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**Photobiological  
Safety Of  
Lamps And  
Lamp Systems  
Of Lamps  
And Lamp  
Systems**

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safety of lamps  
and lamp  
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safety of lamps

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computer. **IEC**

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safety of lamps  
and lamp systems**

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said, the IEC

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safety of lamps  
and lamp systems  
is universally  
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*Measurements for  
and  
Interpretation  
of the*

*Page 6/54*

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*Photobiological  
Safety Standard  
for Lighting IEC  
62471 Gooch*

\u0026 Housego  
Instruments: IEC  
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Photobiological  
Hazard

Measurements VSL  
Talks:

Radiometric  
traceability for  
photobiological

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~~safety~~ CIE

Position

Statement on the  
Use of UV

Radiation to

Manage Risks of  
COVID-19

Transmission The  
Importance of  
IEC

International

Standards NACTUS

Optical System

Electrical



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*Safety Testing*

*For Medical*

*Devices Meet*

*Doug Learn,*

*Director of*

*Photobiology and*

*Cellular*

*Therapeutic*

*Safety at*

*Charles River*

*How Does a*

*Monochromator*

*Work? IEC*

*Standard ||*

*Page 9/54*

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*International  
Electrical  
Standard TÜV SÜD  
Webinar |*

**Updating  
Compliance with  
IEC 62368-1**

*Simon Vassall's  
\"Brilliant\"  
rooftop sketch*

**IF, Rudyard  
Kipling's poem,  
recited by Sir  
Michael Caine**

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brilliant

skincare fake vs

ori!!!!

Retrovisor P9S2

Android 10'' Gps

2 camaras Wifi

Bluetooth How to

read an

electrical

diagram Lesson

#1 How to

Measure LED

Lights LEDVANCE:

Guiding lights

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Photobiological

*What it's like*

*working in our*

*Product*

Lamp Systems  
Management?

~~Toward an~~

~~Optimal Spectral~~

~~Quality for~~

~~Plant Growth and~~

~~Development VSL:~~

number one

partner for

bridges in Asia

~~Standard IEC~~

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~~61439 Software~~

~~Development~~

~~According to IEC~~

~~62304 A Real~~

~~World Systems~~

~~Perspective~~

~~Sharpen Your~~

~~Skills 2020~~

~~Clinical~~

~~Implications of~~

~~Ocular~~

~~Phototoxicity~~

~~ISA 18.2,~~

~~IEC 62682 Alarm~~

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~~Reports~~ **UV Light  
Measurement in a  
Goniospectromete  
r - 3D output**

~~Lumen~~ **Lamp Systems**

~~Technologies:~~

~~Andrew Dugan,~~

~~CTO~~ *Photobiology*

*Simplified with*

*Dr Bruce Bugbee*

Setting up

Medical Device

Software

Development

*Page 14/54*

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Photobiological

Compliance with

IEC 62304 and

ISO 14971 ~~fee~~

~~62471~~ Lamp Systems

~~Photobiological~~

~~Safety Of~~

IEC 62471

Photobiological

Safety of Lamps

and Lamp

Systems. With

reference to EN

62471:2008

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Sources of optical radiation are classified into risk groups subject to their potential photobiological hazard. This classification takes place through a risk assessment, which is



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conducted on the  
either  
individual  
components or  
the final  
product based on  
information  
obtained from  
the  
manufacturer.

~~IEC 62471~~

~~Photobiological~~

~~Safety of Lamps~~

*Page 17/54*

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~~and Lamp Systems~~

Photobiological

safety of lamps

and lamp

systems. Gives

guidance for

evaluating the

photobiological

safety of lamps

and lamp systems

including

luminaires.

Specifically it

specifies the

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Photobiological  
Safety Of  
Lamps And  
Lamp Systems

exposure limits,  
reference  
measurement  
technique and  
classification  
scheme for the  
evaluation and  
control of  
photobiological  
hazards from all  
electrically  
powered  
incoherent  
broadband

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Sources of  
optical  
radiation,  
including LEDs  
but excluding  
lasers, in the  
wavelength range  
from 200 nm  
through 3000 nm.

~~IEC 62471 Ed.~~

~~1.0 b:2006~~

~~Photobiological  
safety of lamps~~

*Page 20/54*

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Photobiological

Abstract. Gives guidance for evaluating the photobiological safety of lamps and lamp systems including luminaires.

Specifically it specifies the exposure limits, reference measurement

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technique and  
classification  
scheme for the  
evaluation and  
control of  
photobiological  
hazards from all  
electrically  
powered  
incoherent  
broadband  
sources of  
optical  
radiation,

*Page 22/54*

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including LEDs  
but excluding  
lasers, in the  
wavelength range  
from 200 nm  
through 3000 nm.

~~IEC 62471:2006~~ |

~~IEC Webstore~~

This document is  
referenced by:

AS/NZS IEC

62471.2 -

Photobiological

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safety of lamps  
and lamp systems  
Part 2: Guidance  
on manufacturing  
requirements  
relating to non-  
laser optical  
radiation  
safety.

Published by SNZ  
on March 12,  
2012. This  
technical report  
provides the



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Photobiological  
optical  
radiation safety  
requirements of  
non-laser  
products,  
serving as a  
guide for  
development of  
safety  
requirements in  
vertical product  
standards and...

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~~IEC 62471~~

~~Photobiological  
Safety Of  
safety of lamps  
Lamps And  
and lamp ...~~

Photobiological  
Safety of Lamps  
and Lamp Systems  
(IEC/EN 62471)  
for LEDs.

Evaluating the  
photobiological  
safety of lamps  
and lamp  
systems,

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including LEDs,  
to IEC/EN 62471  
is a legal  
requirement for  
lighting  
products sold in  
Europe.

Photobiological  
testing relates  
to the optical  
radiation  
effects of LED  
and traditional  
lighting on

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human eyes. As LEDs become widely used, assessment of the unique “blue light” hazard is critical.

~~Photobiological  
Safety of Lamps  
and Lamp Systems  
(IEC/EN ...~~

Test Report  
issued under the

*Page 28/54*

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responsibility

of: TEST REPORT

IEC 62471

Photobiological

safety of lamps

and lamp systems

Report Reference

No. . . . . :

3182062.55A Date

of issue . . . . . :

2016-02-23

~~IEC 62471~~

~~Photobiological~~

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~~safety of lamps  
and lamp systems~~

As of September  
1, 2009, IEC/EN

62471, **Systems**

Photobiological  
Safety of Lamps  
and Lamp

Systems, was  
fully applied to  
all LED lighting  
products.

Standard Scope

IEC/EN 62471

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62471

gives guidance  
for evaluating  
the  
photobiological  
safety of lamps  
and lamp systems  
including  
luminaries.

~~IEC 62471 for  
LED Lighting  
Products | Smart  
Vision Lights~~  
in the area of

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photobiological

safety

requirements

specific to LEDs

ultimately led

to the

development of

IEC 62471,

Photobiological

Safety of Lamps

and Lamp

Systems. First

published in

2006, IEC 62471



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is mostly based  
on the  
photobiological  
safety

requirements

found in

ANSI/IESNA

RP-27, but

reflects some

changes in the

weighting

functions

~~Assessing the~~

*Page 33/54*

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~~Photobiological~~

~~Safety of LEDs~~

It includes  
manufacturing

~~Lamp Systems~~  
requirements

that may be  
required as a  
result of an  
image projector  
system being  
assigned to a  
particular risk  
group.

Therefore, this

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part of IEC

62471 provides

safety

requirements for

lamp systems

that are

intended to

produce

projected

visible optical

radiation, such

as theatre

projectors, data

projectors and

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home-use biological  
projectors.

Safety Of  
Lamps And  
~~IEC 62471-5:2015~~

~~IEC Webstore~~

The

IEC62471:2006

standard

“Photobiological

Safety of Lamps

and Lamp

Systems”

provides

guidance for the

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evaluation of  
the  
photobiological  
safety of all el  
ectrically-  
powered, non-  
laser sources of  
optical  
radiation  
emitting in the  
spectral range  
200-3000 nm,  
whether or not  
the emission of

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light is the  
primary purpose  
of the product.

~~LED-based  
products must  
meet  
photobiological  
safety ...~~

What is BS EN  
62471:2008? BS  
EN 62471 gives  
best-practice  
recommendations

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to test the photobiological safety of electric lamps and lighting systems, including luminaires. This standard specifies exposure limits, measurement techniques and classification

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systems to  
control  
photobiological  
and light  
hazards.

~~BS EN 62471:2008~~

~~Photobiological  
safety of lamps  
and lamp ...~~

The primary aim  
of the  
photobiological  
safety standards



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is to protect  
the user from  
the harmful  
effects caused  
by optical  
radiations  
emitted by  
lighting devices  
installed in the  
rooms. Within  
the European  
Union, the  
standards in the  
field of

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photobiological  
safety are  
IEC/EN 62471 and  
the more recent  
Technical Report  
IEC/TR 62778.

~~UL &~~

~~Photobiological  
Safety~~

Standard: IEC/EN  
62471 As LEDs  
become widely  
used in many LED

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lights, assessment of  
the unique “Blue  
Light” hazard is  
critical. As of  
September 1,  
2009, IEC/EN  
62471,  
Photobiological  
Safety of Lamps  
and Lamp  
Systems, was  
fully applied to  
all LED lighting

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products. biological

Safety Of

~~IEC/EN 62471 for  
LED Lighting~~

~~Products Systems~~

As a result, in  
late 2008 a

newer standard,  
referred to as  
IEC 62471-2006

(plus the  
supporting  
ANSI/IESNA RP-27  
testing

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methodology),

was adopted for  
conventional, or  
lighting class,

LEDs. The

detailed

photobiological

... 2 IEC 62471

Photobiological

safety of lamps  
and lamp systems

- First edition,  
2006-2007. 5

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~~Eye Safety with  
LED Components  
Cree Inc.~~

IEC 62471:

“Photobiological  
safety of lamps  
and lamp  
systems” ???LED?  
??????????LED???

???. IEC/TR  
62471-2:

“Photobiological  
safety of lamps  
and lamp systems

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Part 2: Photobiological

Guidance on  
manufacturing  
requirements

relating to non-  
laser optical  
radiation  
safety”

~~LED????????IEC?~~

~~? IEC 62471 — UL~~

~~—Consumer~~

~~Technology ...~~

The text of the

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International

Standard IEC

62471:2006,

prepared by IEC

TC 76 "Optical

radiation safety

and laser

equipment",

together with

the common

modifications

prepared by the

Technical

Committee



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CENELEC TC 76,  
Optical  
radiation safety  
and laser  
equipment, was  
submitted to the  
formal vote and  
was approved by  
CENELEC as EN  
62471 on  
2008-09-01.

~~EN 62471:2008~~

~~Photobiological~~

*Page 49/54*

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~~safety of lamps  
and lamp . . .~~

To allow for  
occupancy during  
use, Current  
products comply  
with IEC 62471 -  
Photobiological  
Safety of Lamps  
and Lamp Systems  
standards and  
American  
Conference of  
Governmental

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Industrial ...

Safety Of

~~Testing Shows~~

~~365DisInFx™ UVC~~

~~Technology from~~

~~GE Current ...~~

When installed  
and used

correctly, LPU  
devices emit UVC  
at levels that  
are below both  
the

International

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Electrotechnical  
Commission (IEC  
(News - Alert))  
62471

Photobiological  
Safety for Lamps  
and Lamp Systems  
standard and the  
American  
Conference of  
Governmental  
Industrial  
Hygienists  
(ACGIH®) TLVs®

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guidelines for  
exposure up to  
24 hours a day.

~~Testing Shows  
365DisInFx™ UVC  
Technology from  
GE Current ...~~

When installed  
and used  
correctly, LPU  
devices emit UVC  
at levels that  
are below both

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the Photobiological

International

Electrotechnical

Commission (IEC)

62471 Systems

Photobiological

Safety for Lamps

and Lamp Systems

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