

Report No: L102310102

TESTING

NVLAP LAB CODE 200927-0

Report No: L102310102 Issue Date: 10/24/2023

Reference:N/A

Report Prepared For: AVENUE LIGHTING

Amendment:N/A

9000 FULLBRIGHT AVE. CHATSWORTH CA. 91311

Model Number: AV9899-BLK

Test: Photometric/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: 10/23/23

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		

Manufacturer: AVENUE LIGHTING

Model Number: AV9899-BLK
Driver Model Number: CUSTOM

Photometric & Electrical Test Results

 Total Lumens:
 449.00

 Efficacy:
 20.09

 Input Voltage (VAC/60Hz):
 120.05

 Input Current (Amp):
 0.2001

 Input Power (W):
 22.34

 Input Power Factor:
 0.9303

 Current ATHD (%):
 39.3%

Test Condition

Ambient Temperature (°C): 25.0
Stabilization Time (Hours): 0:50
Total Operating Time (Hours): 1:30

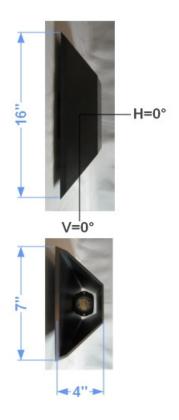


FIG. 1 LUMINAIRE





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:		
-	•	d and tested. This report must not be used by the customer to claim NVLAP, NIST or any agency of the Federal Government.
Report Prepared by :	JG	
		Test Report Reviewed by:

Steve Kang Quality Assurance

*Attached are photometric data reports.



Photometric Test Report

IES ROAD REPORT

PHOTOMETRIC FILENAME: L102310102.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002 [TEST] L102310102

[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)

[ISSUEDATE] 10/24/2023

[MANUFAC] AVENUE LIGHTING

[LUMCAT] AV9899-BLK [LUMINAIRE] 120 V AC LED [BALLASTCAT] CUSTOM

[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

IES Classification N.A. Longitudinal Classification N.A.

Lumens Per Lamp N.A. (absolute) **Total Lamp Lumens** N.A. (absolute)

Luminaire Lumens 449

Downward Total Efficiency N.A. (absolute) Total Luminaire Efficiency N.A. (absolute)

Luminaire Efficacy Rating (LER) 20 **Total Luminaire Watts** 22.34 **Ballast Factor** 1.00 Upward Waste Light Ratio 0.50 Maximum Candela 286 Maximum Candela Angle 10H 170V Maximum Candela (<90 Degrees Vertical) 286

Maximum Candela Angle (<90 Degrees Vertical) 10H 12.5V

Maximum Candela At 90 Degrees Vertical 0 (0.0% Luminaire Lumens) Maximum Candela from 80 to <90 Degrees Vertical 1 (0.2% Luminaire Lumens)

Cutoff Classification (deprecated) N.A. (absolute)

IES ROAD REPORT

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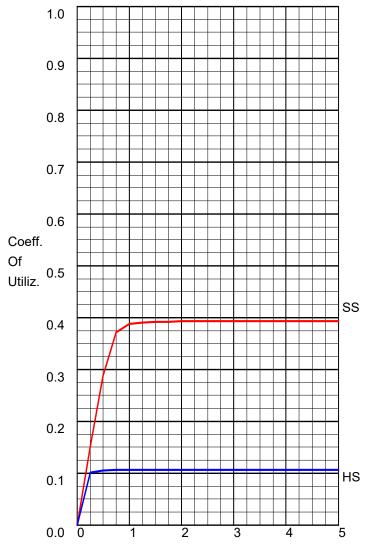
LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	109.6	N.A.	24.4
FM - Front-Medium (30-60)	66.4	N.A.	14.8
FH - Front-High (60-80)	0.9	N.A.	0.2
FVH - Front-Very High (80-90)	< 0.05	N.A.	0.0
BL - Back-Low (0-30)	44.3	N.A.	9.9
BM - Back-Medium (30-60)	3.3	N.A.	0.7
BH - Back-High (60-80)	< 0.05	N.A.	0.0
BVH - Back-Very High (80-90)	0.0	N.A.	0.0
UL - Uplight-Low (90-100)	< 0.05	N.A.	0.0
UH - Uplight-High (100-180)	224.4	N.A.	50.0
Total	448.9	N.A.	100.0
BUG Rating	B0-U3-G0		

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COEFFICIENTS OF UTILIZATION

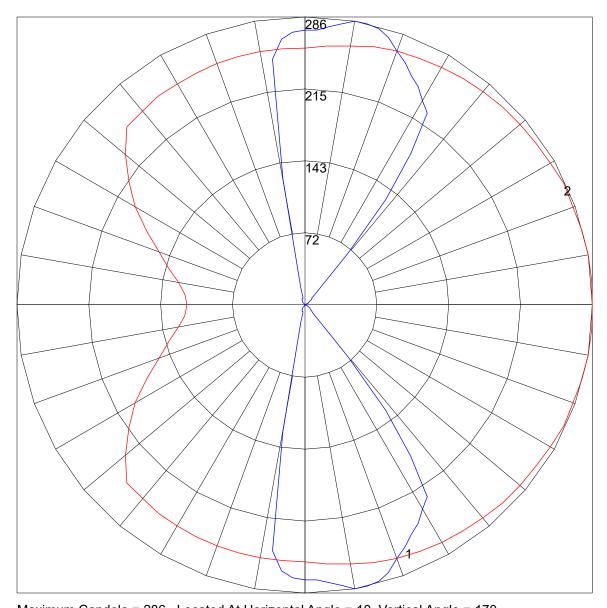


Street Width / Mounting Height

FLUX DISTRIBUTION

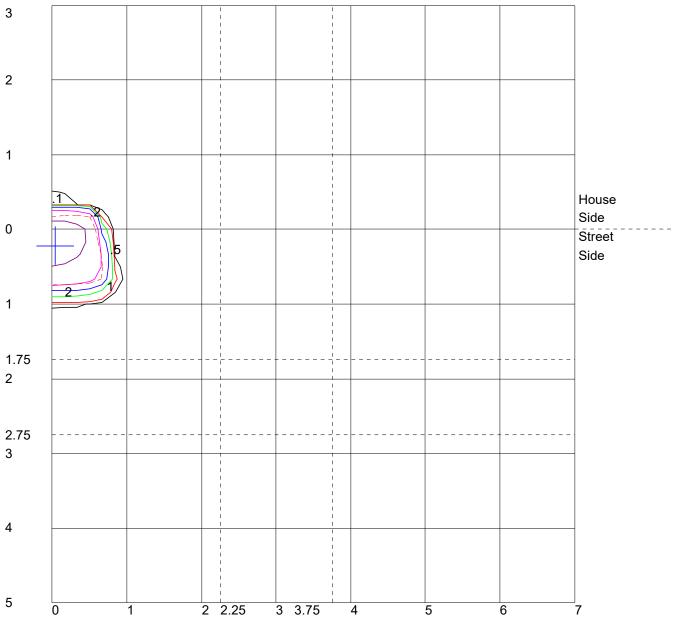
	Lumens	Percent Of Luminaire
Downward Street Side	176.8	39.4
Downward House Side	47.6	10.6
Downward Total	224.4	50.0
Upward Street Side	176.8	39.4
Upward House Side	47.6	10.6
Upward Total	224.4	50.0
Total Flux	448.8	100.0

POLAR GRAPH



Maximum Candela = 286 Located At Horizontal Angle = 10, Vertical Angle = 170 # 1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.) # 2 - Horizontal Cone Through Vertical Angle (170) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 6 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point