

# Lighting Systems



**REGIOLUX**

# Lighting Systems

functional - effective - efficient

## Exclusion of Liability

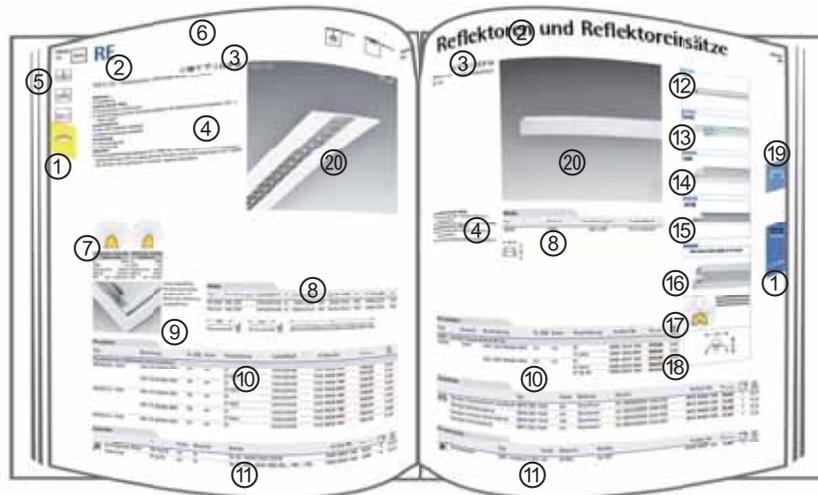
Illustrations, dimensions and weights in our catalogues, price lists and quotations are non-binding. Subject to technical changes, errors and color deviations. All luminaires have been designed for 230V 50Hz mains connection and ambient conditions according to DIN EN 60598 unless otherwise stated, and are supplied without lamps unless otherwise stated. Most of the indications with regard to certifications are presented in our catalogue in a general form. Verification with regard to products can be easily carried out on our website.

Because of the dynamics in the technical development especially in the field of LED modules and their drivers, the information in this paper can only be a snapshot of the current state and are therefore legally not binding. Please refer to our web site for current product specifications.

We point out that the orderer recognises our delivery and payment conditions unless he/she objects in writing when sending his/her order.

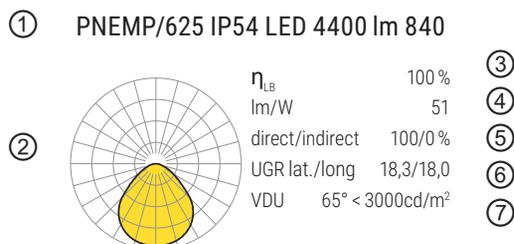


# Description of page layout



- ① Product group
- ② Luminaire family, type
- ③ Certification: Overview and explanation in Technical information chapter 8: 8.6 Certification, insulation class and protection rating
- ④ Description with regard to lighting technology, housing, miscellaneous
- ⑤ Indications with regard to ceiling systems
- ⑥ Reference to accessories pages and products in other product groups
- ⑦ Light distribution curve (LVK) with data with regard to lighting technology of the reference product.  
Explanations in the following area Explanations
- ⑧ Dimensional table and sectional drawings: Explanations of the variables in the following area Explanations
- ⑨ Detail image with explanation
- ⑩ Product table: Explanations of the abbreviations in the following area Explanations
- ⑪ Table with spare parts / accessories (if available): Explanations of the abbreviations in the following area Explanations
- ⑫ Combination quick-fit mounting system: Component mounting rail
- ⑬ Combination quick-fit mounting system: Component device mount
- ⑭ Combination quick-fit mounting system: Component light direction
- ⑮ Combination quick-fit mounting system: Component light direction insert
- ⑯ Quick-fit mounting system: Combination
- ⑰ Quick-fit mounting system: Light distribution curve of the combination, explanations in the following area Explanations
- ⑱ Quick-fit mounting system: Dimensioned drawing of the combination
- ⑲ Indication to the product area mounting rail / device mount / light direction
- ⑳ Product image with icons and indication for functions and features

## Explanation of lighting technological data



### 1. Configuration

Possible deviations of luminous flux between magnetic ballasts (Llb) and electronic ballasts (ECG) are not considered.

### 2. Luminous intensity distribution

Luminous intensity distribution curves shown in the catalogue are represented according to DIN 5032. Only both primary planes are displayed: 0°/180° planes (at right angles to luminaire axis) as a continuous line and 90°/270° (parallel to luminaire axis) as a dotted line. Curves are scaled to represent 1000 lumens of lamp luminous flux.

### 3. Light output ratios $\eta_{LB}$

Light output ratios specified for each luminaire are calculated from the relation of luminous flux  $\Phi_L(\tau)$  emitted from the luminaire with an ambient luminaire temperature  $\tau_a = 25^\circ \text{C}$  and further standardised conditions to the sum of measured luminous flux of the lamps with open distribution transferred individually to the luminaire ballast. In the case of LED luminaires, the principle of absolute photometry is increasingly applied. In this case, the light output ratio is indicated with 100%. Additionally, the luminous flux is indicated in the form of the measured luminous flux of the luminaire.

### 4. Luminous efficiency

The luminous efficiency is the luminous flux of a bulb or luminaire related to its electrical power consumption. In the case of LED luminaires presented according to the principle of absolute photometry (light output ratio 100%), the indication refers to the lumen output of the luminaire which is described by the ratio between luminous flux of the luminaire and system performance of the luminaire.

### 5. Direct and indirect light components

For evaluating the efficiency and lighting effect of a lighting system within a room, specification of the direct and indirect beam components is helpful.

### 6. Glare reduction according to UGR method

According to DIN EN 12464-1, not only is reflected glare considered but also direct glare within a specific room. As a standard evaluation system the UGR (Unified Glare Rating) method was introduced in Europe as part of the DIN EN 12464-1 standard. Details concerning the UGR method are described in the CIE 117 publication. The UGR values (lat. and long) of a lighting installation, determined according a table for the position of a standard viewer, are not permitted to exceed the value specified by the standard. In order to compare the direct glare of various luminaires, UGR values of a number of manufacturers are specified with reference to a so-called standard room. Please note that a correct comparison is only possible if all room conditions are identical. In addition it must be noted that UGR values for a real installation may significantly differ to those of the standard room.

Values given are based upon the following definitions.

Room dimensions:

Distance of eye level to luminaire level: H

Room width X = 4H

Room length Y = 8H

Standard reflection factors (0,7 ceiling; 0,5 walls; 0,2 floor)

Luminaire arrangement parallel to Y axis Luminaire distances:

Distance of luminaire to luminaire (spacing) S = 0,25H

Distance of luminaire to wall  $\frac{1}{2} S = 0,125H$

## Explanation of lighting technological data

### 7. Suitability for VDU workstations

Here, the suitability of luminaires for VDU workstations according to DIN EN 12464-1 is specified. The degree number means that the luminance in all luminaire planes beyond that angle does not exceed certain limitation values. Depending on screen quality and screen visualisation, the norm specifies different limitation values. In case of a positive display on screens with an own luminance (< 200 cd/m<sup>2</sup>), a maximum of 1500 cd/m<sup>2</sup> and in case of screens with a high luminance (> 200 cd/m<sup>2</sup>), a maximum of 3000 cd/m<sup>2</sup> is permissible.

## Control gear

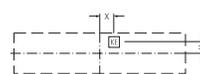
Abbr.	Description
ECG	Electronic ballast
Llb	Low-loss ballast
ind	Inductive, must be compensated on-site
multi	Multiwatt T5
ED	Electronic driver, not dimmable
EDM	Electronic driver Multi, not dimmable (8 or 16 adjustable lighting levels)
DALI	Electronic driver, DALI, dimmable
DALI DT8	Electronic driver, DALI, dimmable, change of light color (Tunable white)
LC.	Device with integrated LC components of special type
M.	Master unit Typ 1-N
S.	Sensor unit Typ 1-N
NL-B1, NL-B3	Emergency light single battery; 1=1h, 3=3h

# Explanations

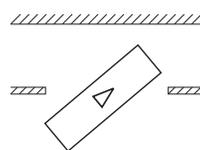
## Definition of measurement table variables

Abbr.	Description
A	Distance between the individual luminaires
A1	Fixing distance in case of single mounting
A2	Fixing distance for first or last luminaire in case of light run mounting
A3	Fixing distance for the middle luminaires or between the luminaires in case of light run mounting
A4	Fixing distance (width)
B	Width
D	Diameter
DA	Diameter of cut for recessed luminaires
DA <sub>b</sub>	Width of cut for recessed luminaires
DA <sub>L</sub>	Length of cut for recessed luminaires
DS min	Minimum ceiling thickness with suspended ceiling
DS max	Maximum ceiling thickness with suspended ceiling
Db	Sensor detection diameter
Dr	Sensor detection diameter ideal movement towards the sensor
Ds	Sensor detection diameter seated activity
Dt	Sensor detection diameter tangential movement parallel towards the sensor
Et	Mounting depth (necessary depth for luminaire mounting)
Et min	Minimum mounting depth (necessary depth for luminaire mounting during ceiling construction)
FB	Width of luminaire groundplate
FD	Diameter of luminaire groundplate
FL	Length of luminaire groundplate
H	Height
HS	Installation height of sensor
KB	Width of luminaire head or ballast box
KD	Diameter of luminaire head or ballast box
KE	Cable infeed
KH	Height of luminaire head or ballast box
KL	Length of luminaire head or ballast box
L	Length
L2	Additional length
MB	Modul (axes) width
ML	Modul (axes) length
P	Suspension length
Pmin	Minimum suspension length
Pmax	Maximum suspension length
P <sub>sys</sub>	Luminaire system performance
T	Depth
W	Wall distance
X	Distance from middle of the luminaire to the electrical feed in (X direction = length)
Y	Distance from middle of the luminaire to the electrical feed in (Y direction = width)

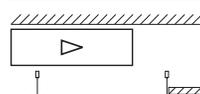
## Description of measurement table variables



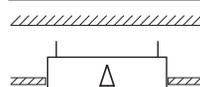
1. Positioning of electrical feed in.



2. Required installation depth "Et" for swivelling of luminaire in visible T rail constructions (lay-in luminaires). Required installation depth "Et" for swivelling luminaire and control gear (if applicable) through ceiling cut-out (clamp mounting).



3. Reduced installation depth "Et min" with aligning of luminaire above T rail construction (during ceiling construction).



4. Required installation depth "Et" for swivelling of mounting bracket (clamp mounting).

## Ceiling systems



Ceilings with visible T-rails



For concealed symmetrical rail constructions



For concealed asymmetrical rail constructions



For recessed ceilings



For panel ceilings, module 100, 150, 200

## Cross references



Reference accessories



Reference mounting rail installation



Reference mounting note



Reference product groups

## Icons / functions features



Configuraton with sensor available



Configuraton with emergency light unit available



Luminaires for HCL (human Centric Lighting)



Luminaires suitable for Advanced Services



Luminaires suitable for IoT (Internet of Things)



LED (included)



Beam angle

Materials	
Abbr.	Description
A03S-U	Recognised national cable type: measurement voltage 300 V to 300 V; Silicone rubber isolation material, heat-resistant to +180° C; Single-wire conductor, round
ABS	Acrylonitrile Butadiene Styrene Copolymerisate
Al	Aluminium
AlMgSi	Aluminium magnesium silicon (extruded section)
Cu	Copper
EPDM	Synthetic rubber
Glass	Glass
Glass matt	Matt glass
Glass (ESG)	Tempered single-pane safety glass
H03VV-F	Harmonised cable: measurement voltage 300 V to 300 V; Isolation material PVC, heat-resistant to +70° C; sheathing material PVC, heat-resistant to +70° C; fine-strand conductor, flexible
H05HH-F	Harmonised cable: measurement voltage 300 V to 500 V; Isolation material flat, divisible cable; sheathing material flat, divisible cable; fine-strand conductor, flexible
H05S-U	Harmonised cable: measurement voltage 300 V to 500 V; silicone rubber isolation material, heat-resistant to +180° C; single-wire conductor, round
H05V2-U	Harmonised cable: measurement voltage 300 V to 500 V; Isolation material PVC, heat-resistant to +90° C; single-wire conductor, round
H05VV-F	Harmonised cable: measurement voltage 300 V to 500 V; isolation material PVC, heat-resistant to +70° C; sheathing material PVC, heat-resistant to +70° C; fine-strand conductor, flexible
H07V2-U	Harmonised cable: measurement voltage 450 V to 750 V; isolation material PVC, heat-resistant to +90° C; single-wire conductor, round
Inox	Stainless steel
Inox V2A	Stainless steel (alloy type 1.4301 or X5CrNi18-10)
Inox V4A	Stainless steel (alloy type 1.4401 or X5CrNiMo17-12-2)
Mix	Diverse materials
PA	Polyamide
PC	Polycarbonate
PMMA	Polymethylmethacrylate (acrylic glass)
Polymer	plastic (not defined specifically)
Polymer clear	Plastic (crystal clear)
Reinforced polymer	Plastic (with admixture of reinforcing materials)
PS	Polystyrene
PVC	Polyvinyl chloride
St	Steel
StZn	Steel with zinc coating

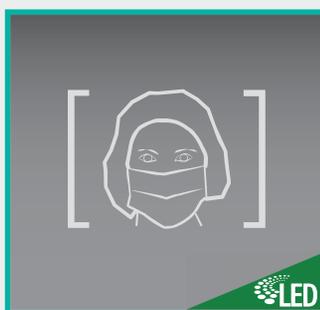
Colour code	
Abbr.	Colour
al	aluminium
aeH	aluminium high gloss
aes	aluminium matt gloss
aen	aluminium natural anodized
ap	aluminium plate finish
am	anthracite metallic
bl	blue
bl/cr	blue chrome
ce	cream
cr	chrome
eg	brushed stainless steel
ge	yellow
ge/cr	yellow chrome
ga	grey
gr	green
hg	light grey
hgl	high gloss
kg	pebble grey, RAL 7032
kgm	pebble grey metallic, RAL 7032
kl	clear
me	metallike
op	opal white
og	orange
ro	red
sw	black, RAL 9005
si	silver
sg	silver-grey, RAL 9006
tz	translucent
tp	transparent
vw	traffic white, RAL 9016
ws	white
wa	white-aluminium, RAL 9006



# Luminaires for special applications



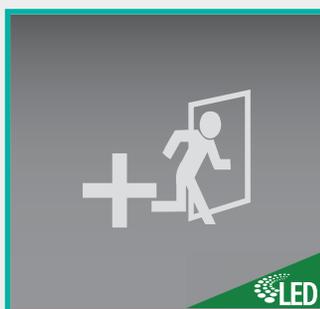
▶487  
▶ Human Centric Lighting



▶491  
▶ Clean room facilities



▶495  
▶ Beverage and food industry



▶499  
▶ Beverage and food industry





**Technik, die begeistert.  
Service, der ankommt.**



# Luminaires for Human Centric Lighting



## Suspended luminaires

alvia

▶ 14

visula

▶ 20



visula

▶ 70



## Recessed luminaires

teno

▶ 148

planara

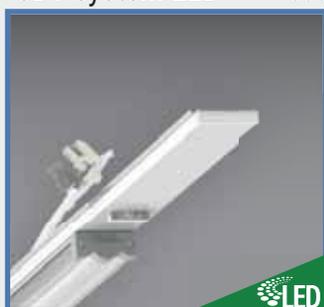
▶ 152



## Quick-fit mounting system

SDT system LED

▶ 330





# Light for Living

## Importance of daylight for people

The life of most living beings on the planet Earth has been determined by the day-night cycle for millions of years. The biological clock is deeply rooted in our subconscious. Even if humans were already able to create artificial light with fire 300,000 years ago, it did not become possible turning night into day with the distribution of electricity at the end of the 19th century. This period of time is far too

short to be reflected in human genes. Witnessing these Facts, it becomes apparent how straining our way of living must be for us - mainly in enclosed rooms - with only little or even no daylight. It is assumed that at least 20% to 30% of the people working in industrial countries suffer from recurring sleep disorders. The body's inner clock gets out of step.





Luminaires suitable for Human Centric Lighting are equipped with this symbol.

With today's technologies and knowledge it is possible to compensate for this handicap of static light in our surroundings. The lack of natural daylight can be compensated for by convergence of the artificial light to the course of daylight. Thus, the human biological clock will be synchronised again.

## Biological Clock

Life on Earth is also determined by the alternation of day and night. Many types of cells from species have developed some type of inner clock in the course of evolution. The brain synchronises this clock with the environment. Light is the pulse generator for this process.





# Luminaires for clean room facilities



Surface-mounted  
luminaires

protection IPA ▶ 74



Recessed luminaires

protection ▶ 168



# Application areas



Semiconductor technology



Biotechnology



Laboratories



Pharmaceutical industry



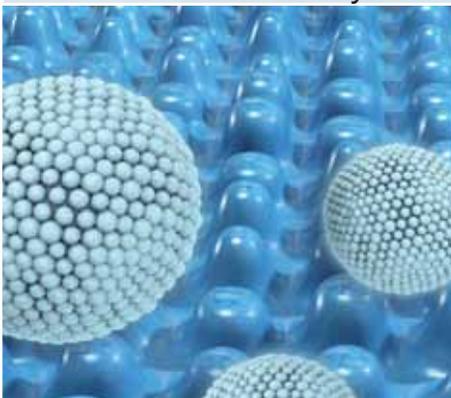
Cosmetics industry



Hospital & care



Food industry



Nanotechnology



Optical industry



Luminaires suitable for clean rooms (ISO1) are equipped with this symbol.

## Further information

in theme catalogue  
„Certified light  
for clean rooms“



Certified light  
for clean rooms

# Clean room classes

These days, clean rooms are defined using so-called cleanroom classes. The individual classes describe the maximum permissible concentration of airborne particles or germs and/or CFU (colony forming units), which must not be exceeded inside a clean room. It is pos-

sible to verify these classes today using standardized measuring procedures. This means air quality is a factor which documents the effects of measures intended to achieve compliance with air quality requirements at manufacturing facilities. TBH GmbH, Straubenhardt

## DIN EN ISO 14644-1

Class	Maximum number of particles					
	$\geq 0,1 \mu\text{m}^3$	$\geq 0,2 \mu\text{m}^3$	$\geq 0,3 \mu\text{m}^3$	$\geq 0,5 \mu\text{m}^3$	$\geq 1,0 \mu\text{m}^3$	$\geq 5,0 \mu\text{m}^3$
ISO 1	10	2				
ISO 2	100	24	10	4		
ISO 3	1.000	237	102	35	8	
ISO 4	10.000	2.370	1.020	352	83	
ISO 5	100.000	23.700	10.200	3.520	832	29
ISO 6	1.000.000	237.000	102.000	35.200	8.320	293
ISO 7				352.000	83.200	2.930
ISO 8				3.520.000	832.000	29.300
ISO 9				35.2000.000	8.320.000	293.000

## VDI 2083

Class	Maximum number of particles					
	$\geq 0,1 \mu\text{m}^3$	$\geq 0,2 \mu\text{m}^3$	$\geq 0,3 \mu\text{m}^3$	$\geq 0,5 \mu\text{m}^3$	$\geq 1,0 \mu\text{m}^3$	$\geq 5,0 \mu\text{m}^3$
0	150	33	14			
1	1.500	330	140	45		
2	15.000	3.300	1.400	450		
3		33.000	14.000	4.500		
4				45.000	10.000	300
5				450.000	100.000	3.000
6				4.500.000	1.000.000	30.000

## EU GMP-Guidelines

Class	Maximum number of particles			
	at rest		in operation	
	$\geq 0,5 \mu\text{m}^3$	$\geq 5,0 \mu\text{m}^3$	$\geq 0,5 \mu\text{m}^3$	$\geq 5,0 \mu\text{m}^3$
A	3.520	20	3.520	20
B	3.520	29	352.000	2.900
C	352.000	2.900	3.520.000	29.000
D	3.520.000	29.000	not determined	not determined







# Luminaires for beverage and food industry

## Surface-mounted luminaires

## Recessed luminaires

protection ▶ 76



peanut ▶ 106



planara ▶ 152



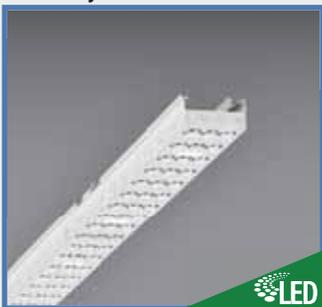
protection ▶ 170



## Quick-fit mounting system

## High bay and large area luminaires

SDT-System LED ▶ 294



SDT-System T5/T8 ▶ 406



worker ▶ 434



## Damp-proof luminaires

parsa ▶ 450



PU ▶ 454



PA ▶ 458



PC ▶ 458



# Foodstuffs

- a delicate matter





Luminaires which have a certificate of suitability according to DIN 10500 are equipped with this symbol.

# in production and trade



Food is a basic necessity of life. It is therefore not surprising that special requirements are in place when it comes to the production of foodstuffs of any kind. These requirements are meant to ensure that we can purchase foodstuffs and beverages of quite safe quality. When considering the risks, the entire production environment is therefore taken into account.

This is why as part of „Good Manufacturing Practices“ (GMP), which forms the basis for risk assessments in the production of medicinal products, foodstuffs and beverages, the lighting system must of course also be taken into consideration. In many cases, these risk assessments are performed in accordance with the „Hazard Analysis Critical Control Point“ (HACCP) procedure. In accordance with this procedure, the luminaires manufactured by us were also examined and assessed in regard to the food hygiene requirements of DIN 10500. Therefore on less challenge on the way to meet the high quality requirements.

Regiolux offers suitable lighting solutions for professional applications.

## Further information

in theme catalogue  
„Light solutions -  
for beverage and food industry“



Light solutions







# Luminaires for safety lighting



## Surface-mounted luminaires

procube ▶ 90



cubus ▶ 102



UA ▶ 111



wotek ▶ 114



lens basic ▶ 122



## Suspended luminaires

procube ▶ 47



## Recessed luminaires

teno ▶ 148



UE ▶ 189



SDT system LED ▶ 294



SDT system T5/T8 ▶ 380



## Quick-fit mounting system



# Application pictures

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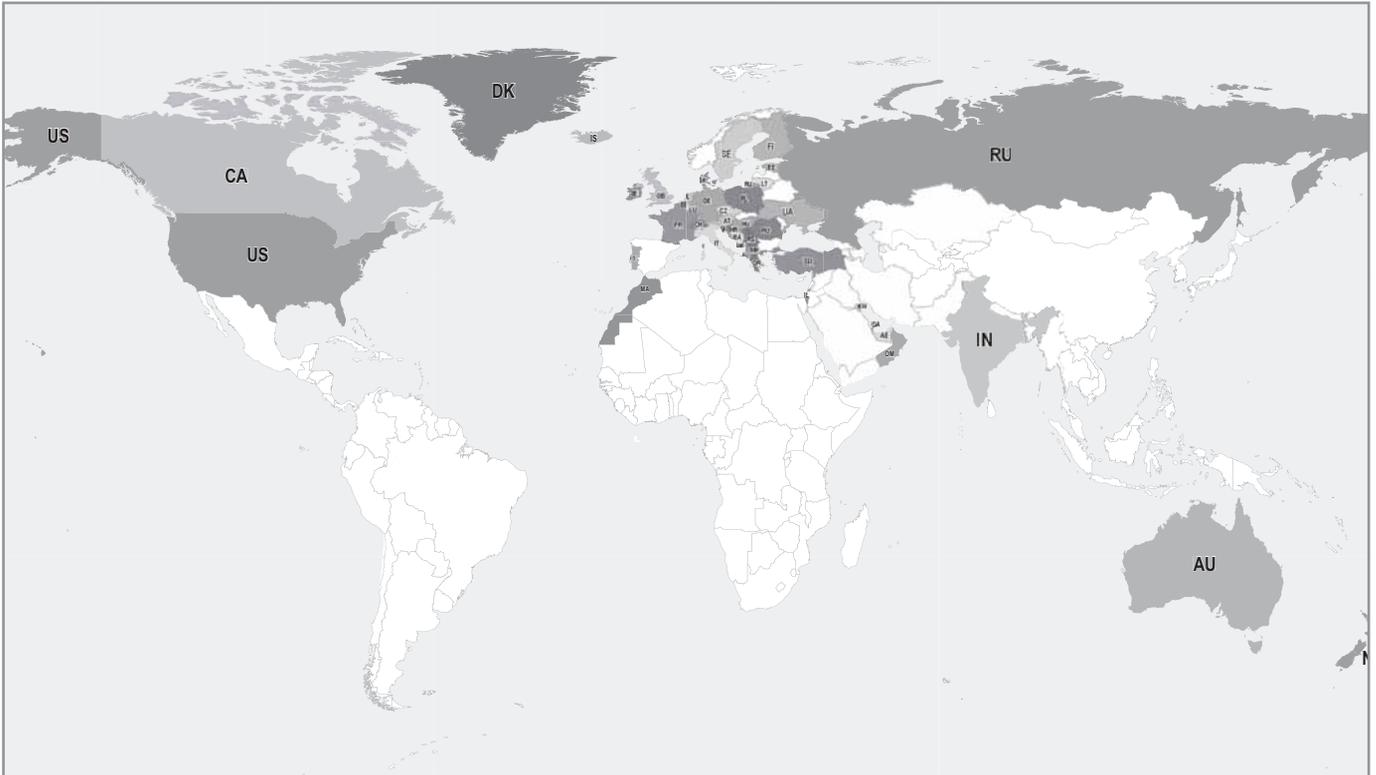
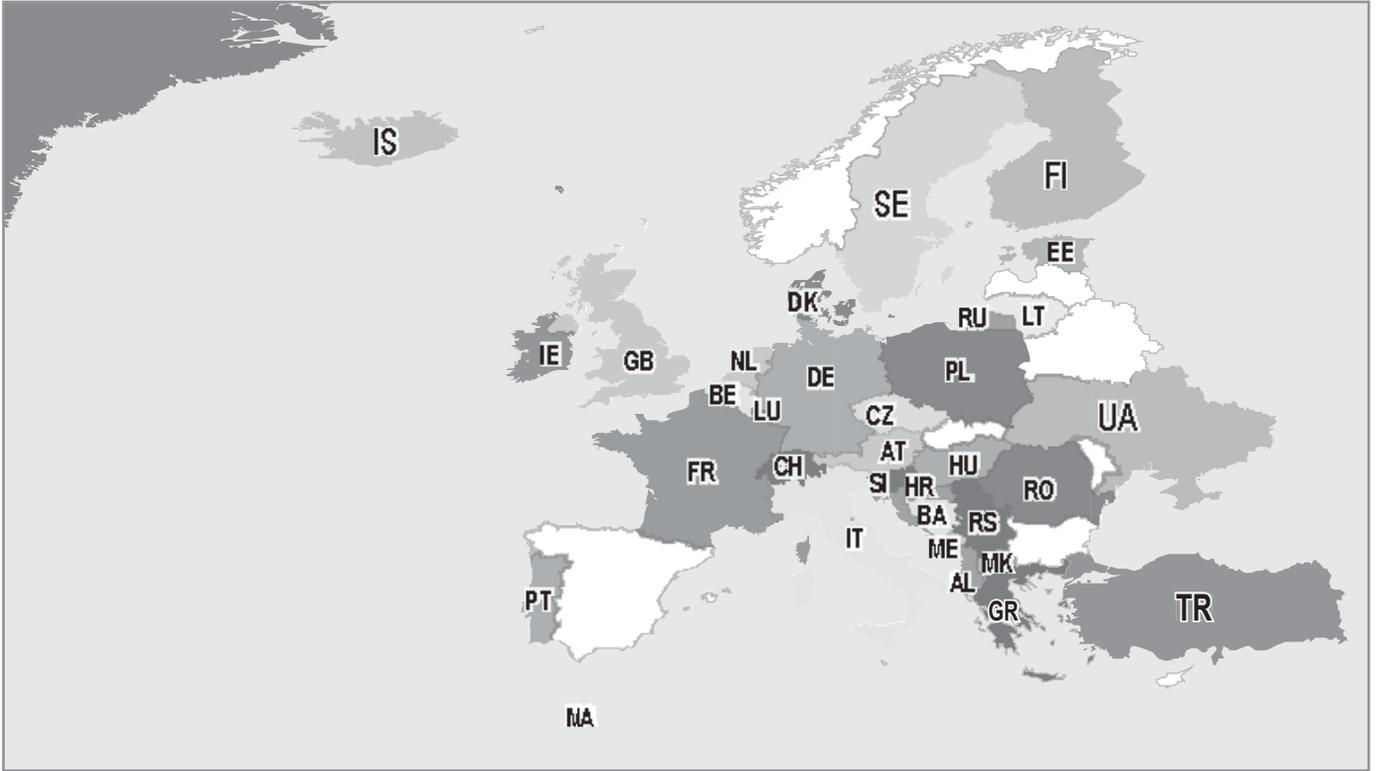
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