	86.01
R7	85.63
R8	63.34
R9	12.32
R10	75.02
R11	80.66
R12	63.41
R13	82.85
R14	97.62
R15	74.73





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Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L072413215.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L072413215
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 8/5/2024
[MANUFAC] Vode Lighting LLC
[LUMCAT] 707-Z2-48-35-80-B4WB-WH_SO
[LUMINAIRE] ZipTwo, Ultra Low UGR, Bisymmetric, Gray Baffle, 48", 3500K, 80 CRI, white, standard output
[BALLASTCAT] MEANWELL HLG-40H-36A
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120VAC
[TEST PROCEDURE] IESNA:LM-79-19

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1770
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	26.36
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	1.04
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.13 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9263	5240	4416
55	6822	3636	3252
65	5352	2251	1914
75	3492	965	743
85	865	152	115

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L072413215.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	442.62	N.A.	25.00
0-30	836.01	N.A.	47.20
0-40	1159.27	N.A.	65.50
0-60	1592.95	N.A.	90.00
0-80	1761.49	N.A.	99.50
0-90	1769.66	N.A.	100.00
10-90	1663.76	N.A.	94.00
20-40	716.65	N.A.	40.50
20-50	964.86	N.A.	54.50
40-70	552.36	N.A.	31.20
60-80	168.54	N.A.	9.50
70-80	49.86	N.A.	2.80
80-90	8.17	N.A.	0.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1769.66	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.90
10-20	336.73
20-30	393.38
30-40	323.27
40-50	248.21
50-60	185.47
60-70	118.68
70-80	49.86
80-90	8.17
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L072413215.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	97	91	87	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78
3	96	87	81	76	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69
4	89	80	72	67	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62
5	83	73	65	60	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	67	59	54	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51
7	73	62	54	49	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46
8	69	57	50	45	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39
10	61	50	43	38	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

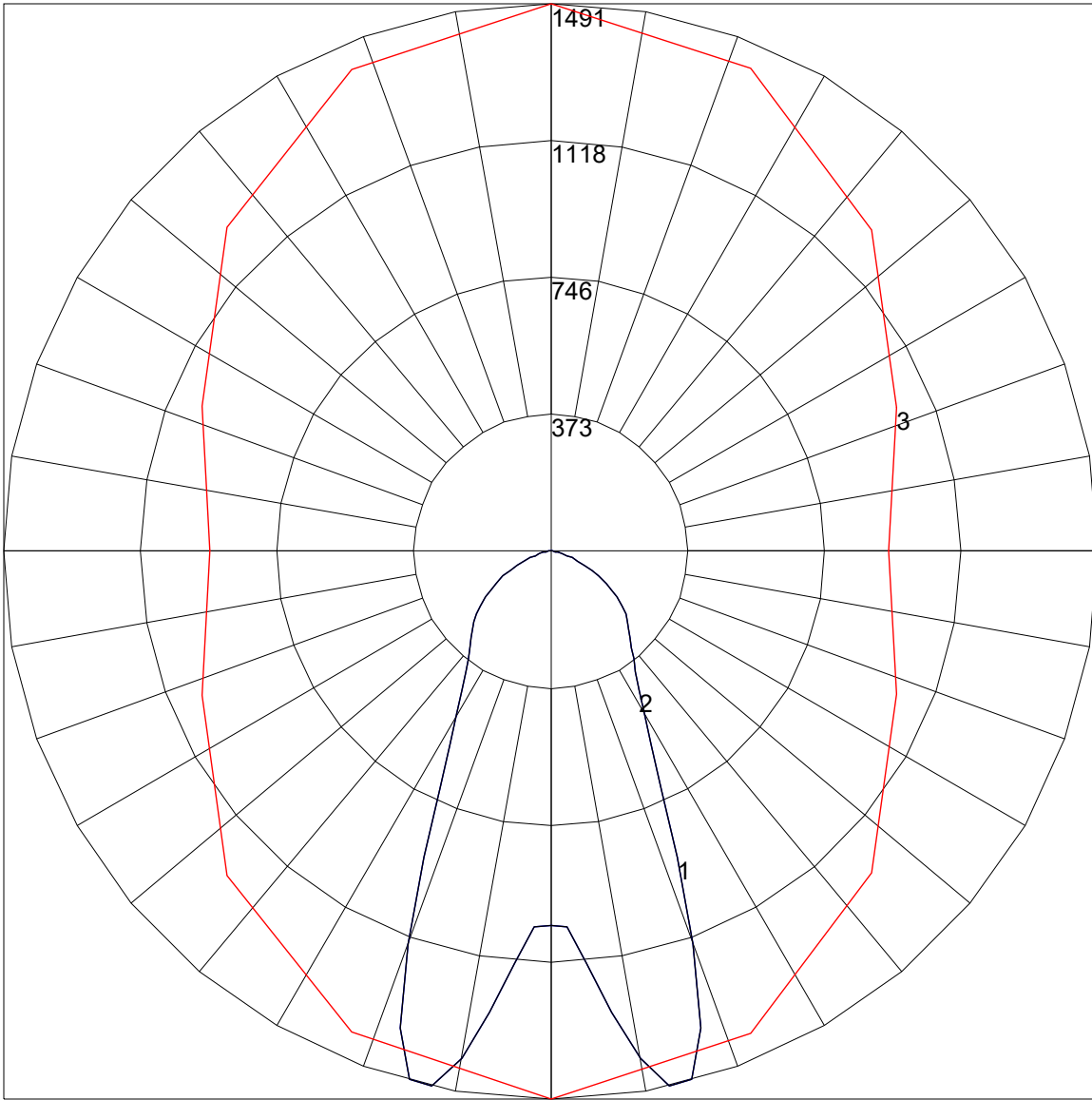
IES INDOOR REPORT
PHOTOMETRIC FILENAME : L072413215.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.3	15.7	14.7	16.0	16.3	16.5	17.9	16.8	18.2	18.5
	3H	15.2	16.4	15.6	16.8	17.1	17.6	18.8	18.0	19.1	19.5
	4H	15.4	16.6	15.8	16.9	17.3	17.8	19.0	18.2	19.3	19.7
	6H	15.5	16.5	15.9	16.9	17.3	17.9	19.0	18.4	19.4	19.7
	8H	15.4	16.4	15.9	16.8	17.2	17.9	18.9	18.4	19.3	19.7
	12H	15.4	16.4	15.8	16.7	17.2	17.9	18.9	18.4	19.3	19.7
4H	2H	14.7	15.9	15.1	16.2	16.6	16.6	17.8	17.0	18.1	18.5
	3H	15.8	16.7	16.2	17.1	17.5	17.8	18.8	18.3	19.2	19.6
	4H	16.0	16.9	16.5	17.3	17.7	18.1	19.0	18.6	19.4	19.8
	6H	16.1	16.9	16.6	17.3	17.8	18.3	19.0	18.8	19.5	19.9
	8H	16.1	16.8	16.6	17.2	17.7	18.3	19.0	18.8	19.4	19.9
	12H	16.1	16.7	16.6	17.2	17.6	18.3	18.9	18.8	19.4	19.8
8H	4H	16.1	16.8	16.6	17.2	17.7	18.1	18.8	18.6	19.2	19.7
	6H	16.2	16.8	16.7	17.3	17.8	18.3	18.8	18.8	19.3	19.8
	8H	16.2	16.7	16.7	17.2	17.7	18.3	18.8	18.8	19.3	19.8
	12H	16.2	16.6	16.7	17.1	17.7	18.3	18.7	18.8	19.2	19.8
12H	4H	16.1	16.7	16.6	17.2	17.7	18.1	18.7	18.6	19.2	19.6
	6H	16.2	16.7	16.7	17.2	17.7	18.2	18.7	18.7	19.2	19.7
	8H	16.2	16.6	16.7	17.1	17.7	18.2	18.7	18.8	19.2	19.8

Maximum UGR = 19.9

POLAR GRAPH



Maximum Candela = 1491 Located At Horizontal Angle = 90, Vertical Angle = 12.5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)

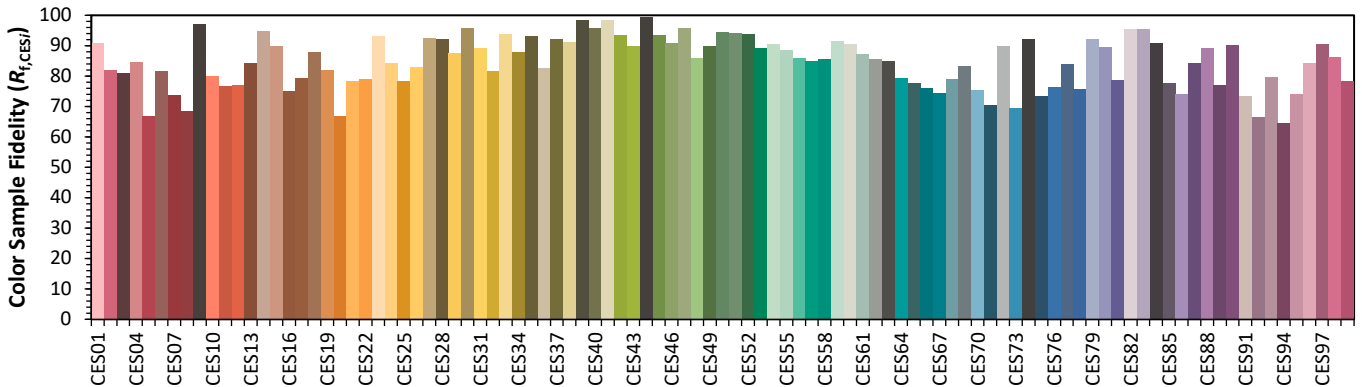
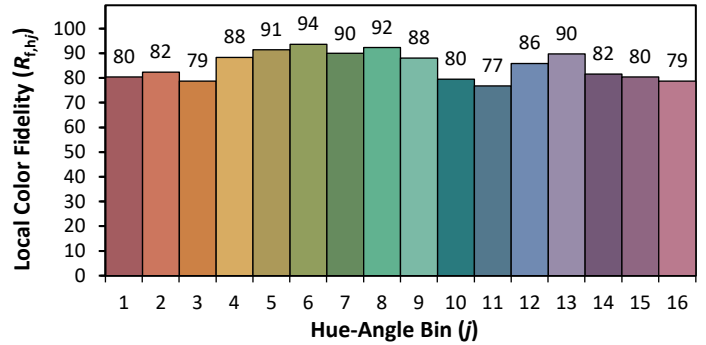
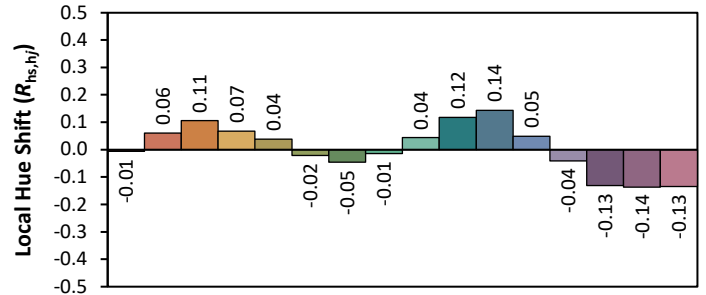
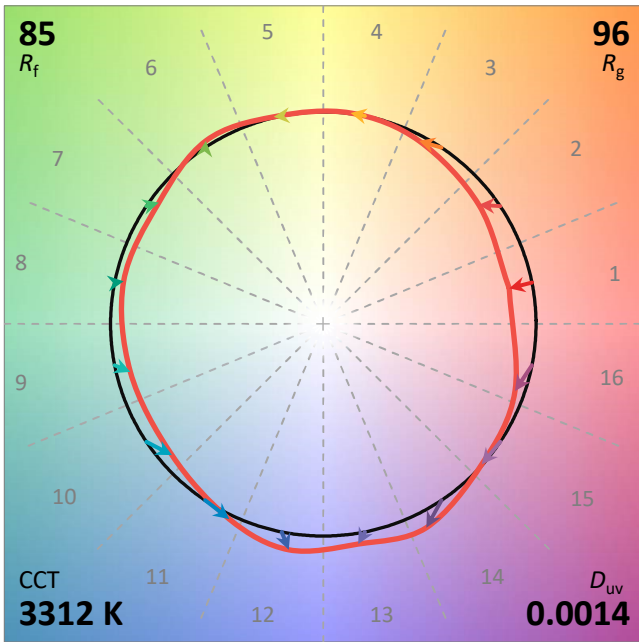
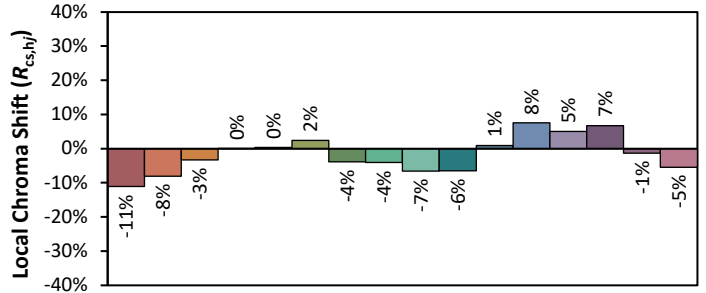
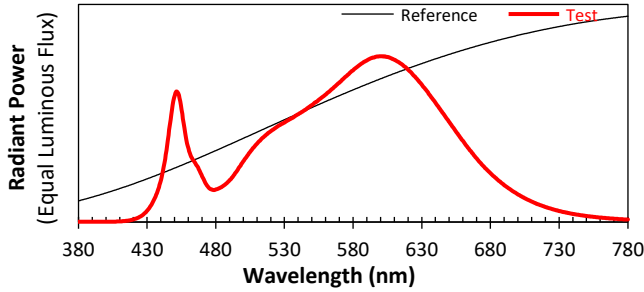
ANSI/IES TM-30-18 Color Rendition Report

Source: L072413215

Manufacturer: Vode

Date: 8/2/2024

Model: 707-Z2-48-35-80-B4WB-WH_SO



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4180
y 0.4000
u' 0.2401
v' 0.5170

CIE 13.3-1995	
(CRI)	
R _a	83
R _g	12