



Realizing the Potential of GUV: Perspectives from SSL Technology Development

2021 DOE-IES Lighting R&D Workshop

Alex Baker MSc, LC, IES
Manager of Government Affairs and Public Policy
Illuminating Engineering Society



Our Presenters



Alex Baker



Kyung Lee



Dr. David Sliney



Dr. Cameron Miller



Ruth Taylor



Dr. Brian Walker



About the Illuminating Engineering Society

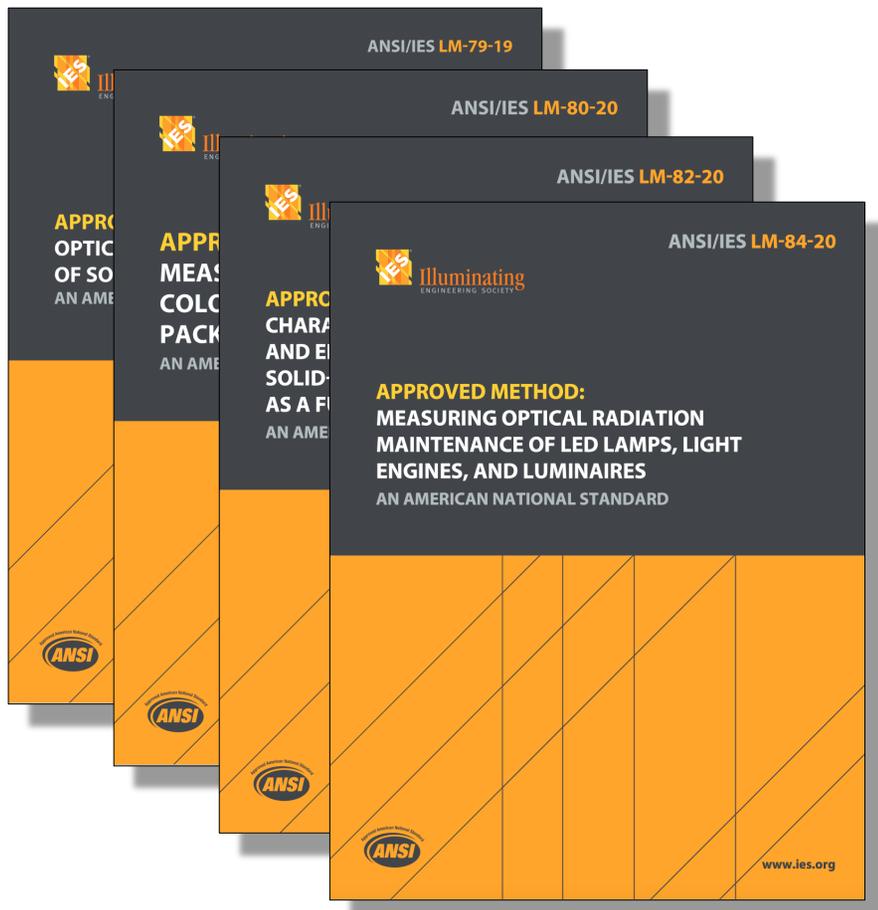


Illuminating
ENGINEERING SOCIETY

- Founded 1906
- An accredited Standards Development Organization (SDO) under American National Standards Institute (ANSI) approved procedures
- Publisher of American National Standards (ANS)
 - Methods of Measurement
 - Recommended Practices
 - Design Guides
 - Technical Memoranda
- Many IES standards incorporated by reference into federal energy regulations
- Some standards serve as *de facto* international standards



IES Standards Supporting Solid-State Lighting





**FANTASTIC Germicidal
Ultraviolet Products!**



SINCE 1828

GAMES | BROWSE THESAURUS | WORD OF THE DAY | WORDS AT PLAY

fantastic

Dictionary

Thesaurus

fantastic adjective



fan·tas·tic | \ fan-'ta-stik , fən-\

variants: *or less commonly* **fantastical** \ fan-'ta-sti-kəl  \

Definition of *fantastic* (Entry 1 of 2)

- 1 **a** : based on fantasy (see [FANTASY](#) entry 1 sense 2) : not real
- b** : conceived or seemingly conceived by unrestrained fancy
// fantastic new space and nuclear weapons
— Jack Raymond
- c** : so extreme as to challenge belief : [UNBELIEVABLE](#)
// a fantastic industrial complex of steel, coal, machine tools, and other heavy industries
— M. S. Handler
broadly : exceedingly large or great
// spent fantastic sums on his library
- 2 : marked by extravagant fantasy or extreme individuality : [ECCENTRIC](#)
// fantastic works of art
- 3 **fantastic** : [EXCELLENT](#), [SUPERLATIVE](#)
// a fantastic meal



Ultraviolet rays can cause burns to the eyes and skin. When the product starts, people and animals plant must leave the scene to avoid direct view UV rays! After use the end,it is recommended to ventilate for 30-45 minutes!



Roll over image to zoom in

UV-C Quartz Light Bulb with Ozone 25w UV-C Lamp 110 Volt E26/E27 Remove Odor Cleans Air

★★★★★ 11 ratings

21% off Lowest price in 30 days

Price: \$19.98

Prime Price: **\$15.88** ✓prime & FREE Returns

You Save: **\$4.10 (21%)** as a Prime member

Get \$125 off: Pay \$0.00 upon approval for the **Amazon Business Prime Card**. Terms apply.

Returnable until Jan 31, 2021

Eligible for **amazon smile** donation.

Size: **25W UVC with Ozone Bulb**

- Doublesterilize, uv-c and ozone, which can avoid the defect of single Sterilization.(Ozone itself has a unbearable smell, after use need wait a long time 30-50 minutes to let it self-decomposition into Oxygen)2.If you need uv-c dedicated timing Lamp Base please search ASIN:B08GPHB38N
- Can work in any regular screw-in socket, no special connections required.
- Used for family sanitizandDeodorizer,bathroom,bedroom, parlor, garage,basement , baby room, kitchen, dog/chicken house,etc...
- 8000hr long lifespan, each bulb passed through 2 inspection processes,Do our best to provide customers with efficient and safe products.
- We vouch for uv-c bulb's efficiency and durability. In the unlikely event you are dissatisfied with your purchase, you are free to return it to us within the first 90 days and receive a FULL refund. UL Certification

› See more product details

Report incorrect product information.

\$15.88

✓prime & FREE Returns

FREE delivery: **Tuesday, Nov 17**

Order within 8 hrs and 23 mins

Details

In Stock.

Qty: 1

Add to Cart

Buy Now

Secure transaction

Ships from Amazon

Sold by heshanguanlingkeji

Add gift options

Deliver to Alex

Add to List

Share

Have one to sell?

Sell on Amazon

Product description

Size: **25W UVC with Ozone Bulb**

Function

- 1.Application: can use for bedroom, quilt, pillow, bath towel, bathroom, toilet, kitchen, HVAC duct, etc.
- 2.clean: dirty air is the chief culprit in causing discomfort to the human body, it is very necessary to use this UV-C bulb twice a week.

Watt: 25W

Voltage:110 volts

Wavelength: 185nm bulb

Package Includes

1 x 25W Uv-C & Ozone Bulb

1 x Operation Manual

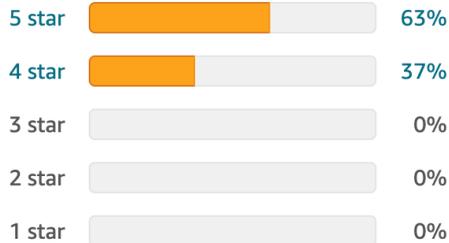
The Warning when use this bulb

Don't look at the working bulb. People/pet/plant can't be exposed to the Uv-C light, must left room when lamp work. after turn off light, keep room ventilating or waiting 30-50 minutes.

Customer reviews

★★★★☆ 4.6 out of 5

11 global ratings



How are ratings calculated?

By feature

Thickness ★★★★☆ 4.0

Warmth ★★★★☆ 3.6

Review this product

Share your thoughts with other customers

Write a customer review

Top reviews

Top reviews from the United States



TNT

★★★★☆ **Too Strong Oder**

Reviewed in the United States on November 5, 2020

Size: 25W UVC with Ozone Bulb | [Verified Purchase](#) | [Early Reviewer Rewards](#) (What's this?)

It works but maybe too well because the ozone smell after using this lamp is too strong to bear! Smell stays for days! Not sure it is safe!

One person found this helpful

Helpful

Comment

Report abuse



RC, Passaic County, NJ

★★★★★ **Great sanitizer**

Reviewed in the United States on November 8, 2020

Size: 25W UVC with Ozone Bulb | [Verified Purchase](#) | [Early Reviewer Rewards](#) (What's this?)

If you put this in a confined space or box, it is very effective at sanitizing. The ice light kills bacteria and it creates a good amount of ozone which also kills everything.

Helpful

Comment

Report abuse



Ketan

★★★★☆ **Works as advertised**

Reviewed in the United States on November 7, 2020

Size: 25W UVC with Ozone Bulb | [Verified Purchase](#) | [Early Reviewer Rewards](#) (What's this?)

Works as advertised, when you keep it on for 30 mins the room smells like something is burned and a pungent smell. In apartment setup where you cannot open a window it may take up to 2 hrs to get rid of the smell.

Helpful

Comment

Report abuse

Screenshot



Matthew Cramer

★★★★★ **Good UV light disinfectant**

Reviewed in the United States on November 5, 2020

Size: 25W UVC with Ozone Bulb | [Verified Purchase](#) | [Early Reviewer Rewards](#) [\(What's this?\)](#)

Disinfects well. Get a timer base for it

Helpful

| Comment

| Report abuse



NixBoox

★★★★☆ **Do not touch this bulb with your bare hands!**

Reviewed in the United States on November 8, 2020

Size: 25W UVC with Ozone Bulb | [Verified Purchase](#) | [Early Reviewer Rewards](#) [\(What's this?\)](#)

This is an UV-C sterilising, ozone producing bulb. It has no relevance to sheerness, warmth, or thickness, it's not a sweater... it is a bulb that produces a small amount of light in an extraordinarily large format. I put it into a cloche lamp by my front door and run it for several minutes whenever I open or close the door. Like all UV-C bulbs you do not want to spend time too close to this bulb. Do not touch it with your bare hands, do not touch it when it's on.

I originally bought this because I was going to build a candy bowl for Halloween with the bulb in the middle so I could put it on the porch and the kids could help themselves and the sterilising bulb would keep the children safe...but then I learned that these lamps are actually dangerous to touch or be near or look at, so my plan changed.

One person found this helpful

Helpful

| Comment

| Report abuse



Sunpav

★★★★★ **Removing the virus very effectively**

Reviewed in the United States on November 11, 2020

Size: 25W UVC with Ozone Bulb | [Verified Purchase](#)

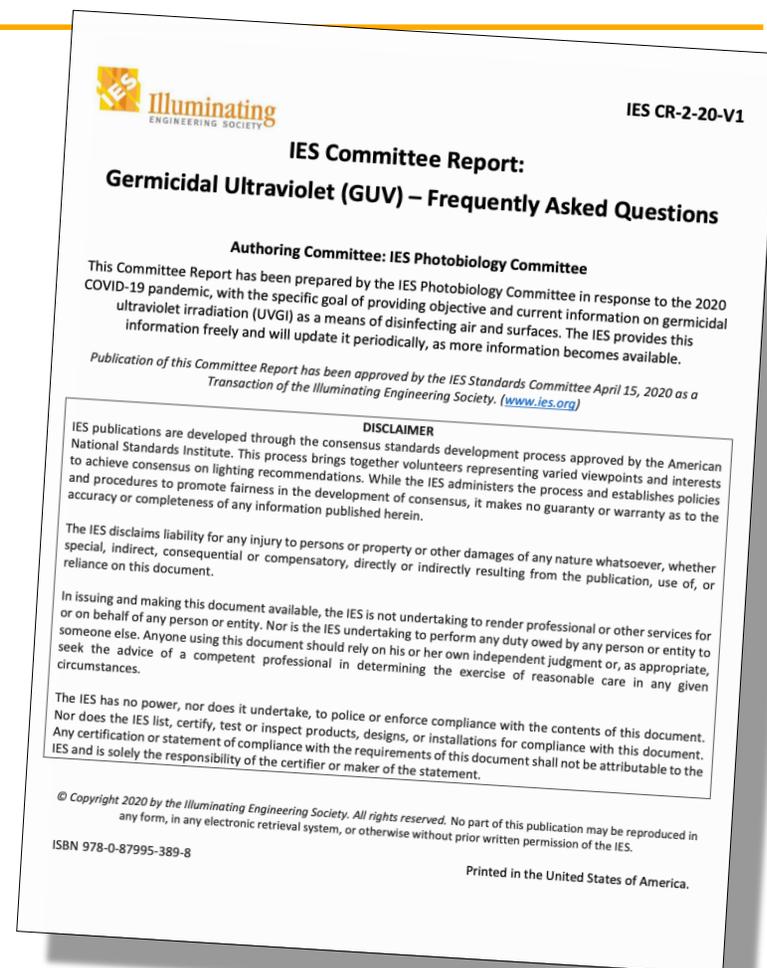
I bought this lightbulb because a person in my building stinks and when I go downstairs to the basement I smell it. I installed the light bulb and ran it and I don't smell the stink and I know what ever virus v there is gone

Screenshot



IES Support for the Germicidal Ultraviolet Market

- IES Photobiology Committee
 - April 2020: Published Committee Report CR-2-20
 - In development: BSR/IES RP-xx - Recommended Practice: Ultraviolet Germicidal Irradiation (UVGI)
- IES Testing Procedures Committee
 - BSR/IES LM-LPM-UV Approved Method: Electrical and Optical Measurements of Low-Pressure Mercury Discharge Lamps
 - BSR/IES LM-LED-UV - Approved Method: Optical and Electrical Measurements of Ultraviolet LED Sources
- IES partnership with the International Ultraviolet Association





Contact Info

Alex Baker MSc, LC, IES

Manager of Government Affairs & Public Policy

abaker@ies.org



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