

# ENERGY HARNESS CORPORATION TEST REPORT

**SCOPE OF WORK**

UV Performance Testing

**MODEL NUMBER**

EHF-UVC-AA2X4-277

**PROJECT NUMBER**

G104466224

**REPORT NUMBER**

104466224CRT-002

**ISSUE DATE**

10/19/2020

**REVISED DATE**

None

**TEST DATES**

10/19/2020

**DOCUMENT CONTROL NUMBER**

RTTDS-R-AMER-Test-3407

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**REPORT NUMBER**

104466224CRT-002

**MODEL NUMBER(s)**

EHF-UVC-AA2X4-277

**REPORT RENDERED TO:**

ENERGY HARNESS CORPORATION  
71 MID CAPE TERRACE SUITE 8  
CAPE CORAL, FL 33991  
USA

**AUTHORIZATION**

The testing performed was authorized by signed quote number Qu-01095179-6.

**TEST STANDARDS**

IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting  
IESNA LM-58 - 2013: Spectroradiometric Measurement Methods for Light Sources

In Charge of Testing:



Kristie Ray  
Team Lead, Engineering  
Lighting Division

Reviewer:



Dave Ellis  
Senior Project Engineer  
Lighting Division

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**SUMMARY**

**REPORT NO. 104466224CRT-002**

PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	EHF-UVC-AA2X4-277
Product Description:	2' x 4' Active Air UVC Upper Air Purification Unit
Light Source Model No.:	CONFIDENTIAL
Driver/Ballast Model No.:	CONFIDENTIAL
Light Source:	LED, Hg Lamp, etc

TEST METHODS

**SEASONING IN SAMPLE ORIENTATION**

No seasoning was performed for LED sources.

**SPECTRORADIOMETER TESTING**

A spectroradiometer was used to measure the spectral irradiance for each EUT at a specified distance and wavelength range. Electrical measurements of the unit were measured using a power analyzer. Each EUT was operated at the rated input voltage of the system in its designated orientation. The ambient temperature was measured at a position near the EUT at equal height and stabilization procedures to the applicable IESNA LM standards were followed.

\*Not NVLAP Accredited

## SAMPLE INFORMATION

**REPORT NO. 104466224CRT-002**

### ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	CRT2009301250-001	EHF-UVC-AA2X4-277	2' x 4' Active Air UVC Upper Air Purification Unit	Production	9/30/2020

### TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	EHF-UVC-AA2X4-277	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



**SPECTRORADIOMETER TESTING**

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Test Configuration	Tested Model No.	Pass/Fail/NA
1	EHF-UVC-AA2X4-277	NA

**RADIOMETRIC AND ELECTRICAL MEASUREMENTS**

Base Orientation	Input Voltage (Vac)
Up	120.00

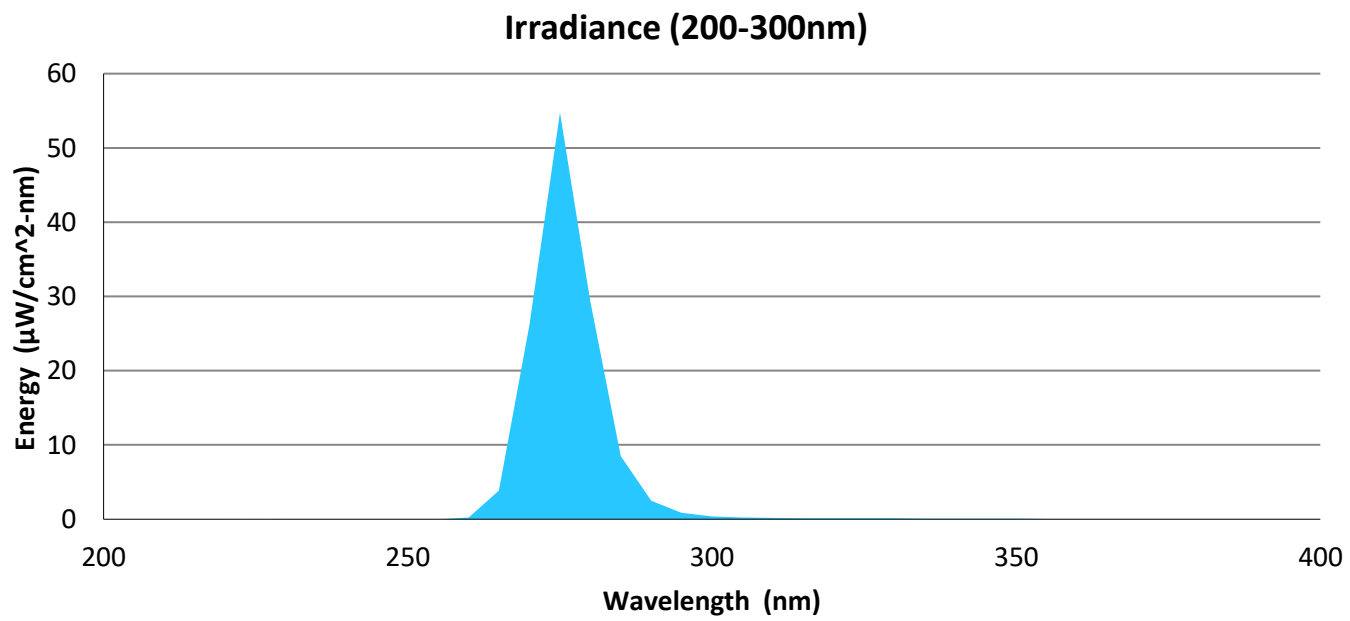
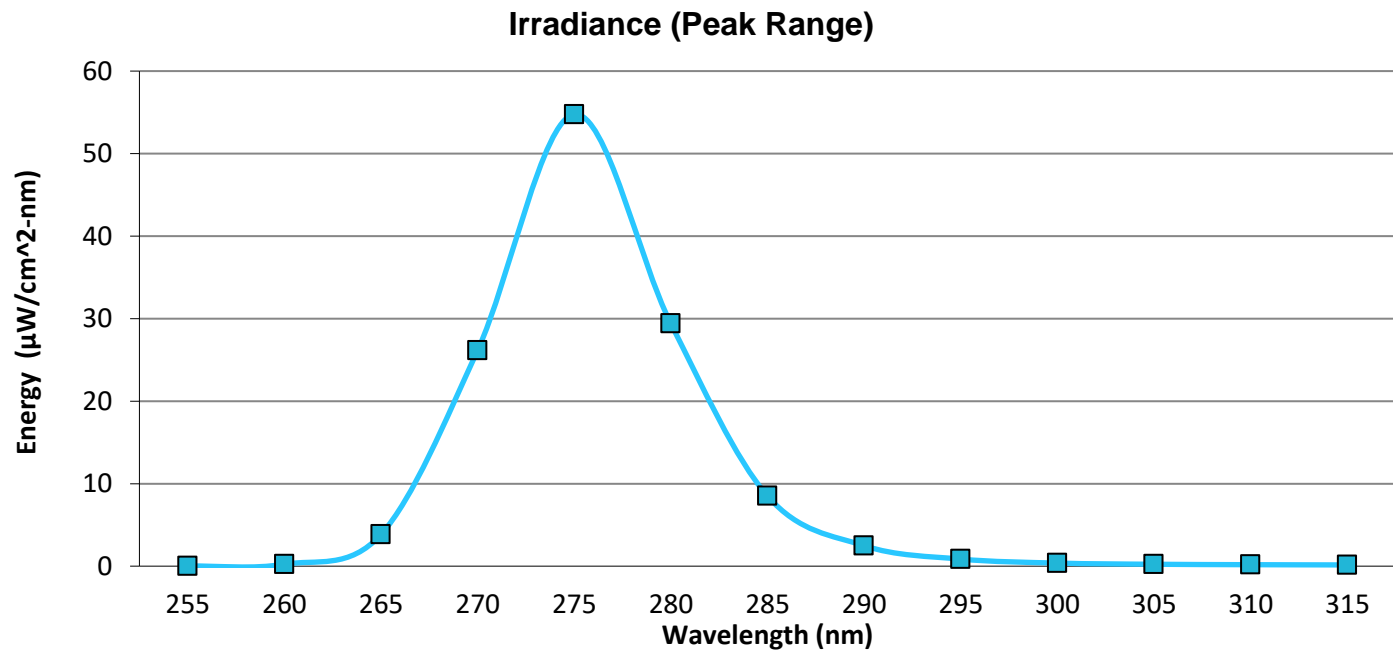
Test Distance (cm)	Summated Wavelength Range (nm)
20.00	255-315

Point of Measurement
Approximately the center of the aperture - levelled at 0H,0V

**SPECTRAL DISTRIBUTION OVER WAVELENGTHS**

nm	$\mu\text{W}/\text{cm}^2\text{-nm}$
255	0.0
260	0.2
265	3.8
270	26.1
275	54.8
280	29.4
285	8.5
290	2.5
295	0.9
300	0.4
305	0.2
310	0.2
315	0.1
<b>Sum</b>	254.3 $\mu\text{W}/\text{cm}^2$

Irradiance Plots



**EQUIPMENT LIST**

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#	Equipment	Model No	Control No.	Last Cal	Cal Due
1	Spectroradiometer	OL 750	E288	9/17/2020	10/17/2020
2	ThermoHygrometer	Traceable	L202	2/17/2020	2/17/2021
3	Steel Ruler	Tempered	N721	7/11/2019	7/11/2022
4	Digital Power Meter	WT1600	E537	2/19/2020	2/19/2021
5	Current Transformer	411	A203	4/30/2020	4/30/2023

**REVISION HISTORY**

#	Revision Date	Updated By	Reviewed By	Description of Change
---	None	---	---	---
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