

# TIMILON CORPORATION

# TEST REPORT

**SCOPE OF WORK**

UV Performance Testing

**MODEL NUMBER**

ED327-0255

**PROJECT NUMBER**

G104499288

**REPORT NUMBER**

104499288CRT-001

**ISSUE DATE**

11/16/2020

**REVISED DATE**

None

**TEST DATES**

November 12, 2020 to November 13, 2020

**DOCUMENT CONTROL NUMBER**

RTTDS-R-AMER-Test-3407

© 2017 INTERTEK



**REPORT NUMBER**

104499288CRT-001

**MODEL NUMBER(s)**

ED327-0255

**REPORT RENDERED TO:**

TIMILON CORPORATION  
24301 WALDON CENTER DRIVE, SUITE 101  
BONITA SPRINGS, FL 34134  
USA

**AUTHORIZATION**

The testing performed was authorized by signed quote number Qu-01122531-3.

**TEST STANDARDS**

IESNA LM-9-2009: Electrical and Photometric Measurements Of Fluorescent Lamps

IESNA LM-41-2014: Photometric Testing of Indoor Fluorescent Luminaires

IESNA LM-58 - 2013: Spectroradiometric Measurement Methods for Light Sources

In Charge of Testing:



Kristie Ray  
Team Lead, Engineering  
Lighting Division

Reviewer:



Ryan Siddon  
Manager, Operations & Engineering  
Lighting Division

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

**SUMMARY**

**REPORT NO. 104499288CRT-001**

PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	ED327-0255
Product Description:	Mobile Air System with UVC
Light Source:	Hg Lamp

TEST METHODS

**SEASONING IN SAMPLE ORIENTATION**

Lamps were not seasoned at Intertek's facility

**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.

**SAMPLE INFORMATION**

**REPORT NO. 104499288CRT-001**

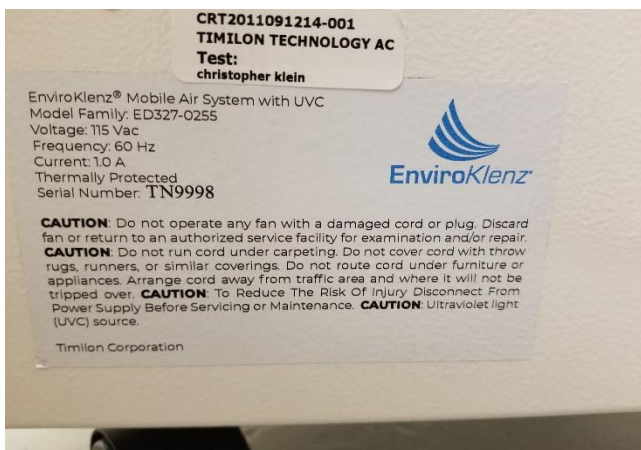
ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	CRT2011091214-001	ED327-0255	Mobile Air System with UVC	Production	11/9/2020
2	CRT2011091214-001-001	King Van Corp, 325126 Lutrace PL-S9W(2)	Hg Lamp	Production	11/9/2020
3	CRT2011091214-001-002	Philips, TUV PL-S 9W (2)	Hg Lamp	Production	11/9/2020

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	ED327-0255 with King Van Corp, 325126 Lutrace PL-S9W(2)	1,2
2	ED327-0255 with Philips, TUV PL-S 9W (2)	1,3

## SAMPLE PHOTOS - TESTED CONFIGURATIONS



**SPECTRORADIOMETER TESTING**

**REPORT NO. 104499288CRT-001**

Test Configuration	Tested Model No.	Pass/Fail/NA
1	ED327-0255 with King Van Corp, 325126 Lutrace PL-S9W(2)	NA

Product Description:	Mobile Air System with UVC
Light Source Model No.:	King Van Corp, 325126 Lutrace PL-S9W(2)
Driver/Ballast Model No.:	EnviroKlenz Air System Plus (utilizing ballast SP79P/AV1)
Light Source:	Hg Lamp

**RADIOMETRIC AND ELECTRICAL MEASUREMENTS**

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ( )
Horizontal	120.08	860.3	98.61	0.955

Test Distance (cm)	Summated Wavelength Range (nm)
50.00	252-258

Point of Measurement
Approximately the center of the aperture - levelled at 0H,0V - Fixture was opened for lamp verification, not an enclosed fixture.

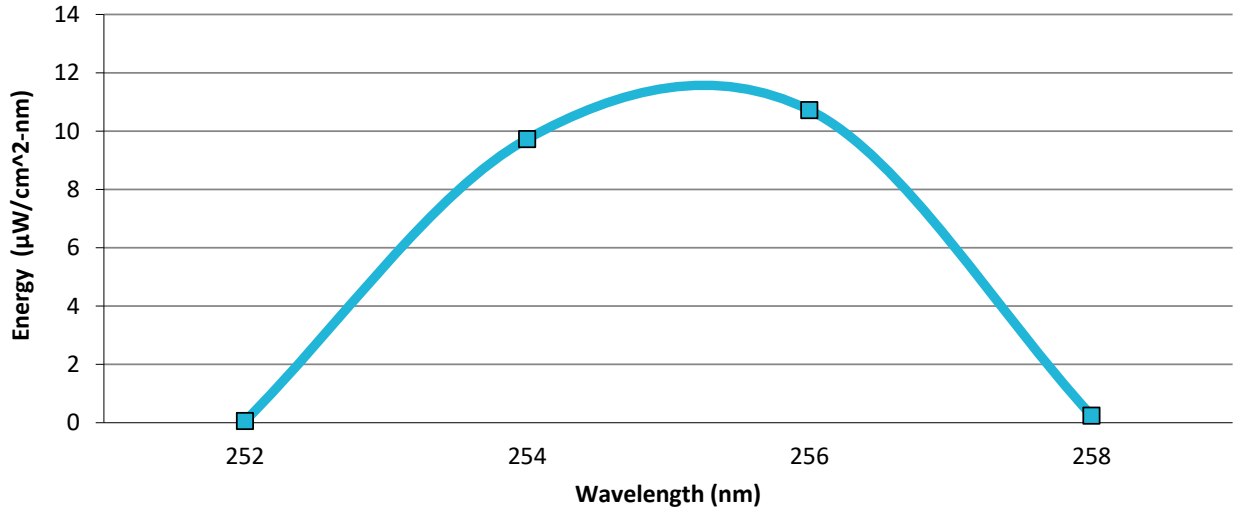
**SPECTRAL DISTRIBUTION OVER WAVELENGTHS**

nm	$\mu\text{W}/\text{cm}^2\text{-nm}$
252	0.1
254	9.7
256	10.7
258	0.2
<b>Sum</b>	41.5

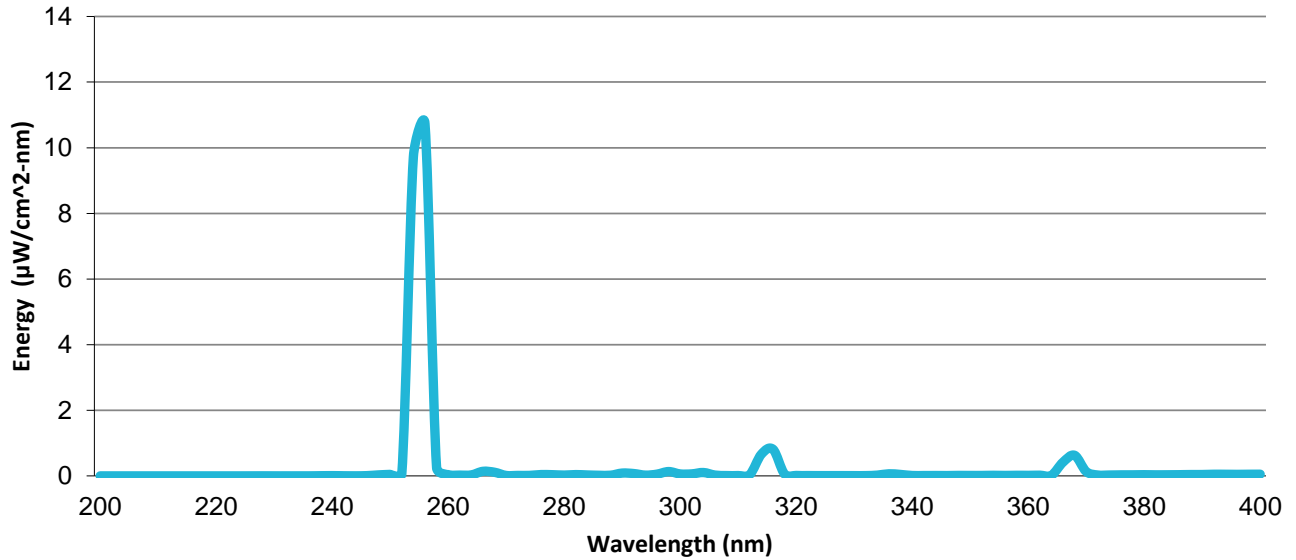
$\mu\text{W}/\text{cm}^2$

Irradiance Plots

**Irradiance (Peak Range)**



**Irradiance (200-400nm)**



## SPECTRORADIOMETER TESTING

REPORT NO. 104499288CRT-001

Test Configuration	Tested Model No.	Pass/Fail/NA
2	ED327-0255 with Philips, TUV PL-S 9W (2)	NA

Product Description:	Mobile Air System with UVC
Light Source Model No.:	Philips, TUV PL-S 9W (2)
Driver/Ballast Model No.:	EnviroKlenz Air System Plus (utilizing ballast SP79P/AV1)
Light Source:	Hg Lamp

## RADIOMETRIC AND ELECTRICAL MEASUREMENTS

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ( )
Horizontal	120.09	853.9	97.76	0.953

Test Distance (cm)	Summated Wavelength Range (nm)
50.00	252-258

Point of Measurement
Approximately the center of the aperture - levelled at 0H,0V - Fixture was opened for lamp verification, not an enclosed fixture.

## SPECTRAL DISTRIBUTION OVER WAVELENGTHS

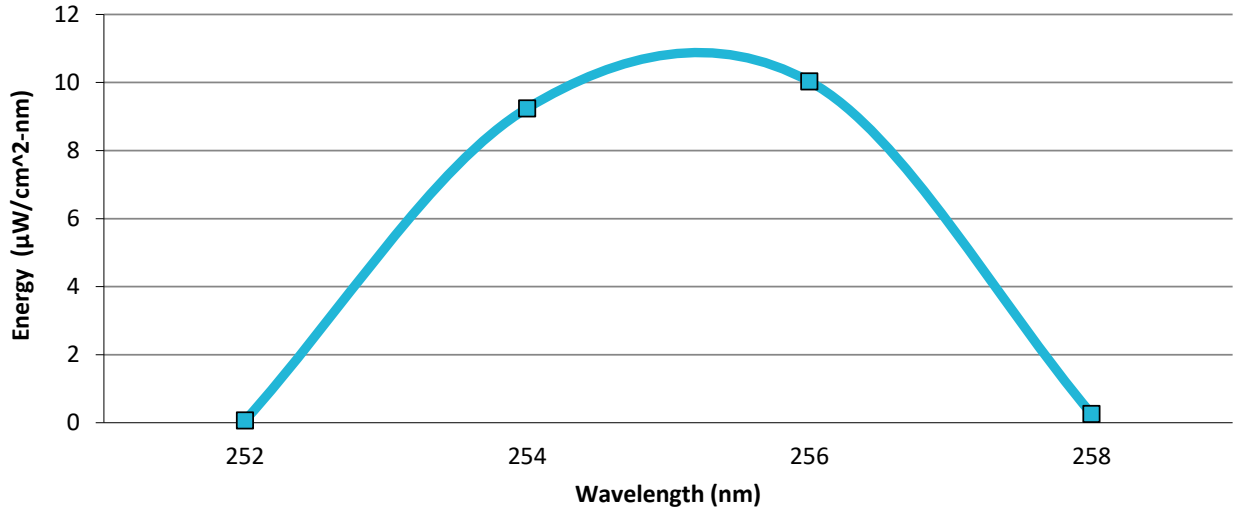
nm	$\mu\text{W}/\text{cm}^2\text{-nm}$
252	0.1
254	9.2
256	10.0
258	0.3
<b>Sum</b>	39.2

$\mu\text{W}/\text{cm}^2$

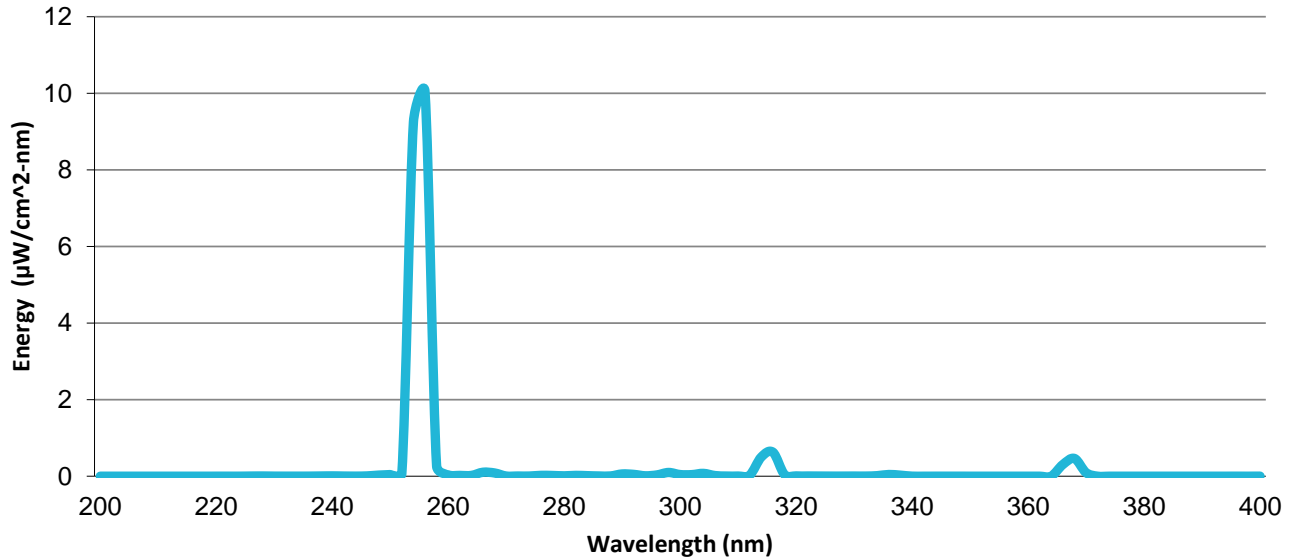


Irradiance Plots

**Irradiance (Peak Range)**



**Irradiance (200-400nm)**



**EQUIPMENT LIST**

**REPORT NO. 104499288CRT-001**

#	Equipment	Model No	Control No.	Last Cal	Cal Due
1	Spectroradiometer	OL 750	E288	10/20/2020	11/20/2020
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	---	---	---
---	---	---	---	---
---	---	---	---	---