



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

Report No: L092212513



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Issue Date: 9/30/2022

Report Prepared For: Vode Lighting LLC
21684 8th St E #700, Sonoma. CA-95476

Model Number: 807-NX5-SL-48-XX-0-XX-XX-2-0-Z-SO-35-CE-0-AL-0

Test: Photometric/Colorimetric/Electrical Test

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: 9/30/22

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	4/7/23
HP Power Supply	6032A	PS-DC05-S2	--
Fluke Digital Thermometer	52K/J	MT-TP05	3/17/23
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:	807-NX5-SL-48-XX-0-XX-XX-2-0-Z-SO-35-CE-0-AL-0
Driver Model Number:	MEAN WELL HLG-40H-36A

Test Summary

Total Lumens:	3550.00
Efficacy:	134.67
Color Redering Index:	83.1
Correlated Color Temperature:	3333
Input Voltage (VAC/60Hz):	120.00
Input Current (Amp):	0.2215
Input Power (W):	26.36
Input Power Factor:	0.9925
Current ATHD (%):	9.6%

Test Condition

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:45
Total Operating Time (Hours):	1:35

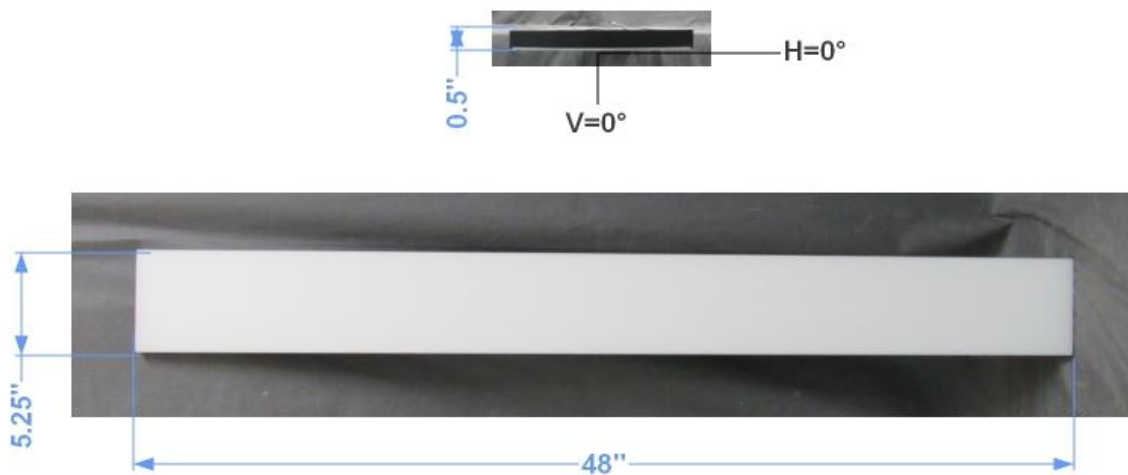
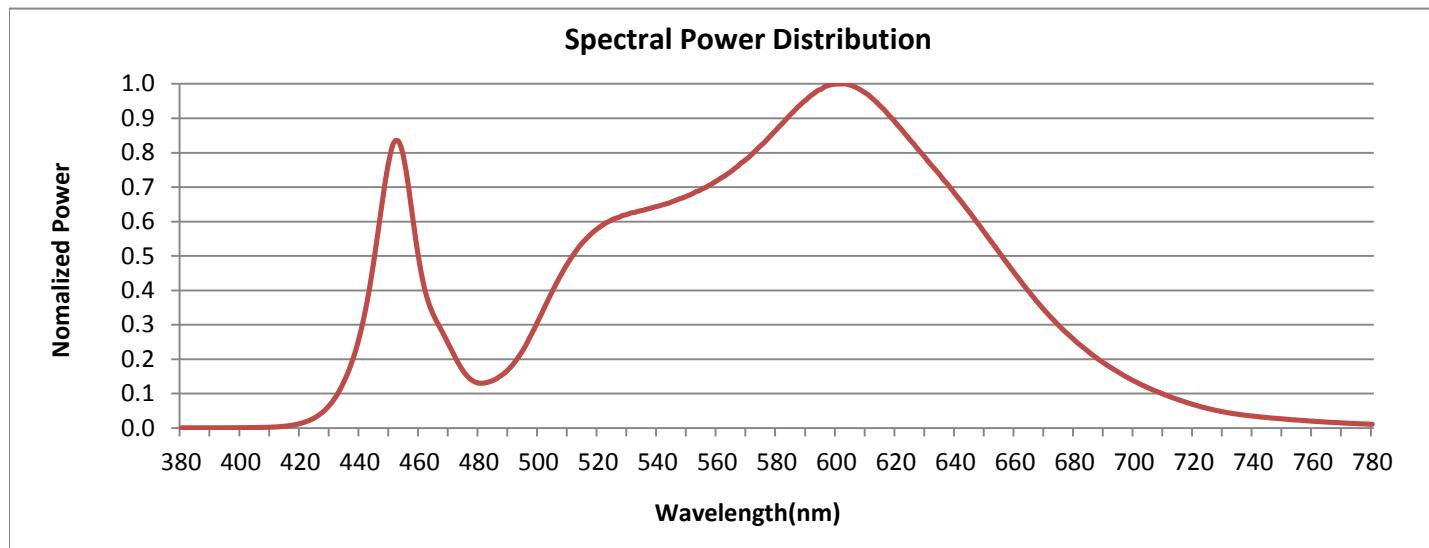


FIG. 1 LUMINAIRE

Colorimetry Test Results

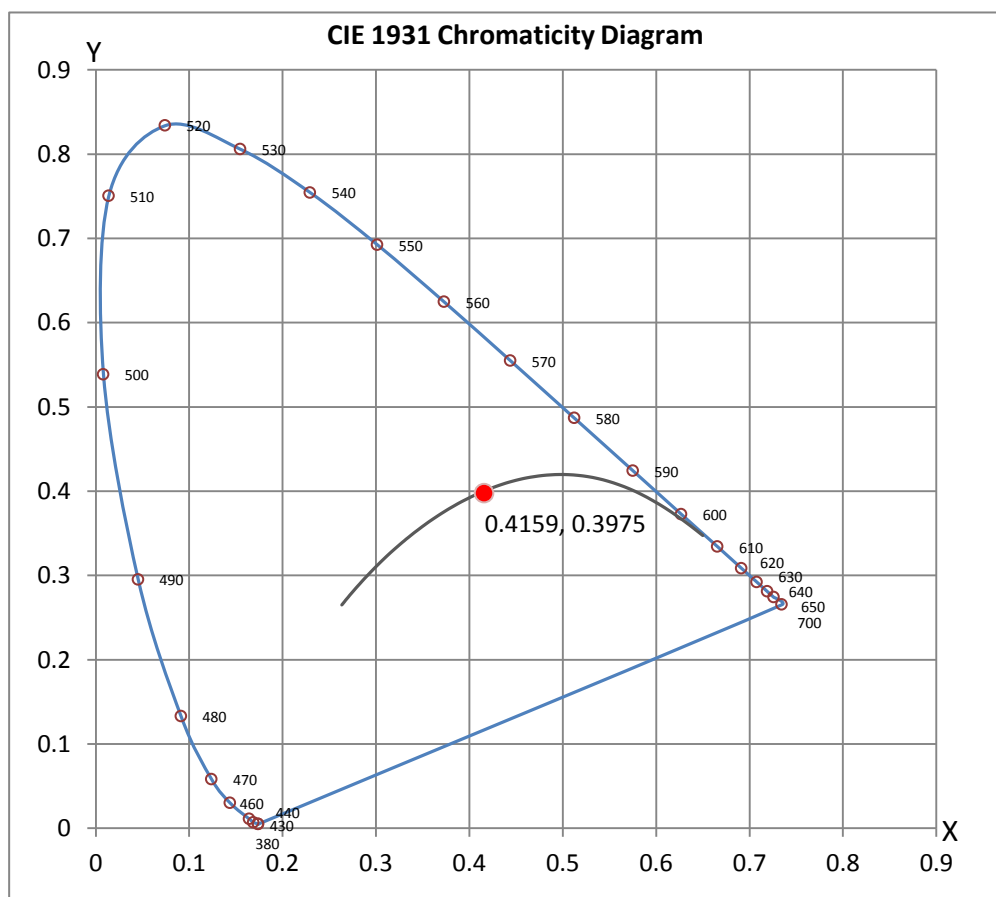


CRI & CCT

x	0.4159
y	0.3975
u'	0.2398
v'	0.5156
CRI	83.10
CCT	3333
Duv	0.00074

R Values

R1	82.10
R2	88.68
R3	94.41
R4	83.69
R5	81.81
R6	85.55
R7	85.61
R8	63.11
R9	10.05
R10	73.46
R11	83.80
R12	60.77
R13	83.63
R14	96.51
R15	74.93





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Test Methods

Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Disclaimers:

The results related only to the samples as received and tested. This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government.

Report Prepared by : Kunjan Modi

Test Report Reviewed by:

Steve Kang
Quality Assurance

**Attached are photometric data reports.*



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Photometric Test Report

IES INDOOR REPORT

PHOTOMETRIC FILENAME : L092212513.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L092212513
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 9/30/2022
[MANUFAC] Vode Lighting LLC
[LUMCAT] 807-NX5-SL-48-XX-0-XX-XX-2-0-Z-SO-35-CE-0-AL-0
[LUMINAIRE] System 807, Nexa5, Surface, 48, Surface Mount
[BALLASTCAT] MEAN WELL 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-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3550
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	26.36
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.44 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7051	7034	6973
55	6850	6828	6754
65	6593	6549	6463
75	6303	6256	6138
85	6450	6450	6239

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L092212513.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	439.82	N.A.	12.40
0-30	934.54	N.A.	26.30
0-40	1532.14	N.A.	43.20
0-60	2728.18	N.A.	76.90
0-80	3453.51	N.A.	97.30
0-90	3549.56	N.A.	100.00
10-90	3435.87	N.A.	96.80
20-40	1092.31	N.A.	30.80
20-50	1717.47	N.A.	48.40
40-70	1642.78	N.A.	46.30
60-80	725.33	N.A.	20.40
70-80	278.60	N.A.	7.80
80-90	96.05	N.A.	2.70
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	3549.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.69
10-20	326.13
20-30	494.72
30-40	597.59
40-50	625.16
50-60	570.89
60-70	446.73
70-80	278.60
80-90	96.05
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 : L092212513.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	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

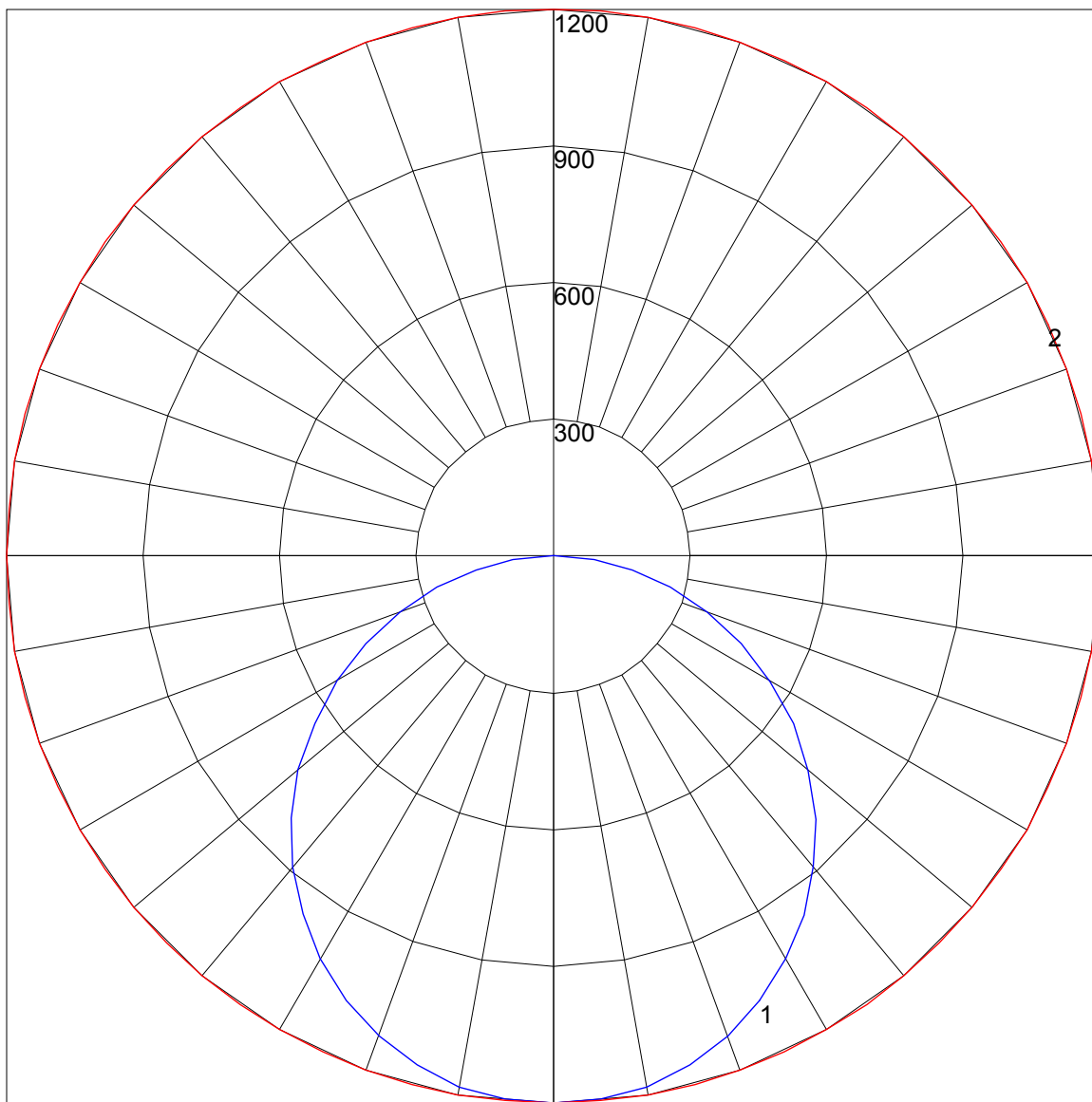
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UGR TABLE - CORRECTED

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	18.8	20.5	19.2	20.8	21.1	18.8	20.4	19.1	20.7	21.1
	3H	20.8	22.3	21.2	22.6	23.0	20.7	22.2	21.1	22.5	22.9
	4H	21.6	23.0	22.0	23.4	23.7	21.5	22.9	21.9	23.3	23.6
	6H	22.2	23.6	22.7	23.9	24.3	22.1	23.4	22.5	23.8	24.2
	8H	22.5	23.8	22.9	24.2	24.6	22.4	23.6	22.8	24.0	24.4
	12H	22.7	23.9	23.1	24.3	24.7	22.6	23.8	23.0	24.2	24.6
4H	2H	19.5	20.9	19.9	21.3	21.7	19.4	20.9	19.8	21.2	21.6
	3H	21.7	22.9	22.1	23.3	23.7	21.6	22.8	22.0	23.2	23.6
	4H	22.6	23.7	23.1	24.1	24.6	22.5	23.6	23.0	24.0	24.5
	6H	23.5	24.4	23.9	24.8	25.3	23.3	24.3	23.8	24.7	25.2
	8H	23.8	24.7	24.2	25.1	25.6	23.6	24.5	24.1	25.0	25.4
	12H	24.0	24.8	24.5	25.3	25.8	23.9	24.7	24.4	25.2	25.7
8H	4H	23.0	23.9	23.5	24.4	24.8	22.9	23.8	23.4	24.3	24.7
	6H	24.0	24.7	24.5	25.2	25.7	23.9	24.6	24.4	25.1	25.6
	8H	24.4	25.1	24.9	25.6	26.1	24.3	24.9	24.8	25.4	25.9
	12H	24.8	25.4	25.3	25.9	26.4	24.6	25.2	25.1	25.7	26.3
12H	4H	23.1	23.9	23.5	24.4	24.8	23.0	23.8	23.4	24.3	24.7
	6H	24.1	24.8	24.6	25.2	25.8	24.0	24.6	24.5	25.1	25.6
	8H	24.6	25.2	25.1	25.6	26.2	24.4	25.0	24.9	25.5	26.1

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 1200 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)